

CICS® Transaction Server for OS/390®



CICS Data Areas

Release 3

CICS® Transaction Server for OS/390®



CICS Data Areas

Release 3

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page ix.

Third edition (March 1999)

This edition applies to Release 3 of CICS Transaction Server for OS/390, program number 5655-147, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of product.

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Warning: Do not use this Diagnosis, Modification, or Tuning Information as a programming interface.

However, this book also documents General-use Programming Interface and Associated Guidance Information and Product-sensitive Programming Interface and Associated Guidance Information provided by CICS.

General-use programming interfaces allow the customer to write programs that obtain the services of CICS.

General-use Programming Interface and Associated Guidance Information is identified where it occurs by an introductory statement to a data area.

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Preface

What this book is about

This book lists the major data storage areas used by CICS®, and indicates the storage layout and usage of each area.

Who this book is for

This book is for anyone who needs to look at a CICS dump or trace:

- IBM® service personnel
- CICS system programmers
- CICS application programmers.

What you need to know to understand this book

It is assumed that you have an understanding of CICS. You need to know how data is represented in storage. To understand the general approach to CICS problem-solving, you should look at the *CICS Problem Determination Guide*. The *CICS Diagnosis Reference* includes a list of CICS modules and the data areas used by each.

How to use this book

You should use this reference book when you are trying to solve a problem with a CICS system.

This book includes the tables that define and control a CICS system and its resources, as well as input and output areas and work areas used by CICS functions and application programs. The contents may be determined at system generation or system initialization time, or they may be set dynamically while CICS is running.

Note: You may see references in this book to items that belong to other CICS products, such as CICS/DOS/VS, CICS/OS/VS, CICS/MVS®, CICS/ESA®, or CICS/VSE®. These items are in source used by all versions of CICS, and have no effect in this version.

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Subsequent updates will probably be available in softcopy before they are available in hardcopy. This means that at any time from the availability of a release, softcopy versions should be regarded as the most up-to-date.

For CICS Transaction Server books, these softcopy updates appear regularly on the *Transaction Processing and Data Collection Kit* CD-ROM, SK2T-0730-xx. Each reissue of the collection kit is indicated by an updated order number suffix (the -xx

part). For example, collection kit SK2T-0730-06 is more up-to-date than SK2T-0730-05. The collection kit is also clearly dated on the cover.

Updates to the softcopy are clearly marked by revision codes (usually a “#” character) to the left of the changes.

CICS Transaction Server for OS/390

| | |
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| <i>CICS Transaction Server for OS/390: Planning for Installation</i> | GC33-1789 |
| <i>CICS Transaction Server for OS/390 Release Guide</i> | GC34-5352 |
| <i>CICS Transaction Server for OS/390 Migration Guide</i> | GC34-5353 |
| <i>CICS Transaction Server for OS/390 Installation Guide</i> | GC33-1681 |
| <i>CICS Transaction Server for OS/390 Program Directory</i> | GC33-1706 |
| <i>CICS Transaction Server for OS/390 Licensed Program Specification</i> | GC33-1707 |

CICS books for CICS Transaction Server for OS/390

General

| | |
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| <i>CICS Master Index</i> | SC33-1704 |
| <i>CICS User's Handbook</i> | SX33-6104 |
| <i>CICS Glossary</i> (softcopy only) | GC33-1705 |

Administration

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| <i>CICS System Definition Guide</i> | SC33-1682 |
| <i>CICS Customization Guide</i> | SC33-1683 |
| <i>CICS Resource Definition Guide</i> | SC33-1684 |
| <i>CICS Operations and Utilities Guide</i> | SC33-1685 |
| <i>CICS Supplied Transactions</i> | SC33-1686 |

Programming

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| <i>CICS Application Programming Guide</i> | SC33-1687 |
| <i>CICS Application Programming Reference</i> | SC33-1688 |
| <i>CICS System Programming Reference</i> | SC33-1689 |
| <i>CICS Front End Programming Interface User's Guide</i> | SC33-1692 |
| <i>CICS C++ OO Class Libraries</i> | SC34-5455 |
| <i>CICS Distributed Transaction Programming Guide</i> | SC33-1691 |
| <i>CICS Business Transaction Services</i> | SC34-5268 |

Diagnosis

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| <i>CICS Problem Determination Guide</i> | GC33-1693 |
| <i>CICS Messages and Codes</i> | GC33-1694 |
| <i>CICS Diagnosis Reference</i> | LY33-6088 |
| <i>CICS Data Areas</i> | LY33-6089 |
| <i>CICS Trace Entries</i> | SC34-5446 |
| <i>CICS Supplementary Data Areas</i> | LY33-6090 |

Communication

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| <i>CICS Intercommunication Guide</i> | SC33-1695 |
| <i>CICS Family: Interproduct Communication</i> | SC33-0824 |
| <i>CICS Family: Communicating from CICS on System/390</i> | SC33-1697 |
| <i>CICS External Interfaces Guide</i> | SC33-1944 |
| <i>CICS Internet Guide</i> | SC34-5445 |

Special topics

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| <i>CICS Recovery and Restart Guide</i> | SC33-1698 |
| <i>CICS Performance Guide</i> | SC33-1699 |
| <i>CICS IMS Database Control Guide</i> | SC33-1700 |
| <i>CICS RACF Security Guide</i> | SC33-1701 |
| <i>CICS Shared Data Tables Guide</i> | SC33-1702 |
| <i>CICS Transaction Affinities Utility Guide</i> | SC33-1777 |
| <i>CICS DB2 Guide</i> | SC33-1939 |

CICSplex SM books for CICS Transaction Server for OS/390

General

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| <i>CICSplex SM Master Index</i> | SC33-1812 |
| <i>CICSplex SM Concepts and Planning</i> | GC33-0786 |
| <i>CICSplex SM User Interface Guide</i> | SC33-0788 |
| <i>CICSplex SM View Commands Reference Summary</i> | SX33-6099 |

Administration and Management

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| <i>CICSplex SM Administration</i> | SC34-5401 |
| <i>CICSplex SM Operations Views Reference</i> | SC33-0789 |
| <i>CICSplex SM Monitor Views Reference</i> | SC34-5402 |
| <i>CICSplex SM Managing Workloads</i> | SC33-1807 |
| <i>CICSplex SM Managing Resource Usage</i> | SC33-1808 |
| <i>CICSplex SM Managing Business Applications</i> | SC33-1809 |

Programming

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| <i>CICSplex SM Application Programming Guide</i> | SC34-5457 |
| <i>CICSplex SM Application Programming Reference</i> | SC34-5458 |

Diagnosis

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| <i>CICSplex SM Resource Tables Reference</i> | SC33-1220 |
| <i>CICSplex SM Messages and Codes</i> | GC33-0790 |
| <i>CICSplex SM Problem Determination</i> | GC33-0791 |

Other CICS books

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| <i>CICS Application Programming Primer (VS COBOL II)</i> | SC33-0674 |
| <i>CICS Application Migration Aid Guide</i> | SC33-0768 |
| <i>CICS Family: API Structure</i> | SC33-1007 |
| <i>CICS Family: Client/Server Programming</i> | SC33-1435 |
| <i>CICS Family: General Information</i> | GC33-0155 |
| <i>CICS 4.1 Sample Applications Guide</i> | SC33-1173 |
| <i>CICS/ESA 3.3 XRF Guide</i> | SC33-0661 |

Chapter 1. CICS® Transaction Server for OS/390® Data Areas

How the data areas are presented

The data areas are listed in alphabetical order of their shortened names. The shortened name usually, but not always, matches the first few characters of the data area name, disregarding the DFH prefix; for example DFHTCA is shortened to TCA. Some data areas are grouped together according to usage. If you do not find a data area under the expected short name, you should look in the table of contents or the index for the full name of the area or for the name of the macro or copy book that generates the area.

For each field in each data area, the following information is listed:

- The hexadecimal offset, in parentheses
- The data type and for bitstring values, the bit representation
- The length in bytes (decimal)
- The name (symbolic label)
- A brief description of the function

Where the name of a field is shown as an asterisk (*), the field is reserved.

Where bit settings are indicated, the symbolic labels that have been equated to the bit settings are given. These labels are used to refer to the numeric values in programs that use the data area, and are included in this book to help you understand the program listings. The offset given for one of these fields applies only to the symbolic label assigned to the field as a unit; it does not apply to the labels equated to bit settings (hex values).

Where a storage definition has a duplication factor, for example DCREGS (16), the length of the field is the length of each element of the storage. The total length of the storage is this length multiplied by the duplication factor which is shown in parentheses after the name.

For EQUATE statements, the operand is shown in quotation marks in the description.

Use of the index

- All fields are listed in the index at the back of this book.
- Each field name listed in the index is followed by:
 - the hexadecimal offset of the field, shown in parentheses,
 - If the field name applies to a bit value, this is indicated by the word **BIT** in place of the hexadecimal offset.
 - the field length, shown in square brackets,
 - the short name of the area in which it appears,
 - and the page number.

Use the index to find where this book shows the field that you are seeking, in a Data Area. Don't use the index for anything else — for example, you will probably not find enough information in the index to diagnose a problem.

AFCB Authorized function blocks

CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.
 DESCRIPTIVE NAME = CICS (SVC) Authorised Function Blocks.
 FUNCTION = AUTHORISED FUNCTION CONTROL BLOCK.

The CICS AFCB/AFT/AFCS structure consists of three types of control block:

1. The AFCS. One per CICS Address Space.
 Addressed from AFTAFCB.

2. The AFCB/AFT. One per authorised TCB.
 Addressed from TCBCAUF.

A(AFT) = A(AFCB)+AFLENG+OFFSET(AFLSTBEG)

LIFETIME = CICS Job.

STORAGE CLASS =

LOCATION =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

PRODUCT-SENSITIVE PROGRAMMING INTERFACE

The following field forms part of the Product-Sensitive

Programming Interface:

AFCSA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 224 | DFHAFCB | |
| (0) | CHARACTER | 4 | AFIDENT | Eyecatcher: 'AFCX' |
| (4) | UNSIGNED | 1 | AFVER | Version and Release level. |
| (5) | UNSIGNED | 1 | AFSVCNO | CICS SVC no. |
| (6) | HALFWORD | 2 | AFLENG | Length of the AF List vector. |
| (8) | ADDRESS | 4 | AFCSA | ADDRESS OF CICS CSA |
| (C) | ADDRESS | 4 | AFAICB | ADDRESS OF APPL INTERFACE BLOCK |
| (10) | CHARACTER | 208 | AFLSTBEG | START OF ENTRIES |
| (10) | ADDRESS | 4 | AFPF | PAGE FIX/FREE |
| (14) | ADDRESS | 4 | AFCHAIN | FIX/FREE RECORD CHAIN ANCHOR |
| (18) | ADDRESS | 4 | AFSRB | HPO SRB |
| (1C) | ADDRESS | 4 | AFHPSRB | TYPE 6 SVC ROUTINE - HPO SRB |
| (20) | ADDRESS | 4 | AFIRSVC | ADDRESS OF INTER-REGION SVC |
| (24) | ADDRESS | 4 | AFIRSUDB | Address of SUDB if logged on |
| (28) | ADDRESS | 4 | AFMON | MONITORING ROUTINE |
| (2C) | ADDRESS | 4 | AFMONCB | MONITORING CONTROL BLOCK ANCHOR |
| (30) | ADDRESS | 4 | AFSEC | SECURITY ROUTINE |
| (34) | ADDRESS | 4 | * | Security Anchor now in AFCS. |
| (38) | ADDRESS | 4 | AF7770 | ADDRESS OF THE 7770 ROUTINE |
| (3C) | ADDRESS | 4 | * | ..RESERVED |
| (40) | ADDRESS | 4 | AFDEQ | ADDRESS OF THE DEQ ROUTINE |
| (44) | ADDRESS | 4 | AFDEQCB | ADD. OF DEQ WORK BLOCK |
| (48) | ADDRESS | 4 | AFPXT | Old VSAM subtask postexit - |
| (4C) | ADDRESS | 4 | AFPXTXA | - keep for coexistence with 2.1 |
| (50) | ADDRESS | 4 | AFSKP | Subtask Manager Routine. |
| (54) | ADDRESS | 4 | * | ...Reserved. |
| (58) | ADDRESS | 4 | AFPSS | Spooler Routine. |
| (5C) | ADDRESS | 4 | AFPSSCB | Spooler Anchor. |
| (60) | ADDRESS | 4 | AFSDU | Old SDUMP. Keep for coexistence |
| (64) | ADDRESS | 4 | * | ...Reserved. |
| (68) | ADDRESS | 4 | AFXRF | Xrf Routine. |
| (6C) | ADDRESS | 4 | * | ...Reserved. |
| (70) | ADDRESS | 4 | AFINIT | AFCB Initial Authorisation. |
| (74) | ADDRESS | 4 | * | ...Reserved. |
| (78) | ADDRESS | 4 | AFINH | AFCB Inherit Authorisation. |
| (7C) | ADDRESS | 4 | * | ...Reserved. |
| (80) | ADDRESS | 4 | AFLODR | Loader Routine. |
| (84) | ADDRESS | 4 | * | ...Reserved. |
| (88) | ADDRESS | 4 | AFMFI | Monitoring Routine. |
| (8C) | ADDRESS | 4 | AFMFICB | Monitoring Auth Facil Anchor * |
| (90) | ADDRESS | 4 | AFSMR | Storage Management Routine |
| (94) | ADDRESS | 4 | * | ...Reserved. |
| (98) | ADDRESS | 4 | AFAPR | AP Domain Bind Routine. |
| (9C) | ADDRESS | 4 | * | ...Reserved. |
| (A0) | ADDRESS | 4 | AFDSP | Dispatcher Auth Facil routine |
| (A4) | ADDRESS | 4 | AFDSPTB | Dispatcher Auth block (DSAUTB) |
| (A8) | ADDRESS | 4 | AFDTSVC | Data Tables SVC routine |
| (AC) | ADDRESS | 4 | AFDTRGNP | Data Tables Region Anchor |
| (B0) | ADDRESS | 4 | AFXCINIT | INIT for EXCI environment |
| (B4) | ADDRESS | 4 | AFXCG | XCGLOBAL addr |
| (B8) | ADDRESS | 4 | AFXCSMDMP | SDUMP routine for EXCI |
| (BC) | ADDRESS | 4 | * | Reserved |
| (C0) | ADDRESS | 4 | AFKESVC | Kernel SVC |
| (C4) | ADDRESS | 4 | * | Reserved |
| (C8) | ADDRESS | 4 | AFDUSVC | Dump SVC |
| (CC) | ADDRESS | 4 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (D0) | ADDRESS | 4 | AFDMSVC | Domain mgr SVC |
| (D4) | ADDRESS | 4 | AFCBDMAN | DM ENF Anchor(-->DMAFS) |
| (D8) | ADDRESS | 4 | AFRXSVC | RX domain SVC routine |
| (DC) | ADDRESS | 4 | AFRXANCR | RX domain Anchor |
| (E0) | CHARACTER | | * | Ensure Double-Word length. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 16 | AFTSTART | Authorised Functions Trailer |
| (0) | HALFWORD | 2 | AFTLENG | Length of AFCB Trailer. |
| (2) | BITSTRING | 1 | AFTFLG1 | Flag Byte. |

NOTE that the following flag (AFTQR) been renamed from AFTMAIN, which indicated job-step from 3.1, but QR pre-3.1. It was never referenced from 3.1 and has now reverted to its original use

| | | | | |
|------|-----------|---|---------|------------------------------|
| | 1... .. | | AFTQR | AFT for the QR TCB |
| | .1.. .. | | AFTEXCI | AFCB belongs to an EXCI env |
| (3) | BITSTRING | 1 | * | Reserved |
| (4) | ADDRESS | 4 | AFTAFCS | Address of AFCS. |
| (8) | ADDRESS | 4 | AFTKTCB | Address of Kernel TCB Block. |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | CHARACTER | | * | Ensure Double-Word length. |

**AUTHORISED FUNCTION COMMON
 CONTROL BLOCK**

The authorised function common control block (AFCS) is used to control the authorised functions of the operating system. It is an anchor for the storage that can be shared by tasks using the CICS SVC paths. There is one AFCS per CICS address space. Each AFCB points to the single AFCS. Storage for the AFCS is obtained at initialization by DFHCSVC (MVS getmain from key 0 subpool 253), invoked from the Kernel.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|-----------------------------------|
| (0) | STRUCTURE | 136 | DFHAFCS | Auth Functions Common CB. |
| (0) | CHARACTER | 4 | AFCSID | Eye-catcher: 'AFCS' |
| (4) | UNSIGNED | 1 | AFCSVER | Version Number: 1, now. |
| (5) | BITSTRING | 1 | AFCS_FLAGS | Various Flags |
| | 1... .. | | AFCS_ARM_ REGISTERED | ARM register status |
| (6) | HALFWORD | 2 | AFCSLEN | Length of this Block. |
| (8) | ADDRESS | 4 | AFCSKCB | Kernel Anchor. |
| (C) | HALFWORD | 2 | AFCSCSVC | CICS Service SVC: X'0ANN'. |
| (E) | UNSIGNED | 1 | AFCSXRFD | -0 => Some WTI Services Disabled |
| (F) | UNSIGNED | 1 | AFCS_CICS_KEY | CICS key N in X'NO' format |
| (10) | ADDRESS | 4 | AFCSSEC | Security Block Anchor. |
| (14) | ADDRESS | 4 | AFCSDSP | Dispatcher global anchor (DSAUSB) |
| (18) | ADDRESS | 4 | AFCSCSAA | AP Domain CSA Address. |
| (1C) | CHARACTER | 8 | AFCSGAPD | Generic Applid. |
| (24) | CHARACTER | 8 | AFCSAPD | Specific Applid. |
| (2C) | CHARACTER | 8 | AFCSCLTN | CLT Name. |
| (34) | ADDRESS | 4 | AFCSMFI | Monitoring Block Anchor. |
| (38) | CHARACTER | 8 | AFCSAXIN | Alternate Xrf Ids Table Name |
| (40) | ADDRESS | 4 | AFCSDXHP | -> DXH (SM domain) |
| (44) | ADDRESS | 4 | AFCSDMAN | -> DFHDMAFS (ENF anchor) |
| (48) | BITSTRING | 4 | AFCSCTKN | MVS WLM Connect token |
| (4C) | ADDRESS | 4 | AFCS_CEECTCB | A(CEECTCB (LE init module))@LJC |
| (50) | FULLWORD | 4 | * | reserved |
| (54) | FULLWORD | 4 | * | reserved |
| (58) | FULLWORD | 4 | * | reserved |
| (5C) | FULLWORD | 4 | * | reserved |
| (60) | FULLWORD | 4 | * | reserved |
| (64) | FULLWORD | 4 | * | reserved |
| (68) | FULLWORD | 4 | * | reserved |
| (6C) | FULLWORD | 4 | * | reserved |
| (70) | FULLWORD | 4 | * | reserved |
| (74) | FULLWORD | 4 | * | reserved |
| (78) | FULLWORD | 4 | * | reserved |
| (7C) | FULLWORD | 4 | * | reserved |
| (80) | ADDRESS | 4 | * | reserved |
| (84) | ADDRESS | 4 | * | reserved |
| (88) | CHARACTER | | * | alignment |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------|--|
| 1 | DECIMAL | 1 | AFVER1 | AFCB version (Field AFVER) - CICS 1.7, 2.1 |
| 1 | DECIMAL | 2 | AFVER2 | AFCB version (Field AFVER) - CICS 3.1 |

AFCT Application file control table

CONTROL BLOCK NAME = DFHAFCTP
 DESCRIPTIVE NAME = CICS/ESA Application File Control Table.
 FUNCTION =
 Definition of a file to AP.
 The AFCT belongs to the AP domain. It defines local and remote files that application programs can use.
 There is one entry per file.
 Each AFCT entry (AFCTE) for a LOCAL file has a corresponding entry in the FCT owned by File Control.
 AFCTEs for REMOTE files do not have FCT entries.
 LIFETIME =
 Created by DFHFRCRP during initialization from either the assembled FCT or the definition on the catalog.
 Also created / updated by RDO INSTALL of file definition by DFHAFMT.
 STORAGE CLASS =
 File Control general above the line subpool.
 LOCATION =
 By DFHAFMTM FUNCTION(INQUIRE_FILE) call to DFHAFMT.
 Located Internally by DFHFCEI in file request processing.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 Application File Control Table Entry

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 88 | DFHAFCTE | AFCT definition |
| Common part of table entry | | | | |
| (0) | CHARACTER | 32 | AFCTCOMM | |
| (0) | CHARACTER | 8 | AFCTEID | Block identifier - >AFCTE< |
| (0) | CHARACTER | 8 | AFCTEGRP | (RDO GROUP name at assembly) |
| (8) | CHARACTER | 8 | AFCTNAME | Local name of file |
| (10) | HALFWORD | 2 | AFCTELEN | Length of this entry |
| File status information | | | | |
| (12) | BITSTRING | 1 | AFCTSTAT | Status byte |
| | 1... .. | | AFCTREMT | REMOTE indicator |
| | .1. | | * | reserved |
| | ..1. | | * | reserved |
| | ...1 | | * | reserved |
| | 1... | | * | reserved |
| |1.. | | * | reserved |
| |1. | | * | reserved |
| |1 | | * | reserved |
| (13) | UNSIGNED | 1 | * | Reserved |
| Local file token | | | | |
| (14) | CHARACTER | 8 | AFCTCNCT | FC_CONNECT_TOKEN |
| (14) | ADDRESS | 4 | AFCTCNCP | Pointer part of token |
| (18) | FULLWORD | 4 | AFCTCNCP | Count part of token |
| (1C) | FULLWORD | 4 | * | Reserved |
| End of common part of table entry Remote file information extension | | | | |
| (20) | CHARACTER | 56 | AFCTRMTE | Remote AFCT overlay |
| (20) | CHARACTER | 8 | AFCTRNAM | Name of file on remote system |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------------|------------|-----|-----------------|--|
| (28) | CHARACTER | 4 | AFCTRSYS | Name of remote system |
| Statistics fields | | | | |
| (2C) | FULLWORD | 4 | AFCTRDEL | Number of deletes |
| (30) | FULLWORD | 4 | AFCTREAD | Number of reads |
| (34) | FULLWORD | 4 | AFCTGETU | Number of get updates |
| (38) | FULLWORD | 4 | AFCTWRA | Number of adds |
| (3C) | FULLWORD | 4 | AFCTWRU | Number of updates |
| (40) | FULLWORD | 4 | AFCTBRWS | Number of browses |
| (44) | FULLWORD | 4 | AFCTBRWU | Number of upd. browses |
| Data information for remote transfer | | | | |
| (48) | HALFWORD | 2 | AFCTRRSZ | Record size |
| (4A) | UNSIGNED | 1 | AFCTRKLN | Key length |
| (4B) | BITSTRING | 1 | * | Flags |
| | 1... .. | | AFCT_NOT_AUTH | Last CONNECT attempt failed with 'not authorised' |
| | .1.. .. | | AFCT_OPEN | Connected to remote SDT |
| | ..1. | | AFCT_CONN_FAIL | Last CONNECT attempt failed - retry later. |
| | ...1 | | AFCT_LINK_FAIL | Last CONNECT attempt failed link security check |
| | 1... | | AFCT_408_ISSUED | Message 0408 issued - shipped request was successful |
| |1.. | | AFCT_408_NEEDED | Message 0408 needed if shipped request is successful |
| |1. | | AFCT_FORCE | Force users off |
| |1 | | * | Reserved |
| (50) | CHARACTER | 8 | AFCT_STCK | Value of shared table |
| (50) | UNSIGNED | 4 | AFCT_LH_STCK | clock at last CONNECT attempt. |
| (54) | CHARACTER | 4 | AFCT_LINK_ERROR | CONNECT link fail error |

Constants

| Len | Type | Value | Name | Description |
|-----------------------------|-----------|---------|---------------|-------------|
| 2 | DECIMAL | 32 | AFCTELLN | |
| Length of remote file entry | | | | |
| 2 | DECIMAL | 88 | AFCTERLN | |
| Control block id | | | | |
| 8 | CHARACTER | >AFCTE< | AFCT_ENTRY_ID | Eye catcher |

AID Automatic initiate descriptor

```

CONTROL BLOCK NAME = DFHAIDDS
DESCRIPTIVE NAME = CICS Automatic Initiate Descriptor (AID).
FUNCTION =
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) = None

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 148 | DFHAIDDS | AID control block |
| (0) | CHARACTER | 16 | AIDPRFX | AID prefix |
| (0) | UNSIGNED | 2 | AIDLEN | AID length |
| (2) | CHARACTER | 6 | AIDBLKID | Eye-catcher ('>DFHAP') |
| (8) | CHARACTER | 8 | AIDBLKNM | Control block name ('AID') |
| (10) | CHARACTER | 132 | AIDBODY | AID body |
| (10) | ADDRESS | 4 | AIDCHNF | Forward chain pointer |
| (14) | ADDRESS | 4 | AIDCHNB | Backward chain pointer |
| (18) | CHARACTER | 124 | AIDDATA | AID data |

Substructure of AIDDATA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|---|
| (18) | STRUCTURE | 128 | AIDDATA_STRUCTURE | |
| (18) | CHARACTER | 4 | AIDTRMID | Terminal id |
| (1C) | CHARACTER | 4 | AIDTRNID | Transaction identification |
| (20) | CHARACTER | 1 | * | Reserved |
| (21) | CHARACTER | 4 | AIDSHSYS | Shipped via sysid |
| (25) | CHARACTER | 4 | AIDCURTR | Current terminal id |
| (29) | CHARACTER | 4 | AIDDEST | TD destination |
| (2D) | CHARACTER | 1 | AIDTYPE | Type of AID |
| (2E) | BITSTRING | 1 | AIDSTATI | AID status indicator |
| | 1... .. | | AIDPRIV | AID is for privileged allocate |
| | .1.. .. | | AIDSENT | This AID has been sent to TOR |
| | ..1. | | AIDCANCL | Cancel remote AID |
| | ...1 | | AIDROUTP | AID not yet routed to AOR |
| | 1... | | AIDSHIPD | Prevent duplicate send to tor |
| |1.. | | AIDREMX | AID for a remote transaction |
| |1. | | AIDREMT | AID for a remote terminal |
| |1 | | AIDSTTSK | Task initiated |
| (2F) | CHARACTER | 1 | * | Reserved |
| (30) | ADDRESS | 4 | AIDTCTA | TCTTE address |
| (30) | ADDRESS | 4 | AIDTCTSA | Skeleton TCTTE addr if terminal remotely owned |
| (34) | CHARACTER | 8 | AIDDATID | Data identification |
| (34) | CHARACTER | 2 | * | Request id |
| (36) | CHARACTER | 1 | * | x'FD' for BMS |
| (37) | CHARACTER | 4 | AIDMCRID | MCR identifier |
| (37) | CHARACTER | 3 | AIDMSGID | Msg identifier |
| (3A) | CHARACTER | 1 | AIDTC | Terminal code |
| (3B) | CHARACTER | 1 | * | Reserved |
| (3C) | CHARACTER | 8 | AIDOVLY | overlay area |
| (3C) | CHARACTER | 8 | AIDNETSY | Netname/Sysid from XICTENF exit |
| (3C) | CHARACTER | 8 | AIDNETNM | Netname from XICTENF exit (from ICP to ALP via ICE) |
| (3C) | CHARACTER | 8 | * | Reserved |
| (3C) | CHARACTER | 4 | * | Reserved |
| (40) | CHARACTER | 4 | AIDSYSID | Sysid from XICTENF exit (from ICP to ALP via ICE) |
| (3C) | CHARACTER | 8 | * | AIDOVLY when AIDTYPE = AIDISC |
| (3C) | ADDRESS | 4 | AIDTCAA | Address of suspended TCA |
| (40) | CHARACTER | 4 | * | Reserved |
| (44) | CHARACTER | 8 | AIDMODEN | LU6.2 mode name |
| (4C) | CHARACTER | 1 | AIDTR | Transaction routing indicator |
| (4D) | CHARACTER | 1 | AIDFS | Function shipping indicator |
| (4E) | BITSTRING | 1 | AIDFLAGS | Flags |
| | 1... .. | | AIDSZ | Startcode SZ for FEPI |
| | .1.. .. | | AIDNPUR | Non purgeable allocate aid |
| | ..1. | | AIDPURGD | Aid purged |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|-----------------------|---|
| | 1... | | AIDDYNTR | Dynamic transaction |
| | 1... | | AIDRECOV | PUT AID with recoverable TS data |
| |1.. | | AIDCRSRT | CRSR rescheduling bit |
| |1. | | AID_REROUTED | Aid is being rerouted to another TOR |
| |1 | | AIDRTST | Routable start |
| (4F) | UNSIGNED | 1 | * | Reserved |
| (50) | CHARACTER | 4 | AIDSYST | System id of first system in route to terminal owner (usually = terminal owner) |
| (54) | CHARACTER | 4 | AIDTIMST | Time stamp |
| (58) | CHARACTER | 4 | AIDSYSX | System id of first system in route to transaction owner (usually = transaction owner) |
| (5C) | BITSTRING | 1 | AIDVER | Verification flags for aid |
| | 1... | | AIDVERUN | Unchained |
| | .1.. | | AIDVERFR | Freed aid's storage |
| | ..11 1111 | | * | Reserved |
| (5D) | CHARACTER | 8 | AID_TERMINAL_ NETNAME | Netname of target term |
| (65) | CHARACTER | 8 | AID_TOR_ NETNAME | Netname of TOR |
| (6D) | CHARACTER | 8 | AID_TOR_ NETNAMEO | Original TOR netname |
| (76) | HALFWORD | 2 | AID_START_ DATA_ LEN | Start data length |
| (78) | CHARACTER | 17 | * | Reserved |
| (8C) | CHARACTER | 12 | AIDVDATA | Variant structure, depending on AIDTYPE |
| (8C) | CHARACTER | 12 | AIDBMS_ STRUCTURE | AIDVDATA when AIDTYPE=AIDBMS |
| (8C) | BITSTRING | 1 | AIDDOCTYP | Type of operator check reqd |
| | 1111 11.. | | * | Reserved |
| |1. | | AIDOCCL | Check operator class |
| |1 | | AIDOCID | Check operator id |
| (8D) | CHARACTER | 3 | AIDOPCHK | Operator check field |
| (90) | CHARACTER | 4 | AIDBMSTS | BMS time stamp |
| (94) | BITSTRING | 1 | AIDBMSCC | BMS control information |
| | 1... | | AIDBMSMT | Message title is present |
| | .111 1111 | | * | Reserved |
| (95) | CHARACTER | 3 | * | Reserved |
| (8C) | CHARACTER | 12 | AIDCRRD_ STRUCTURE | AIDVDATA when AIDTYPE=AIDCRRD |
| (8C) | CHARACTER | 8 | AIDNETNA | Netname |
| (94) | CHARACTER | 4 | * | Reserved |
| (8C) | CHARACTER | 12 | AIDPUT_ STRUCTURE | AIDVDATA when AIDTYPE = AIDPUT |
| (8C) | CHARACTER | 8 | * | Reserved |
| (94) | ADDRESS | 4 | AID_TRANNUM | TRANNUM of transaction that has been attached for this AID |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------|--------------------------|
| 4 | DECIMAL | 148 | AIDAD | AID length |
| Possible values of AIDTYPE | | | | |
| 1 | HEX | 80 | AIDBMS | BMS - schedule request |
| 1 | HEX | 50 | AIDPUT | PUT - start with data |
| 1 | HEX | 40 | AIDINT | INT - start without data |
| 1 | HEX | 10 | AIDTDP | TDP - schedule request |
| 1 | HEX | 08 | AIDISC | ISC - allocate request |
| 1 | HEX | 04 | AIDCRRD | REMDL - remote delete |
| Values used in DFHIC get wait requests | | | | |
| 1 | DECIMAL | 0 | AID_GW_DATA | Resumed due to new data |
| 1 | DECIMAL | 4 | AID_GW_SHUTDOWN | Resumed due to shutdown |

APLI Program language block

This copybook contains the declarations for the Program Language Block.

CONTROL BLOCK Name = DFHLILBC
 DESCRIPTIVE NAME = CICS Program Language Block
 This Copy Book describes the Program Language Block
 FUNCTION = Holds Language details needed during the running of an application program.
 LIFETIME = Task
 Storage CLASS = CICS.
 Notes :
 Dependencies = S/370
 Restrictions =
 Module Type = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|---|
| (0) | STRUCTURE | 68 | PLB | |
| (0) | CHARACTER | 8 | PLB_PROGRAM_NAME | |
| (8) | FULLWORD | 4 | PLB_USE_COUNT | |
| (C) | CHARACTER | 1 | PLB_SUNDRY_FLAGS | |
| (C) | BITSTRING | 1 | * | |
| | 1... .. | | PLB_DYING | |
| | .1. | | PLB_DATALOC_ ANY | datalocation any applies |
| | ..1. | | PLB_EXECKEY_ CICS | execution key = cics |
| | ...1 | | PLB_AMODE31 | program is amode 31 |
| | 1... | | PLB_ENQ_LOCK | ENQ lock is active |
| |1.. | | PLB_JVM | program runs under Java Virtual Machine |
| |1. | | PLB_JVM_DEBUG | JVM debug |
| |1 | | * | reserved |
| (D) | CHARACTER | 1 | PLB_USERS_ LANGUAGE | lang as defined by user |
| (E) | CHARACTER | 2 | PLB_PROGRAM_MODE | TCB mode for program |
| (10) | ADDRESS | 4 | PLB_LOAD_POINT | |
| (10) | ADDRESS | 4 | PLB_JVM_ CLASS_PTR | address of class data for JVM programs |
| (14) | ADDRESS | 4 | PLB_ENTRY_POINT | |
| (18) | FULLWORD | 4 | PLB_PROGRAM_ LENGTH | |
| (1C) | CHARACTER | 28 | PLB_PGMINFO2 | ERTLI program extension |
| (1C) | FULLWORD | 4 | PLB_PGRINLEN | ERTLI extension length |
| (20) | CHARACTER | 4 | PLB_RWA31 | 31bit run-unit w/a length |
| (20) | BITSTRING | 1 | * | |
| | 1... .. | | PLB_RWA31_ ABOVE | ON=31-bit stg reqd (C/370) |
| (21) | UNSIGNED | 3 | PLB_RWA31_LEN | |
| (24) | FULLWORD | 4 | PLB_RWA24 | 24bit run-unit w/a length |
| (28) | CHARACTER | 4 | PLB_LANGUAGE | language flags |
| (28) | BITSTRING | 1 | PLB_LANG1 | |
| | 1... .. | | PLB_CEE_ ENABLED | |
| | .1. | | PLB_LANGUAGE_ KNOWN | |
| | ..1. | | PLB_MIXED_ LANGUAGE | |
| | ...1 | | PLB_COMPATIBILITY | |
| | 1... | | PLB_CEE_ EXECUTABLE | |
| |1.. | | PLB_ASSEMBLER | |
| |1. | | PLB_C370 | |
| |1 | | PLB_COBOL2 | |
| (29) | BITSTRING | 1 | PLB_LANG2 | |
| | 1... .. | | PLB_OSCOBOL | |
| | .1. | | PLB_PLI | |
| | ..11 1111 | | * | reserved |
| (2A) | BITSTRING | 1 | * | reserved |
| (2B) | BITSTRING | 1 | * | reserved |
| (2C) | FULLWORD | 4 | PLB_MEMID | language member id |
| (30) | ADDRESS | 4 | PLB_GLOBAL_ OPTIONS | |
| | | | | addr of CEECOPT |
| (34) | ADDRESS | 4 | PLB_USER_ OPTIONS | addr of CEEUOPT |
| (38) | CHARACTER | 12 | OSCOBOL_ EXTENSION | |
| (38) | UNSIGNED | 2 | PLB_TGT_SIZE | size of Task Global Table |
| (3A) | UNSIGNED | 2 | PLB_TGT_WS_SIZE | size of Task Global Table + Working Storage |
| (3C) | ADDRESS | 4 | PLB_TGT_ADDRESS | original TGT address |
| (40) | HALFWORD | 2 | PLB_BLL_ CELL_DISP | offset to 1st BLL cell |
| (42) | CHARACTER | 2 | PLB_OSCOBOL_ VERSION | compiler version |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | 257 | PLB_JVM_CLASS | |
| (0) | HALFWORD | 2 | PLB_JVM_CLASS_LENGTH | |
| (2) | CHARACTER | 255 | PLB_JVM_CLASS_DATA | |

APSTG Application domain global statistics

CONTROL BLOCK NAME = DFHAPSTG
 DESCRIPTIVE NAME = CICS AP Statistics Global Storage Block
 FUNCTION = This control block contains the time at which AP domain statistics were last reset and also a map of statistics resource types, statistics modules, module entry points and module status to enable DFHAPST to manage the collection of statistics in the AP domain.

This module is part of the APPLICATION DOMAIN (AP).
 This control block is created the first time that DFHAPST is called to perform a statistics function in the AP domain. The control block persists until CICS is shutdown (whether literally or 'logically' via the 'end-of-day' command).

LIFETIME = This control block is created by DFHAPST the first time it is called. The control block is not explicitly deleted by DFHAPST but the pointer to it is lost when CICS is terminated.

STORAGE CLASS = n/a
 LOCATION = The address field CSAAPSTG in the CSAOPFL points to the beginning of this control block.
 INNER CONTROL BLOCKS = none

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = n/a
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

AP STATISTICS GLOBAL STORAGE BLOCK, consists of:
 Standard header tag so that the block can be found in storage.

Last-reset-time field which contains the time in MVS STCK format when statistics counters in the AP domain were last reset.

A map of:
 Restype---->
 Module---->
 Entry point---->
 Status

The map relates resource types to the modules that access the statistics for those resource types and to an entry point for the module and to a status which shows whether statistics for that resource type/id are available.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-------|-----------------------------|-------------|
| (0) | STRUCTURE | 14600 | APST_GLOBAL_STORAGE | |
| (0) | CHARACTER | 16 | STORAGE_PREFIX | |
| (0) | HALFWORD | 2 | STORAGE_LENGTH | |
| (2) | CHARACTER | 1 | STANDARD_ARROW | |
| (3) | CHARACTER | 3 | STANDARD_DFH | |
| (6) | CHARACTER | 2 | STORAGE_DOMAIN_ID | |
| (8) | CHARACTER | 8 | STORAGE_BLOCK_NAME | |
| (10) | CHARACTER | 8 | AP_LAST_RESET_TIME | |
| (18) | CHARACTER | 24 | RESOURCE_STATE_MAP | |
| | | | (10) | |
| (18) | CHARACTER | 8 | RESOURCE_NAME | |
| (20) | CHARACTER | 8 | RESOURCE_MODULE | |
| (28) | ADDRESS | 4 | RESOURCE_MODULE_ENTRY_POINT | |
| (2C) | BITSTRING | 1 | RESOURCE_STATUS | |
| (108) | CHARACTER | 14336 | STATS_BUFFER_LARGE | |

Constants

| Len | Type | Value | Name | Description |
|--|-----------|----------|------------------------|-------------|
| 1 | CHARACTER | > | ARROW | |
| Resource names are <=8 char, padded to 8 char with blanks Module names are <=8 char, padded to 8 char with blanks Status of resource type/id can be one of the following | | | | |
| 1 | BIT | 00000000 | NO_STATS_AVAILABLE | |
| 1 | BIT | 01000000 | ID_STATS_UNAVAILABLE | |
| 1 | BIT | 10000000 | TYPE_STATS_UNAVAILABLE | |
| 1 | BIT | 11000000 | ALL_STATS_AVAILABLE | |
| These two variables are used to define the storage required for the AP stats control block. They are used in the call to Storage Domain to obtain the storage. | | | | |
| 8 | CHARACTER | APSTGBST | CONTROL_BLOCK_NAME | |
| 2 | DECIMAL | 14600 | CONTROL_BLOCK_LENGTH | |
| Total number of mappings is the number of resources in the AP domain for which statistics are collected. | | | | |
| 2 | DECIMAL | 10 | TOTAL_MAPPINGS | * |
| Offsets in mapping used for module loading optimisation. | | | | |
| 2 | DECIMAL | 6 | TERMINAL_MAP_OFFSET | * |
| 2 | DECIMAL | 8 | VTAM_MAP_OFFSET | * |

APXDC Application domain trandef extension

CONTROL BLOCK NAME = DFHAPXDC
 DESCRIPTIVE NAME = CICS (AP) Transaction definition extension
 FUNCTION = This copybook describes the AP domain transaction definition related control block.

This copy book describes the control block which is anchored from the AP domain token in the transaction definition. The main purpose of the control block is to allow AP domain to optimize AP actions at attach/detach.

There will be one instance of this control block for every transaction definition instance in the region.

LIFETIME = associated with a transaction definition instance
 STORAGE CLASS = SUBPOOL(CSAAPXDS)
 CICS key, 31 bit, Fixed length

LOCATION = This control block addressed via the first word in the AP domain transaction definition related token and can be addressed using the DFHMXDI macro.

INNER CONTROL BLOCKS = none

NOTES :

DEPENDENCIES = S/390
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|--------------------------------|
| (0) | STRUCTURE | 72 | DFHAPXDC | AP trandef extension |
| (0) | CHARACTER | 16 | APXD_EYE | Standard eye catcher |
| (0) | HALFWORD | 2 | APXD_EYE_LEN | control block length |
| (2) | CHARACTER | 14 | APXD_EYE_NAME | >DFHAP_APXD |
| (10) | FULLWORD | 4 | APXD_COUNT | check count for serviceability |
| (14) | BITSTRING | 1 | APXD_FLAGS1 | Various flags |
| | | | APXD_CEE_ENABLED | Txn uses CEE work area |
| | | | APXD_TDLA | Txn uses taskdata(only) |
| (15) | BITSTRING | 1 | * | Reserved |
| (16) | UNSIGNED | 2 | APXD_USTG_SIZE | total size of AP_USER_TXN |
| (18) | CHARACTER | 8 | APXD_SUBPOOL | TCA subpool token |
| (20) | CHARACTER | 8 | APXD_PPF | Profile area |
| (20) | UNSIGNED | 4 | APXD_PPF_CHANGECOUNT | |
| | | | | validation counter |
| (24) | ADDRESS | 4 | APXD_PPF_PTR | profile address |
| (28) | CHARACTER | 8 | APXD_TRPPF | Tran routing profile area |
| (28) | UNSIGNED | 4 | APXD_TRPPF_CHANGECOUNT | |
| | | | | validation counter |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------------|--------------------------------|
| (2C) | ADDRESS | 4 | APXD_TRPPF_PTR | profile address |
| (30) | CHARACTER | 8 | APXD_TCTS | Tran routing tcse area |
| (30) | UNSIGNED | 4 | APXD_TCTS_ CHANGECOUNT | |
| | | | | validation counter |
| (34) | ADDRESS | 4 | APXD_TCTS_PTR | TCSE address |
| (38) | CHARACTER | 8 | APXD_D2_TOKEN | CICS/DB2 token |
| (38) | UNSIGNED | 4 | APXD_D2_TOKEN_COUNT | |
| | | | | validation counter |
| (3C) | ADDRESS | 4 | APXD_D2_TOKEN_PTR | RCTE addr (entry\|pool\|cmd)@L1A |
| (40) | CHARACTER | 8 | APXD_RUWA_TOKEN | LE ruwa token |
| (40) | UNSIGNED | 4 | APXD_RUWA_ONESIZE | size of one ruwa |
| (44) | UNSIGNED | 4 | APXD_RUWA_POOLSIZ | size of ruwa pool |
| (48) | CHARACTER | * | | end |

ATD Attach table

| |
|--|
| CONTROL BLOCK NAME = DFHXTSPS DESCRIPTIVE NAME = CICS (TERMSHR) TRANSFORMER FUNCTION = DSECT for PLAS callers of DFHXTSP LIFETIME = Same as lifetime of caller's stack storage STORAGE CLASS = STACK LOCATION = In stack-storage of XTP's caller INNER CONTROL BLOCKS = NOTES : DEPENDENCIES = S/370 RESTRICTIONS = MODULE TYPE = Control block definition EXTERNAL REFERENCES = DATA AREAS = CONTROL BLOCKS = GLOBAL VARIABLES (Macro pass) = |
|--|

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 124 | DFHXTSPS | |
| (0) | CHARACTER | | XTSTART | |
| (0) | CHARACTER | | XTSBEGIN | |
| (0) | ADDRESS | 4 | XTSATTEL | ADDR OF TCTTE TO BE USED FOR THIS CONVERSATION |
| (4) | ADDRESS | 4 | XTSATIOA | ADDR OF TIOA FOR REQUEST TO BE SHIPPED ACROSS LINK |
| (8) | ADDRESS | 4 | XTSATTES | ADDR OF SURROGATE TCTTE |
| (8) | ADDRESS | 4 | XTSATTEU | ADDR OF USERS TCTTE |
| (C) | ADDRESS | 4 | XTSMCRA | ADDRESS OF MCR |
| (10) | ADDRESS | 4 | XTSLUCPL | Address of LUC parameter list |
| (14) | CHARACTER | 6 | * | |
| (14) | ADDRESS | 4 | XTSINBPS | -> ZC BPS FOR INSTALL |
| (14) | CHARACTER | 6 | XTSPAGDS | PAGE DATA |
| (14) | ADDRESS | 4 | XTSPAGDA | ADDRESS OF PAGE DATA |
| (18) | CHARACTER | 2 | XTSPLDCM | LDC mnemonic for BMS page |
| (1C) | CHARACTER | 2 | XTSLDCM | LDC mnemonic for non BMS |
| (1E) | CHARACTER | 1 | XTSFORMN | TRANSFORMATION REQUIRED |
| (1F) | BITSTRING | 1 | XTSRQFRM | REQUEST FORMAT |
| (20) | CHARACTER | 31 | XTSRTEDS | ROUTE DATA |
| (20) | ADDRESS | 4 | XTSTTLA | ADDRESS OF TITLE |
| (24) | ADDRESS | 4 | XTSRTELA | ADDRESS OF ROUTE LIST |
| (28) | CHARACTER | 2 | XTSREQID | BMS REQUEST ID |
| (2A) | CHARACTER | 12 | XTSFQERT | FULLY QUALIFIED TERMINAL ID OF BMS ERROR TERMINAL (IE NETNAME.TERMID) |
| (36) | CHARACTER | 2 | XTSETLDC | BMS ERRTERM LDC |
| (38) | CHARACTER | 2 | XTSMCFL | MESSAGE CONTROL FLAGS |
| (38) | BITSTRING | 1 | XTSMCFL1 | MESSAGE CONTROL FLAGS 1 |
| | 1... .. | | XTSRELSE | CTRL=RELEASE, OVERLAYS TITLE |
| | .1. | | XTSWBCUR | WRBRK=CURRENT, EQU MCRWBCUR. |
| | ..1. | | XTSWBALL | WRBRK=ALL, EQU MCRWBALL. |
| | ...1 | | XTSEODOP | EODPURG=OPER, EQU MCREODOP. |
| | 1... | | XTSPAGE | CTRL=PAGING, EQU MCRPAGE. |
| |1.. | | XTSAUTOP | CTRL=AUTOPAGE, EQU MCRAUTOP. |
| |1. | | * | |
| |1 | | XTSRTAIN | CTRL=RETAIN, EQU MCRRTAIN. |
| (39) | BITSTRING | 1 | XTSMCFL2 | MESSAGE CONTROL FLAGS 2 |
| | 1... .. | | * | |
| | .1. | | * | |
| | ..1. | | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... | | * | |
| | 1... | | XTSSCSA | ALTERNATE SCREEN SIZE USED, EQU MCRSCSA. |
| | 1.. | | * | |
| |1. | | XTSBMSSM | BMS SYSTEM MESSAGE, EQU MCRBMSSM. |
| |1 | | * | |
| (3A) | BITSTRING | 1 | XTSMCTRL | FLAGS FOR TCAMSTR6 |
| (3B) | BITSTRING | 1 | XTSRSVD | RESERVED |
| (3C) | CHARACTER | 3 | XTSOCL | OPERATOR CLASS |
| (3F) | CHARACTER | 4 | XTSSYSID | |
| (43) | CHARACTER | 6 | XTSTPOS1 | COPY OF TCATPOS1 etc. |
| (49) | CHARACTER | 2 | XTSTPCON | COPY OF TCATPCON & TCATPOC3 * |
| (49) | CHARACTER | 1 | * | |
| (4A) | CHARACTER | 1 | XTSTPOC3 | COPY OF TCATPOC3 |
| (4B) | CHARACTER | 1 | XTSRPOS2 | REQUEST SHIPPED |
| (4C) | BITSTRING | 1 | XTSTCOPC | TC OPERATION CODE |
| | 1... .. | | * | |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | ...1 | | XTSTCRD | TC READ |
| | 1... | | * | |
| |1. | | * | |
| |1 | | XTSTCCNV | TC CONVERSE |
| |1 | | XTSTCWRT | TC WRITE |
| (4D) | BITSTRING | 1 | XTSSTAT | TRANSFORM STATUS |
| | 1... .. | | XTSSTATR | REQUEST TRANSFORM |
| | .1.. | | XTSSTATA | ATTACH TRANSFORM |
| | ..1. | | XTSSTATD | DETACH TRANSFORM |
| | ...1 | | XTSSTATF | FLUSH TRANSFORM |
| | 1... | | * | |
| |1. | | * | |
| |1 | | XTSSTATT | Time-out supported |
| |1 | | XTSSTATC | Terminal-owner is cold |
| (4E) | CHARACTER | 4 | XTSTRNID | REMOTE TRANSACTION ID |
| (52) | BITSTRING | 1 | XTSZIRSP | ZC RESPONSE |
| (53) | CHARACTER | 8 | XTSTPPNM | Prog. name for ISSUE LOAD |
| (5C) | CHARACTER | 10 | * | |
| (5C) | CHARACTER | 8 | XTSLUNAM | LU name of target system |
| (64) | UNSIGNED | 2 | XTSDATAL | Length of logon data |
| (66) | CHARACTER | 1 | XTSLOGEX | LOGMODE EXISTENCE |
| (67) | CHARACTER | 8 | XTSLOGMD | LOGMODE FOR NEW SESS |
| (70) | FULLWORD | 4 | XTSDATAA | Address of logon data |
| (74) | CHARACTER | 8 | XTSTNNAM | Terminal netname |

Constants

| Len | Type | Value | Name | Description |
|---|------|-------|----------|-----------------------------|
| 1 | HEX | 00 | XTSTRAN1 | Transformation 1 |
| 1 | HEX | 02 | XTSTRAN2 | Transformation 2 |
| 1 | HEX | 04 | XTSTRAN3 | Transformation 3 |
| 1 | HEX | 06 | XTSTRAN4 | Transformation 4 |
| Values of XTSRQFRM | | | | |
| 1 | HEX | 00 | XTSRQRLY | Relay |
| TCTTE address for user terminal/surrogate is passed in XTSATTEU. Data is sent over the link with a X'438000' FMH. | | | | |
| 1 | HEX | 01 | XTSRQTIQ | Inquire terminal |
| The terminal entry associated with this conversation is INQUIRED. | | | | |
| 1 | HEX | 02 | XTSRQTIN | Install terminal |
| Address of Builder Parameter Set is passed in XTSINBPS. The BPS is sent over the link with a X'438002' FMH. This is not supported as the FMH 43 following a Task Attach. | | | | |
| 1 | HEX | 03 | XTSRQTDE | Delete terminal |
| The REMOTE entries named in the list (if any) attached to the system entry for the link TCTTE are to be deleted. This is only supported with a Task Attach. | | | | |
| 1 | HEX | 04 | XTSRQZIR | ZC install response message |

A03 VTAM global statistics

CONTROL BLOCK NAME = DFHA03DS
 DESCRIPTIVE NAME = CICS VTAM global Statistics.
 FUNCTION = This DSECT describes VTAM global statistics.
 The data described by this DSECT is placed in storage by DFHSTVT, one of the the statistics modules in the AP domain. It contains VTAM global statistics.
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
 LIFETIME = The storage area is created when a request for VTAM global stats is received. It is released when the caller has acknowledged receipt of the data .
 LOCATION = Caller is passed a pointer to the storage.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = DFHTCTFX TCTVRAHC
 DFHTCTFX TCTVRANT
 DFHTCTTE TCTEDVSC
 DFHTCTFX TCTVDOC
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------------|
| (0) | | | DFHA03DS | VTAM statistics (Global) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A03LEN | Length of data area |
| | ...1 .1.1 | | A03IDE | "0021" VTAM global stats mask |
| (2) | ADDRESS | 2 | A03ID | VTAM global storage id |
| |1 | | A03VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A03DVERS | VTAM stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | | 4 | A03RPLXT | Times at RPL max |
| (C) | | 2 | A03RPLX | Max RPLs posted |
| (E) | BITSTRING | 2 | A03VTSOS | VTAM SOS |
| (10) | HALFWORD | 2 | A03DOC | Dynamic open count |
| (12) | HALFWORD | 2 | | Reserved |
| (14) | FULLWORD | 4 | A03LUNUM | Current LUs in session |
| (18) | FULLWORD | 4 | A03LUHWM | HWM LUs in session |
| (1C) | FULLWORD | 4 | A03PSIC | PRSS inquire count |
| (20) | FULLWORD | 4 | A03PSNC | PRSS nib count |
| (24) | FULLWORD | 4 | A03PSOC | PRSS opndst count |
| (28) | FULLWORD | 4 | A03PSUC | PRSS unbind count |
| (2C) | FULLWORD | 4 | A03PSEC | PRSS error count |
| | ..11 | | A03END | "" |
| | ..11 | | A03CLEN | ""-A03LEN" Length of DSECT |

A04 Autoinstall statistics

```

CONTROL BLOCK NAME = DFHA04DS
DESCRIPTIVE NAME = CICS Autoinstall Statistics.
FUNCTION = This DSECT describes Autoinstall statistics.
    + Shipped remote definition statistics.
    The data described by this DSECT is placed in storage by
    DFHAPST, the statistics module in the AP domain.
    It contains autoinstall statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
autoinstall global stats is received. It is released when
the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTFX TCTVADAT
    DFHTCTFX TCTVADRJ
    DFHTCTFX TCTVADLO
    DFHTCTFX TCTVADPK
    DFHTCTFX TCTVADPX
    DFHTCTFX TCTVADQT
    DFHTCTFX TCTVADQK
    DFHTCTFX TCTVADQX
GLOBAL VARIABLES (Macro pass) = none

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (0) | | | DFHA04DS | Autoinstall statistics (Global) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A04LEN | Length of data area |
| | ...1 1... | | A04IDE | "0024" Autoinstall global stats mask |
| (2) | ADDRESS | 2 | A04ID | Autoinstall global storage id |
| |1 | | A04VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A04DVERS | stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | HALFWORD | 2 | A04VADAT | Total attempts |
| (A) | HALFWORD | 2 | A04VADSH | Times setlogon hold issued |
| (C) | FULLWORD | 4 | A04VADRJ | Total rejected |
| (10) | FULLWORD | 4 | A04VADLO | Total deleted |
| (14) | HALFWORD | 2 | A04VADPK | Peak concurrent attempts |
| (16) | HALFWORD | 2 | A04VADPX | Times peak reached |
| (18) | FULLWORD | 4 | A04VADQT | No. queued logons |
| (1C) | HALFWORD | 2 | A04VADQK | Peak of Q'd logons |
| (1E) | HALFWORD | 2 | A04VADQX | No. times peak is reached |

Remote statistics - shipped definitions

| | | | | |
|------|-----------|---|----------|----------------------------|
| (20) | | 4 | A04RDINT | Shipped delete interval |
| (24) | | 4 | A04RDIDL | Shipped delete idle time |
| (28) | FULLWORD | 4 | A04SKBLT | Remote terminals built |
| (2C) | FULLWORD | 4 | A04SKINS | Remote terminals installed |
| (30) | FULLWORD | 4 | A04SKDEL | Remote terminals deleted |
| (34) | FULLWORD | 4 | A04TIEXP | Times interval expired |
| (38) | FULLWORD | 4 | A04RDREC | # remdels received |
| (3C) | FULLWORD | 4 | A04RDISS | # remdels issued |
| (40) | FULLWORD | 4 | A04RDEL | # remdel deletes |
| (44) | FULLWORD | 4 | A04CIDCT | Current idle count |
| (48) | CHARACTER | 8 | A04CIDLE | Current idle time |
| (50) | CHARACTER | 8 | A04CMAXI | Current maximum idle time |
| (58) | FULLWORD | 4 | A04TIDCT | Total idle count |
| (5C) | CHARACTER | 8 | A04TIDLE | Total idle time |
| (64) | CHARACTER | 8 | A04TMAXI | Maximum idle time |
| | .11. 11.. | | A04END | "" |
| | .11. 11.. | | A04CLEN | ""-A04LEN" Length of DSECT |

A06 Terminal statistics

CONTROL BLOCK NAME = DFHA06DS
 DESCRIPTIVE NAME = CICS Terminal Statistics.
 FUNCTION = This DSECT describes the terminal statistics maintained in the AP domain.
 The data represents the statistics maintained for each terminal. It is used by DFHAPST to map the data in the statistics domain call data buffer. It is also used by DFHSTUP and user programs to map the same data.
 LIFETIME = Duration of the domain call.
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = DFHTCTTE TCTLENP
 DFHTCTTE TCTTETI
 DFHTCTTE TCTTENI
 DFHTCTTE TCTTETO
 DFHTCTTE TCTTETE
 DFHTCTTE TCTTEOT
 DFHTCTTE TCTTEOE
 DFHTCTTE TCTTESVC
 DFHTCTTE TCTETCNT
 DFHTCTTE TCTEMCNT
 DFHTCTTE TCTECCNT
 DFHTCTTE TCTTETT
 DFHTCTTE TCTEAMIB
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|------------|--------------------------------------|
| (0) | | | DFHA06DS | Terminal Stats DSECT (RESID & TOTAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A06LEN | Length of data area |
| | .1. .1. | | A06IDR | "34" Terminal RESID stats id mask |
| | .1.1 .1. | | A06IDL | "82" BTAM line stats id mask. |

The next field should be loaded with one of the two previous values

| | | | | |
|------|-----------|---|----------|------------------------------------|
| (2) | ADDRESS | 2 | A06ID | Terminal stats id |
| |1 | | A06VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A06DVERS | Terminal statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A06TETI | Terminal id |
| (C) | BITSTRING | 1 | A06TETT | Terminal type (cf TCTTTET) |
| (D) | BITSTRING | 1 | A06EAMIB | Access method (cf TCTEAMIB) |
| (E) | CHARACTER | 2 | | Reserved |
| (10) | | 4 | A06LENP | Number of polls |
| (14) | BITSTRING | 4 | A06TENI | Input messages |
| (18) | BITSTRING | 4 | A06TEN0 | Output messages |
| (1C) | BITSTRING | 4 | A06TEOT | Number of transactions |
| (20) | FULLWORD | 4 | A06CSVC | Storage violations |
| (24) | BITSTRING | 4 | A06TETE | Transmission errors |
| (28) | BITSTRING | 4 | A06TEOE | Transaction errors |
| (2C) | FULLWORD | 4 | A06TCNT | Pipeline messages (Total) |
| (30) | FULLWORD | 4 | A06SCNT | Pipeline messages (Groups) |
| (34) | HALFWORD | 2 | A06MCNT | Pipeline messages (Max consec) |
| (36) | HALFWORD | 2 | | Reserved |
| (38) | CHARACTER | 8 | A06LUNAM | LU Name |
| (40) | CHARACTER | 1 | A06PRTY | Terminal Priority |
| (41) | CHARACTER | 3 | | Reserved |
| (44) | FULLWORD | 4 | A06STG | TIOA Storage |
| (48) | CHARACTER | 4 | A06SYSID | Owning SYSID of terminal/session |
| (4C) | BITSTRING | 8 | A06ONTM | Autoinstall logon time (Local) |
| (54) | BITSTRING | 8 | A06OFFTM | Autoinstall logoff time (Local) |
| (5C) | BITSTRING | 8 | A06GONTM | Autoinstall logon time (GMT) |
| (64) | BITSTRING | 8 | A06GOFTM | Autoinstall logoff time (GMT) |
| | .11. 11.. | | A06END | "" |
| | .11. 11.. | | A06CLEN | ""-A06LEN" Length of DSECT |

A08 LSR pool statistics

```

CONTROL BLOCK NAME = DFHA08DS
DESCRIPTIVE NAME = CICS Statistics for LSR Pools.
FUNCTION = This data block describes the LSR Pool Statistics
           for a specified LSR Pool and totals for all pools.
           The data described here is placed in storage by DFHAPST.
           This DSECT is also used by DFHSTUP and user programs to
           to map the statistics block.
LIFETIME = The storage area is created when a request for AP
           domain File Control statistics is received. It is
           released when the caller has acknowledged receipt of
           the data.
LOCATION = The caller is passed a pointer to the head of the block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = DFHFCTSR FCTSRPID
                 DFHFCSBK FSCBKCTD
                 DFHFCSBK FSCBKDTD
                 DFHFCSBK FCSBKLYL
                 DFHFCSBK FCSBKSTN
                 DFHFCSBK FCSBKHSW
                 DFHFCSBK FCSBKHAS
                 DFHFCSBK FCSBKBSZ
                 DFHFCSBK FCSBKBFN
                 DFHFCSBK FCSBKBFH
                 DFHFCSBK FCSBKFRD
                 DFHFCSBK FCSBKUIW
                 DFHFCSBK FCSBKNUW
GLOBAL VARIABLES (Macro pass) = None
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | | | DFHA08DS | LSRPOOL statistics (RESID & TOTALS) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A08LEN | Length of data area |
| | ..1. .111 | | A08IDR | "39" LSR pool stats RESID id mask |

The next field should be loaded with the previous value

| | | | | |
|------|-----------|---|---------------|--------------------------------------|
| (2) | ADDRESS | 2 | A08ID | LSR pool id |
| |1 | | A08VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A08DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | ADDRESS | 1 | A08SRPID | LSR pool number |
| (9) | BITSTRING | 1 | A08FLAGS | Flags |
| | 1... | | A08IDSEP | "X'80" Separate index and data pools |
| (A) | CHARACTER | 2 | | Reserved |
| (C) | CHARACTER | 8 | A08LBKCD | Time pool created (Local STCK) |
| (14) | CHARACTER | 8 | A08LBKDD | Time pool deleted (Local STCK) |
| (1C) | CHARACTER | 8 | A08GBKCD | Time pool created (GMT STCK) |
| (24) | CHARACTER | 8 | A08GBKDD | Time pool deleted (GMT STCK) |
| (2C) | HALFWORD | 2 | A08BKLYL | Max key length |
| (2E) | HALFWORD | 2 | A08BKSTN | No. of strings |
| (30) | HALFWORD | 2 | A08BKHSW | Peak reqs waiting on string |
| (32) | HALFWORD | 2 | | Reserved |
| (34) | FULLWORD | 4 | A08BKTSW | Total No. reqs waiting on string |
| (38) | HALFWORD | 2 | A08BKHAS | Peak No. conc active FC strings |
| (3A) | HALFWORD | 2 | | Reserved |
| | 1.11 | | A08NBS | "11" Number of buffer sizes |
| (3C) | FULLWORD | 4 | A08TOBFN_DATA | Total no. of data buffers |
| (40) | FULLWORD | 4 | A08TOHBN_DATA | Total data hiperspace buffs |
| (44) | FULLWORD | 4 | A08TOBFF_DATA | Total no. successful look asides |
| (48) | FULLWORD | 4 | A08TOFRD_DATA | Total no. buffer reads |
| (4C) | FULLWORD | 4 | A08TOUIW_DATA | Total no. user initiated writes |
| (50) | FULLWORD | 4 | A08TONUW_DATA | Total no. non-user initiated writes |
| (54) | FULLWORD | 4 | A08TOCRS_DATA | Total no. successful CREAD |
| (58) | FULLWORD | 4 | A08TOCWS_DATA | Total no. successful CWRITE |
| (5C) | FULLWORD | 4 | A08TOCRF_DATA | Total no. failing CREAD |
| (60) | FULLWORD | 4 | A08TOCWF_DATA | Total no. failing CWRITE |
| (64) | FULLWORD | 4 | A08TOBFN_IND | Total no. of index buffers |
| (68) | FULLWORD | 4 | A08TOHBN_IND | Total indx hiperspace buffs |
| (6C) | FULLWORD | 4 | A08TOBFF_IND | Total no. successful look asides |
| (70) | FULLWORD | 4 | A08TOFRD_IND | Total no. buffer reads |
| (74) | FULLWORD | 4 | A08TOUIW_IND | Total no. user initiated writes |
| (78) | FULLWORD | 4 | A08TONUW_IND | Total no. non-user initiated writes |
| (7C) | FULLWORD | 4 | A08TOCRS_IND | Total no. successful CREAD |
| (80) | FULLWORD | 4 | A08TOCWS_IND | Total no. successful CWRITE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|---|
| (84) | FULLWORD | 4 | A08TOCRF_INDIX | Total no. failing CREAD |
| (88) | FULLWORD | 4 | A08TOCWF_INDIX | Total no. failing CWRITE |
| | 1... 11.. | | A08END | *** |
| | 1... 11.. | | A08CLEN | **-A08LEN" Length of common part of DSECT |
| (8C) | CHARACTER | 1 | A08BSTAT | Buffer size statistics for data and index buffers |
| (8C) | | | A08DLEN | **-A08LEN" Length of DSECT |

The following DSECT is repeated for each buffer size in the pool. If separate index and data buffers are NOT being used, there will be A08NBS repeats of this DSECT, one for each buffer. If separate data and index buffers are being used (A08IDSEP flag set) there will be A08NBS 2 repeats of this DSECT (A08NBS for the data buffers followed by A08NBS for the index buffers).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | A08BSSDS | Statistics by buffer size |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | ADDRESS | 2 | A08BKBSZ | Buffer size |
| (2) | HALFWORD | 2 | A08BKBFN | No. of buffers |
| (4) | FULLWORD | 4 | A08BKHBN | No. of hiperspace buffers |
| (8) | FULLWORD | 4 | A08BKBFN | No. successful look asides |
| (C) | FULLWORD | 4 | A08BKFRD | No. buffer reads |
| (10) | FULLWORD | 4 | A08BKUIW | No. user initiated buffer writes |
| (14) | FULLWORD | 4 | A08BKNUW | No. non-user initiated buffer writes |
| (18) | FULLWORD | 4 | A08BKCRS | No. successful CREAD |
| (1C) | FULLWORD | 4 | A08BKCWS | No. successful CWRITE |
| (20) | FULLWORD | 4 | A08BKCRF | No. failing CREAD |
| (24) | FULLWORD | 4 | A08BKCWF | No. failing CWRITE |
| | ..1. 1... | | A08BEND | *** End of Buffer stats |
| | ..1. 1... | | A08BLEN | **-A08BSSDS" Length of stats for a buffer size |

A09 File specific statistics

CONTROL BLOCK NAME = DFHA09DS
 DESCRIPTIVE NAME = CICS File specific Statistics for LSR Pools.
 FUNCTION = This data block describes the LSR Pool file related Statistics for a specified LSR Pool and totals for all files in the pool.
 The data described here is placed in storage by DFHAPST.
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.
 LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.
 LOCATION = The caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = DFHFCTDS FCTDSDBN
 DFHFCTDS FCTDSID
 DFHFCTDS FCTDSIBN
 DFHFCTDS FCTDSCBW
 DFHFCTDS FCTDShBW
 DFHFCTDS FCTDSTBW
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | | | DFHA09DS | LSRPOOL statistics (File specifics) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A09LEN | Length of data area |
| | ..1. 1... | | A09IDR | "40" LSR pool file stats RESID id mask |
| | ..1. 1..1 | | A09IDT | "41" LSR pool file stats TOTALS id mask |
| The next field should be loaded with one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A09ID | LSR pool id |
| |1 | | A09VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A09DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | HALFWORD | 2 | A09SRPID | LSR pool number |
| (A) | CHARACTER | 8 | A09DSID | Filename |
| (12) | HALFWORD | 2 | A09DBN | Data buffer size |
| (14) | HALFWORD | 2 | A09IBN | Index buffer size |
| (16) | HALFWORD | 2 | | Reserved |
| If this is a totals record only the next field contains data | | | | |
| (18) | FULLWORD | 4 | A09TBW | Total buffer waits |
| (1C) | HALFWORD | 2 | A09HBW | Highest buffer waits |
| | ...1 111. | | A09END | *** |
| | ...1 111. | | A09CLEN | **-A09LEN" Length of DSECT |

A14 ISC/IRC statistics

CONTROL BLOCK NAME = DFHA14DS
 DESCRIPTIVE NAME = CICS ISC/IRC Statistics - system entries.
 FUNCTION = This DSECT describes ISC/IRC statistics.
 The data described by this DSECT is placed in storage by DFHSTLK, the statistics module in the AP domain. It contains IRC Batch statistics.
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
 Mode entry statistics are described in the DFHA20DS DSECT.
 LIFETIME = The storage area is created when a request for ISC/IRC Stats is received. It is released when the caller has acknowledged receipt of the data .
 LOCATION = Caller is passed a pointer to the storage.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = DFHTCTTE TCTTETI
 DFHTCTTE TCSEALL
 DFHTCTTE TCSESALL
 DFHTCTTE TCSEBID
 DFHTCTTE TCSESTAM
 DFHTCTTE TCSE1HWM
 DFHTCTTE TCSE2HWM
 DFHTCTTE TCSEBHWM
 DFHTCTTE TCSES1
 DFHTCTTE TCSES2
 DFHTCTTE TCSESBID
 DFHTCTTE TCSESTAS
 DFHTCTTE TCSESTAQ
 DFHTCTTE TCSESTAF
 DFHTCTTE TCSESTAO
 DFHTCTTE TCSESTFC
 DFHTCTTE TCSESTIC
 DFHTCTTE TCSESTTD
 DFHTCTTE TCSESTTS
 DFHTCTTE TCSESTDL
 DFHTCTTE TCSESTTC
 DFHTCTTE TCSEALRJ
 DFHTCTTE TCSEQPCT
 DFHTCTTE TCSEMXTQ
 DFHTCTTE TCSEALIM
 DFHTCTTE TCSEMQPC
 DFHTCTTE TCSEZQRJ
 DFHTCTTE TCSEZQPU
 DFHTCTTE TCSEZQPC
 DFHTCTTE TCSESID
 DFHTCTTE TCSACCM
 DFHTCTTE TCSEFLGS
 DFHTCTTE TCSESECN
 DFHTCTTE TCSEPRMN
 DFHTCTTE TCSE1RY
 DFHTCTTE TCSE2RY
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------------|
| (0) | | | DFHA14DS | ISC/IRC statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A14LEN | Length of data area |
| | ..11 .1.. | | A14IDR | "0052" ISC/IRC RESID stats mask |
| | ..11 .1.1 | | A14IDT | "0053" ISC/IRC Stats Totals Mask |
| The next field should be loaded to one of the two previous values | | | | |
| (2) | ADDRESS | 2 | A14ID | ISC/IRC id |
| |1 | | A14VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A14DVERS | ISC/IRC stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A14CNTN | Connection name |
| (C) | HALFWORD | 2 | A14EALL | Aids in chain |
| (E) | HALFWORD | 2 | A14ESALL | Generic AIDS in chain |
| (10) | HALFWORD | 2 | A14EBID | Current bids |
| (12) | HALFWORD | 2 | A14ESTAM | Max outstanding allocates |
| (14) | HALFWORD | 2 | A14E2HWM | Max secondaries |
| (16) | HALFWORD | 2 | A14EBHWM | Max bids |
| (18) | FULLWORD | 4 | A14ES1 | ATIs satisfied by primaries |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------------|
| (1C) | FULLWORD | 4 | A14ES2 | ATIs satisfied by secondaries |
| (20) | FULLWORD | 4 | A14ESBID | Bids sent |
| (24) | FULLWORD | 4 | A14ESTAS | Total allocates |
| (28) | FULLWORD | 4 | A14ESTAQ | Queued allocates |
| (2C) | FULLWORD | 4 | A14ESTAF | Failed link allocates |
| (30) | FULLWORD | 4 | A14ESTAO | Failed - other reasons |
| (34) | FULLWORD | 4 | A14ESTFC | File control function shipping reqs |
| (38) | FULLWORD | 4 | A14ESTIC | Intv control function shipping reqs |
| (3C) | FULLWORD | 4 | A14ESTTD | TD function shipping reqs |
| (40) | FULLWORD | 4 | A14ESTTS | TS function shipping reqs |
| (44) | FULLWORD | 4 | A14ESTDL | DL/I function shipping reqs |
| (48) | FULLWORD | 4 | A14ESTTC | Terminal sharing reqs |
| (4C) | HALFWORD | 2 | A14E1HWM | Max primaries |
| (4E) | HALFWORD | 2 | A14EQPCT | MAXQTIME purge count |
| (50) | FULLWORD | 4 | A14EALRJ | Allocates rejected (QLIMIT) |
| (54) | HALFWORD | 2 | A14EMXQT | Max queue time |
| (56) | HALFWORD | 2 | A14EALIM | Allocate queue limit |
| (58) | FULLWORD | 4 | A14EZQRJ | XZIQUE rejects |
| (5C) | HALFWORD | 2 | A14EZQPU | XZIQUE purge count |
| (5E) | HALFWORD | 2 | A14EZQPC | XZIQUE allocates purged |
| (60) | HALFWORD | 2 | A14EMQPC | MAXQTIME allocates purged |
| (62) | CHARACTER | 6 | | Reserved |
| (68) | DBL WORD | 8 | A14GACT | AI GMT conn create time |
| (70) | DBL WORD | 8 | A14AICT | AI conn create time |
| (78) | DBL WORD | 8 | A14GADT | AI GMT conn delete time |
| (80) | DBL WORD | 8 | A14AIDT | AI conn delete time |
| (88) | FULLWORD | 4 | | Reserved |
| (8C) | CHARACTER | 8 | A14ESID | Connection netname |
| (94) | BITSTRING | 1 | A14ACCM | Access method |
| (95) | BITSTRING | 1 | A14EFLGS | Protocol |
| (96) | HALFWORD | 2 | A14ESECN | Send session count |
| (98) | HALFWORD | 2 | A14EPRMN | Receive session count |
| (9A) | HALFWORD | 2 | A14E1RY | Primaries currently used |
| (9C) | HALFWORD | 2 | A14E2RY | Secondaries currently used |
| (9E) | CHARACTER | 2 | | Reserved |
| (A0) | FULLWORD | 4 | A14ESTPC | Program Control funct ship reqs |
| | 1.1. .1.. | | A14END | "" |
| | 1.1. .1.. | | A14CLEN | ""-A14LEN" Length of DSECT |
| Equates for testing A14ACCM. (Access Method) | | | | |
| |1 | | A14VTAM | "1" |
| |1 | | A14IRC | "2" |
| |11 | | A14XM | "3" |
| |1.. | | A14XCF | "4" |
| Equates for testing A14EFLGS. (Protocol) | | | | |
| |1 | | A14APPC | "1" |
| |1 | | A14LU61 | "2" |
| |11 | | A14EXCI | "3" |

A16 Table manager statistics

CONTROL BLOCK NAME = DFHA16DS
 DESCRIPTIVE NAME = CICS Statistics for Table manager
 FUNCTION = This data block describes the global table manager Statistics.
 The data described here is placed in storage by DFHAPST
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.
 LIFETIME = The storage area is created when a request for AP domain Table manager statistics is received. It is released when the caller has acknowledged receipt of the data.
 LOCATION = The caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = DFHTMSKT SKTNUMDS
 DFHTMSKT SKTLNTH
 DFHTMSKT SKTINFO
 DFHTMSSA TMNDESG
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (0) | | | DFHA16DS | Table manager statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A16LEN | Length of data area |
| | ..11 1111 | | A16IDE | "63" Table manager stats id mask |
| (2) | ADDRESS | 2 | A16ID | Table manager id |
| |1. | | A16VERS | "X'02" DSECT version number mask |
| (4) | CHARACTER | 1 | A16DVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| | ...1 ...1 | | A16NTAB | "17" Number of tables |
| | 1... | | A16END | *** |
| | 1... | | A16CLEN | **-A16LEN" Length of DSECT |

The following section is repeated for each of the 17 tables

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------|
| (0) | | | A16STATS | Stats for each table |
| (0) | CHARACTER | 4 | A16TNAM | Table name |
| (4) | FULLWORD | 4 | A16TSIZE | Table size |
| | 1... | | A16SEND | *** |
| | 1... | | A16SCLEN | **-A16STATS" Length of DSECT |

A17 File control statistics

CONTROL BLOCK NAME = DFHA17DS
 DESCRIPTIVE NAME = CICS File control Statistics
 FUNCTION = This DSECT describes File Control statistics.
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain. It contains File Control statistics.
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
 LIFETIME = The storage area is created when a request for file control global stats is received. It is released when the caller has acknowledged receipt of the data .
 LOCATION = Caller is passed a pointer to the storage.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = DFHFCTDS FCTDSRD
 DFHFCTDS FCTDSGU
 DFHFCTDS FCTDSBR
 DFHFCTDS FCTDSWRA
 DFHFCTDS FCTDSWRU
 DFHFCTDS FCTDSDEL
 DFHFCTDS FCTRDEL
 DFHFCTDS FCTDSXCP
 DFHFCTDS FCTDSIXP
 GLOBAL VARIABLES (Macro pass) = none
 CHAR(8)

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (0) | | | DFHA17DS | File control statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A17LEN | Length of data area |
| | .1.. .11 | | A17IDR | "0067" File control stats mask |
| The next field should be loaded with the previous value. | | | | |
| (2) | ADDRESS | 2 | A17ID | File control id |
| |11 | | A17VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A17DVERS | File stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | A17FNAM | File name |
| (10) | CHARACTER | 1 | A17FLOC | Set to "R" if remote |
| (11) | CHARACTER | 1 | A17DT | Set to "R","S","T","L","K" or "X" if data table fields present |
| | 11.1 1..1 | | A17DTRMT | "C'R" Table fields for remote table |
| | 111. .1. | | A17DTASS | "C'S" Table fields for associated file |
| | 111. .11 | | A17DTPRS | "C'T" SDT fields present |
| | 11.1 .11 | | A17DTCFL | "C'L" Coupling Facility data table fields present(locking model) |
| | 11.1 .1. | | A17DTCFC | "C'K" Coupling Facility data table fields present(contention model) |
| | 111. .111 | | A17DTAIX | "C'X" Table fields for updates via AIX |
| (12) | CHARACTER | 1 | A17DSRLS | RLS/Non-RLS Indicator "R" = RLS mode blank = non-RLS mode |
| | 11.1 1..1 | | A17RLS | "C'R" RLS file |
| | .1.. | | A17NORLS | "C' " non-RLS file |
| (13) | CHARACTER | 5 | | Reserved |
| (18) | | 4 | RESFLD1 | Reserved |
| (1C) | | 4 | RESFLD2 | Reserved |
| (20) | CHARACTER | 44 | A17DSNAM | Dataset name |
| (4C) | FULLWORD | 4 | A17DSRD | GET requests |
| (50) | FULLWORD | 4 | A17DSGU | GET update requests |
| (54) | FULLWORD | 4 | A17DSBR | BROWSE requests |
| (58) | FULLWORD | 4 | A17DSWRA | ADD requests |
| (5C) | FULLWORD | 4 | A17DSWRU | UPDATE requests |
| (60) | FULLWORD | 4 | A17DSDEL | DELETE requests local |
| (64) | FULLWORD | 4 | A17RMDL | DELETE requests remote |
| (68) | FULLWORD | 4 | A17DSXCP | VSAM EXCP requests - data |
| (6C) | FULLWORD | 4 | A17DSIXP | VSAM EXCP requests - index |
| (70) | FULLWORD | 4 | A17DSTSW | Wait on string total |
| (74) | HALFWORD | 2 | A17DSHSW | Wait on string highest |
| (76) | HALFWORD | 2 | | Reserved |
| (78) | CHARACTER | 1 | A17DTTYP | Set to "C","S","U","X","L" or "K" for close |
| | 11.. .11 | | A17DTTC | "C'C" CICS maintained table close |
| | 111. .1. | | A17DTTS | "C'S" USER table source close |
| | 11.1 .111 | | A17DTTP | "C'P" CICS table partial close |
| | 111. .1.. | | A17DTTU | "C'U" USER maintained table close |
| | 11.1 .11 | | A17DTTL | "C'L" Coupling Facility table close @L8C (locking model) |
| | 11.1 .1. | | A17DTTK | "C'K" Coupling Facility table close (contention model) |
| (79) | CHARACTER | 3 | | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (7C) | FULLWORD | 4 | A17DTRDS | Read/browse requests |
| (80) | FULLWORD | 4 | A17DTRNF | Source reads issued |
| (84) | FULLWORD | 4 | A17DTAVR | ADDs resulting from READs |
| (88) | FULLWORD | 4 | A17DTADS | ADD requests |
| (8C) | FULLWORD | 4 | A17DTARJ | ADDs rejected by exit |
| (90) | FULLWORD | 4 | A17DTATF | ADDs when table full |
| (94) | FULLWORD | 4 | A17DTRWS | REWRITE requests |
| (98) | FULLWORD | 4 | A17DTDLS | DELETE requests |
| (9C) | FULLWORD | 4 | A17DTSHI | Highest table record count |
| (A0) | FULLWORD | 4 | A17DTSIZ | Current table record count |
| (A4) | FULLWORD | 4 | A17DTALT | Storage allocated - total (KB) |
| (A8) | FULLWORD | 4 | A17DTUST | Storage in-use - total (KB) |
| (AC) | FULLWORD | 4 | A17DTALE | Storage allocated - entries (KB) |
| (B0) | FULLWORD | 4 | A17DTUSE | Storage in-use - entries (KB) |
| (B4) | FULLWORD | 4 | A17DTALI | Storage allocated - index (KB) |
| (B8) | FULLWORD | 4 | A17DTUSI | Storage in-use - index (KB) |
| (BC) | FULLWORD | 4 | A17DTALD | Storage allocated - data (KB) |
| (C0) | FULLWORD | 4 | A17DTUSD | Storage in-use - data (KB) |
| (C4) | FULLWORD | 4 | A17DTRRS | Read Retries for a SDT |
| (C8) | HALFWORD | 2 | A17DSDNB | No Buffers - Data |
| (CA) | HALFWORD | 2 | A17DSINB | No Buffers - Index |
| (CC) | BITSTRING | 1 | A17POOL | LSRPOOL Id |
| (CD) | BITSTRING | 1 | | Reserved |
| (CE) | HALFWORD | 2 | A17STRNO | No Strings |
| (D0) | CHARACTER | 8 | A17RNAME | Remote Name |
| (D8) | CHARACTER | 4 | A17RSYS | Remote Sysid |
| (DC) | CHARACTER | 1 | A17DSTYP | Dataset Type |
| (DD) | CHARACTER | 3 | | Reserved |
| (E0) | CHARACTER | 44 | A17BDSNM | Base Dataset Name |
| (10C) | HALFWORD | 2 | A17DSASC | No Active Strings |
| (10E) | HALFWORD | 2 | A17DSASW | No String Waits |
| (110) | CHARACTER | 8 | A17LOPNT | File open time (Local STCK) |
| (118) | CHARACTER | 8 | A17LCLST | File close time (Local STCK) |
| (120) | CHARACTER | 8 | A17GOPNT | File open time (GMT STCK) |
| (128) | CHARACTER | 8 | A17GCLST | File close time (GMT STCK) |
| (130) | FULLWORD | 4 | A17DSBRU | Browse for update count |
| (134) | FULLWORD | 4 | A17RLSWT | RLS request wait timeouts |
| (138) | FULLWORD | 4 | A17DTCON | Number of CHANGED responses for a CFDT using contention, number of lock waits for a CFDT using locking. |
| (13C) | CHARACTER | 8 | A17DTCFP | Coupling Facility Data Table Pool Name |
| (144) | FULLWORD | 4 | A17DTLDS | Number of LOADING responses |
| (144) | | | A17END | *** |
| (144) | | | A17CLEN | **-A17LEN" Length of DSECT |

A20 ISC/IRC mode entry statistics

```

CONTROL BLOCK NAME = DFHA20DS
DESCRIPTIVE NAME = CICS ISC/IRC Statistics - mode entries.
FUNCTION = This DSECT describes ISC/IRC mode entry statistics.
    The data described by this DSECT is placed in storage by
    DFHSTLK, the statistics module in the AP domain.
    It contains IRC mode entry statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
    System entry statistics are described in the DFHA14DS DSECT.
LIFETIME = The storage area is created when a request for ISC/IRC
mode entry stats is received. It is released
when the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTTE TCMEBID
    DFHTCTTE TCMESTAM
    DFHTCTTE TCME1HWM
    DFHTCTTE TCME2HWM
    DFHTCTTE TCMEBHWM
    DFHTCTTE TCMES1
    DFHTCTTE TCMES2
    DFHTCTTE TCMESBID
    DFHTCTTE TCMESTAS
    DFHTCTTE TCMESTAQ
    DFHTCTTE TCMESTAF
    DFHTCTTE TCMESTAG
    DFHTCTTE TCMESTAP
    DFHTCTTE TCMESTAO
    DFHTCTTE TCMESTFC
    DFHTCTTE TCMESTIC
    DFHTCTTE TCMESTTD
    DFHTCTTE TCMESTTS
    DFHTCTTE TCMESTDL
    DFHTCTTE TCMESTTC
    DFHTCTTE TCMEMODE
    DFHTCTTE TCTETTI
    DFHTCTTE TCMEZQPC
    DFHTCTTE TCMELMAX
    DFHTCTTE TCMEMCON
    DFHTCTTE TCMEMAXS
    DFHTCTTE TCMECONW
    DFHTCTTE TCMECONL
    DFHTCTTE TCME1RY
    DFHTCTTE TCME2RY
GLOBAL VARIABLES (Macro pass) = none
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHA20DS | ISC/IRC mode entry statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A20LEN | Length of data area |
| | .1.. 11.. | | A20IDR | "0076" ISC/IRC RESID mode entry stats mask |
| | .1.. 11.1 | | A20IDT | "0077" ISC/IRC Stats Totals mask |

The next field should be loaded to one of the two previous values

| | | | | |
|------|-----------|---|----------|-----------------------------------|
| (2) | ADDRESS | 2 | A20ID | ISC/IRC mode entry id |
| |1 | | A20VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | A20DVERS | ISC/IRC mode entry stats vers No. |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | A20SYSN | System name |
| (C) | CHARACTER | 8 | A20MODE | Mode name |
| (14) | HALFWORD | 2 | A20ESTAM | Max outstanding allocates |
| (16) | HALFWORD | 2 | A20E2HWM | Max secondaries |
| (18) | HALFWORD | 2 | A20EBHWM | Max bids |
| (1A) | HALFWORD | 2 | A20E1HWM | Peak contention losers |
| (1C) | FULLWORD | 4 | A20ES1 | ATIs satisfied by primaries |
| (20) | FULLWORD | 4 | A20ES2 | ATIs satisfied by secondaries |
| (24) | FULLWORD | 4 | A20ESBID | Bids sent |
| (28) | FULLWORD | 4 | A20ESTAS | Total allocates |
| (2C) | FULLWORD | 4 | A20ESTAQ | Queued allocates |
| (30) | FULLWORD | 4 | A20ESTAF | Failed link allocates |
| (34) | FULLWORD | 4 | A20ESTAO | Failed - other reasons |
| (38) | FULLWORD | 4 | A20ESTAG | Generic allocates |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (3C) | FULLWORD | 4 | A20ESTAP | Specific allocates |
| (40) | HALFWORD | 2 | A20EBID | Current bids |
| (42) | HALFWORD | 2 | A20EQPCT | XZIQUE purge count |
| (44) | HALFWORD | 2 | A20EZQPC | XZIQUE allocates purged |
| (46) | HALFWORD | 2 | A20ELMAX | Max session count |
| (48) | HALFWORD | 2 | A20EMCON | Max contention winners acceptable |
| (4A) | HALFWORD | 2 | A20EMAXS | Current Max session count |
| (4C) | HALFWORD | 2 | A20ECONW | Current CNOS contention winners |
| (4E) | HALFWORD | 2 | A20ECONL | Current CNOS contention losers |
| (50) | HALFWORD | 2 | A20E1RY | Primaries currently used |
| (52) | HALFWORD | 2 | A20E2RY | Secondaries currently used |
| | .1.1 .1.. | | A20END | *** |
| | .1.1 .1.. | | A20CLEN | **-A20LEN" Length of DSECT |

A21 ISC LUIT & sna management statistics

CONTROL BLOCK NAME = DFHA21PS
 DESCRIPTIVE NAME = CICS/ESA ISC statistics - LUIT management
 FUNCTION = This copybook describes ISC statistics associated with Persistent Verification and management of entries in the LUIT tables.
 The data described by this copybook is placed in storage by DFHSTLK, one of the statistics modules in the AP Domain. The same copybook describes the system and user copies of the statistics. Several copies of the statistics may exist in the system until the caller's request has been satisfied.
 LIFETIME = The storage area is created when a request for ISC stats is received. It is released when the caller has acknowledged receipt of the data.
 LOCATION = Caller is passed a pointer to the storage
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = DFHCSAPS CSA_LTIME
 DFHNSSTA LUIT_TOTAL_REUSES
 DFHNSSTA LUIT_TOTAL_TIMEOUTS
 DFHNSSTA LUIT_AV_REUSE_TIME
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------------|--|
| (0) | STRUCTURE | 36 | DFHA21PS | ISC Statistics |
| (0) | HALFWORD | 2 | A21_STATS_LENGTH | Length of data area |
| (2) | HALFWORD | 2 | A21_STATS_ID | Statistics id |
| (4) | UNSIGNED | 1 | A21_STATS_VERSION | Stats version number |
| (5) | UNSIGNED | 3 | * | Reserved |
| (8) | UNSIGNED | 2 | * | Reserved |
| (A) | HALFWORD | 2 | A21_SIT_LUIT_TIME | Delay time for LUIT table |
| (C) | FULLWORD | 4 | * | Reserved |
| (10) | FULLWORD | 4 | * | Reserved |
| (14) | FULLWORD | 4 | * | Reserved |
| (18) | FULLWORD | 4 | A21_LUIT_TOTAL_REUSES | Total number of entries * * reused in LUIT table |
| (1C) | FULLWORD | 4 | A21_LUIT_TOTAL_TIMEOUTS | Total number of entries * * timed out in LUIT table |
| (20) | FULLWORD | 4 | A21_LUIT_AV_REUSE_TIME | Average reuse time between * * entries in the LUIT table |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------------|------------------|
| 1 | HEX | 01 | A21_STATS_DCL_VERSION | Version number |
| 2 | DECIMAL | 54 | A21_STATS_DCL_RESID | stats id (RESID) |

A22 Fepi pool statistics

```

CONTROL BLOCK NAME = DFHA22DS
DESCRIPTIVE NAME = CICS FEPI pool statistics
FUNCTION =
    This data block describes the block of storage containing
    the statistics for a FEPI pool.
    The data described by this DSECT is placed in storage by
    DFHAPST, the statistics module in the AP domain.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
LIFETIME = The storage area is created when a request for
    FEPI pool stats is received. It is released when
    the caller has acknowledged receipt of the data .
STORAGE CLASS =
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
    DATA AREAS = none
    CONTROL BLOCKS = in the FEPI RM
    GLOBAL VARIABLES (Macro pass) = none
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA22DS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.
  
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (0) | | | DFHA22DS | FEPI pool statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A22LEN | Length of data area |
| | ...1 | | A22IDR | "0016" FEPI pool RESID stats mask |
| (2) | ADDRESS | 2 | A22ID | FEPI pool id |
| |1 | | A22VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A22DVERS | Pool statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A22POOL | Pool name |
| (10) | FULLWORD | 4 | A22TRGCT | # targets |
| (14) | FULLWORD | 4 | A22NDCT | # nodes |
| (18) | FULLWORD | 4 | A22CONCT | # connections |
| (1C) | FULLWORD | 4 | A22CONPK | Peak # connections |
| (20) | FULLWORD | 4 | A22ALLOC | # conversation allocates |
| (24) | FULLWORD | 4 | A22PKALL | Peak # concurrent allocates |
| (28) | FULLWORD | 4 | A22WAIT | Current # allocates waiting |
| (2C) | FULLWORD | 4 | A22TOTWT | Total # allocates waited |
| (30) | FULLWORD | 4 | A22PKWT | Peak # allocates waiting |
| (34) | FULLWORD | 4 | A22TIOUT | # allocates that timed out |
| | ..11 1... | | A22END | **" |
| | ..11 1... | | A22CLEN | **"-A22LEN" Length of DSECT |

A23 Fepi connection statistics

CONTROL BLOCK NAME = DFHA23DS
 DESCRIPTIVE NAME = CICS FEPI connection statistics
 FUNCTION =
 This data block describes the block of storage containing the statistics for a FEPI connection.
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
 LIFETIME = The storage area is created when a request for FEPI connection stats is received. It is released when the caller has acknowledged receipt of the data .
 STORAGE CLASS =
 LOCATION = Caller is passed a pointer to the storage.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = in the FEPI RM
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA23DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHA23DS | FEPI connection statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A23LEN | Length of data area |
| | ...1 ...1 | | A23IDR | "0017" FEPI connection RESID stats mask |
| (2) | ADDRESS | 2 | A23ID | FEPI connection id |
| |1 | | A23VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A23DVERS | Connection statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A23POOL | Pool name |
| (10) | CHARACTER | 8 | A23TARG | Target name |
| (18) | CHARACTER | 8 | A23NODE | Node name |
| (20) | FULLWORD | 4 | A23ACQ | # acquires for connection |
| (24) | FULLWORD | 4 | A23CNV | # conversations |
| (28) | FULLWORD | 4 | A23USI | # unsolicited inputs received |
| (2C) | FULLWORD | 4 | A23CHOUT | # characters sent on connection |
| (30) | FULLWORD | 4 | A23CHIN | # characters received on connection |
| (34) | FULLWORD | 4 | A23RTOUT | # receive timeouts |
| (38) | FULLWORD | 4 | A23ERROR | # error conditions |
| | ..11 11.. | | A23END | "" |
| | ..11 11.. | | A23CLEN | ""-A23LEN" Length of DSECT |

A24 Fepi target statistics

CONTROL BLOCK NAME = DFHA24DS
 DESCRIPTIVE NAME = CICS FEPI target statistics
 FUNCTION =
 This data block describes the block of storage containing the statistics for a FEPI target.
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.
 LIFETIME = The storage area is created when a request for FEPI target stats is received. It is released when the caller has acknowledged receipt of the data .
 STORAGE CLASS =
 LOCATION = Caller is passed a pointer to the storage.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = in the FEPI RM
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA24DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | | | DFHA24DS | FEPI target statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | A24LEN | Length of data area |
| | ...1 ..1. | | A24IDR | "0018" FEPI target RESID stats mask |
| (2) | ADDRESS | 2 | A24ID | FEPI target id |
| |1 | | A24VERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | A24DVERS | Target statistics version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | A24TARG | Target name |
| (10) | CHARACTER | 8 | A24POOL | Pool name |
| (18) | CHARACTER | 8 | A24APPL | Applid |
| (20) | FULLWORD | 4 | A24NDCT | # nodes |
| (24) | FULLWORD | 4 | A24ALLOC | # conversation allocates |
| (28) | FULLWORD | 4 | A24TOTWT | Total # allocates waited |
| (2C) | FULLWORD | 4 | A24WAIT | Current # allocates waiting |
| (30) | FULLWORD | 4 | A24PKWT | Peak # allocates waiting |
| (34) | FULLWORD | 4 | A24TIOUT | # allocates that timed out |
| | ..11 1... | | A24END | *** |
| | ..11 1... | | A24CLEN | **-A24LEN" Length of DSECT |

BRARC Brxa definition

This is the description of the BRXA passed to the Bridge Exit as its COMMAREA.

The BRXA header contains the following fields:

BRXA_HEADER_EYECATCHER

An eyecatcher to identify the area as an BRXA. This is initialised by CICS to the value BRXA_HEADER_EYE (>BRAREA '), which is defined in the DFHBRACx copy book.

BRXA_HEADER_LENGTH

The length of the header.

BRXA_HEADER_VERSION_NO

The version number of the BRXA. This allows future releases to extend the BRXA. This is initialised by CICS to brxa_current_version_no.

BRXA_TRANSACTION_AREA_PTR

The address of the BRXA_TRANSACTION_AREA, which contains information relating to the Bridge Transaction and the User Transaction. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_TRANSACTION_AREA_LEN

The length of the BRXA_TRANSACTION_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_COMMAND_AREA_PTR

The address of the BRXA_COMMAND_AREA, which contains information relating to the command causing the Bridge Exit to be driven. This will be set by CICS, and should not be modified by the Bridge Exit code.

BRXA_COMMAND_AREA_LEN

The length of the BRXA_COMMAND_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

BRXA_USER_AREA_PTR

A user field which allows the address of a user area to be saved across Bridge Exit calls within a task. The user area should be obtained using an EXEC CICS GETMAIN.

BRXA_USER_AREA_LEN

A user fields which can be used to save the length of the user area. TRANSACTION.

BRXA_INPUT_MSG_PTR

A field used to save the address of an input message. This field is intended to be used in conjunction with a formatter.

BRXA_INPUT_MSG_LEN

A field used to save the current length of the input message.

BRXA_OUTPUT_MSG_PTR

A field used to save the address of an output message. This field is intended to be used in conjunction with a formatter.

BRXA_OUTPUT_MSG_LEN

A field used to save the current length of the output message.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|-------------------------------|-------------|
| (0) | STRUCTURE | 56 | BRXA_HEADER | |
| (0) | CHARACTER | 8 | BRXA_HEADER_ EYECATCHER | |
| (8) | FULLWORD | 4 | BRXA_HEADER_ LENGTH | |
| (C) | UNSIGNED | 4 | BRXA_HEADER_ VERSION_NO | |
| (10) | ADDRESS | 4 | BRXA_TRANSACTION_ AREA_PTR | |
| (14) | FULLWORD | 4 | BRXA_TRANSACTION_ AREA_LEN | |
| (18) | ADDRESS | 4 | BRXA_COMMAND_ AREA_PTR | |
| (1C) | FULLWORD | 4 | BRXA_COMMAND_ AREA_LEN | |
| (20) | ADDRESS | 4 | BRXA_USER_ AREA_PTR | |
| (24) | FULLWORD | 4 | BRXA_USER_ AREA_LEN | |
| new for CTS 1.3 | | | | |
| (28) | ADDRESS | 4 | BRXA_INPUT_ MSG_PTR | |
| (2C) | FULLWORD | 4 | BRXA_INPUT_ MSG_LEN | |
| (30) | ADDRESS | 4 | BRXA_OUTPUT_ MSG_PTR | |
| (34) | FULLWORD | 4 | BRXA_OUTPUT_ MSG_LEN | |

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-

The BRXA transaction area contains information about the invoking Bridge transaction and the linked to transaction. This area is not meaningful when executing within the Bridge transaction and should not be referenced there. This information is completed by CICS for each invocation of the Bridge Exit. The transaction area contains the following information:

BRXA_TRAN_AREA_EYECATCHER

An eyecatcher to identify the area as an BRXA Transaction Area.

This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA_TRAN_AREA_EYE (>BRTRANA), which is defined in the DFHBRACx copy book.

BRXA_BRIDGE_TRANID

The transaction id of the Bridge Transaction.

BRXA_TRANID

The transaction id of the user transaction.

BRXA_NEXTTRANID

The transaction id of the next transaction.

BRXA_ABEND_CODE

If the User Transaction abends, then the abend code is placed here. If the transaction hasn't abended this field is blanks.

BRXA_CALLING_PROG

The name of the program in the User Transaction which issued the command causing the Bridge Exit to be invoked. For the

BRXA_INIT, BRXA_BIND, BRXA_TERM and BRXA_ABEND calls this field is set to blanks.

BRXA_USERID

specifies the userid under whose authority the Linked Transaction is to run.

BRXA_STARTCODE

specifies the type of method which would normally be used to start this transaction. This value is returned in the assign command, but has no other effect on processing. The following values are allowed:

S

START command without data

SD

START command with data

TD

Terminal Input (this is the default value)

If an invalid value is specified the value TD is assumed.

On invocation of the Bridge Exit for TERM and ABEND processing, this field contains the start code appropriate to the BRXA_NEXTTRANID value.

BRXA_LOAD_ADS_DESCRIPTOR

If this one character field is set to 'Y' by the Bridge Transaction, then for BMS SEND MAP and RECEIVE MAP, CICS will load the mapset and locate the ADS descriptor for the map, and the address of this descriptor will be passed to the LT exit in the command area. The format of this descriptor is defined in ADS_ descriptor. If this field has any value other than 'Y', then CICS will not attempt to load the mapset and locate the descriptor, and brxa_ADS_descriptor_ptr will be set to null.

BRXA_TRACE

This field is set to 'Y' if level 2 tracing is set on for BR.

The exit should use this flag to trace important information for diagnostic purposes. In particular the input and output data should be traced. Note that for BR level 2 tracing, the BRXA is already traced by CICS on input and output.

BRXA_FACILITYLIKE

The name of an installed 3270 terminal to be used as a template terminal definition for constructing the bridge facility.

If a value is not specified CICS will look for a value specified as FACILITYLIKE in the user transaction's profile. If this value is also blanks, CICS will use the new CICS-supplied definition CBRF (based on model DFHLU2).

If the specified FACILITYLIKE does not exist the Bridge CICS abends the transaction ABRJ.

It is not possible to change the FACILITYLIKE definition after the terminal has been created, so this parameter is ignored if FACILITYTYPE is specified.

If the template terminal definition is defined with QUERY(COLD) or QUERY(ALL) this will be ignored, and the predefined characteristics used.

BRXA_ FACILITY_ KEEP_ TIME
 This field specifies the time (in seconds) that the Bridge Facility will be kept after the User transaction terminates. If a non zero value is set in this field the Bridge Facility, and its pseudo conversational data will remain.

This field is initially set to zero on the BRXA_ INIT call. The exit only needs to set the value in the BRXA_ TERM call.

The maximum value is 1 week (604800 seconds). If a value larger than this is specified, CICS will keep the Bridge Facility for 1 week.

BRXA_ FACILITYTYPE
 A token representing the Bridge Facility to be used. This value can be set on the BRXA_ INIT call.

Specifying a value implies reusing a Bridge Facility kept when a previous Bridge ran a user transaction, and kept the terminal.

The default value of nulls will result in CICS dynamically allocating a new Bridge Facility.

The name of the Bridge facility used is accessible to the user transaction in the EIBTRMID field of the EIB. No other TERMID's in the system will be the same, although the name may be re-used almost immediately when the user transaction finishes.

BRXA_ SCREEN_ HEIGHT
 The current screen height

BRXA_ SCREEN_ WIDTH
 The current screen width

BRXA_ ALTERNATE_ SCREEN_ HEIGHT
 The alternate screen height

BRXA_ ALTERNATE-SCREEN_ WIDTH
 The alternate screen width

BRXA_ IDENTIFIER
 a 48 character field which can be used by the exit routine to associate the request with the specific use of the exit (for example, the MQ correlator for the MQ bridge, and the TCP/IP id for the Web).

BRXA_ FORMATTER
 An 8 byte character field to be used by the exit routine to specify the name of a formatter. If a value is specified in this field, then the formatter is called for BMS, TC, and IC requests. The bridge exit is only called for XM, SYNC and MSG requests.

BRXA_ CALL_ EXIT_ FOR_ SYNC
 Should the bridge exit be called for syncpoint.

BRXA_ NEXTTRANID_ SOURCE
 How was the next transid created?

BRXA_ IMMEDIATE By a RETURN TRANSID IMMEDIATE command
BRXA_ STARTED By a START TRANSID command
BRXA_ NORMAL By a RETURN TRANSID or SET NEXTTRANID command

BRXA_ BRDATA_ PTR
 Address of the data specified by the BRDATA parameter on the START TRANSID BREXIT command.

BRXA_ BRDATA_ LEN
 Length of the BRDATA, as given on the START TRANSID BREXIT command.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-----------------|
| (0) | STRUCTURE | 180 | BRXA_TRANSACTION_ AREA | |
| (0) | CHARACTER | 8 | BRXA_TRAN_ AREA_EYECATCHER | |
| (8) | CHARACTER | 4 | BRXA_BRIDGE_ TRANID | |
| (C) | CHARACTER | 4 | BRXA_TRANID | |
| (10) | CHARACTER | 4 | BRXA_NEXTTRANID | |
| (14) | CHARACTER | 4 | BRXA_ABEND_CODE | |
| (18) | CHARACTER | 8 | BRXA_CALLING_ PROG | |
| (20) | CHARACTER | 8 | BRXA_USERID | |
| (28) | CHARACTER | 8 | * | reserved applid |
| (30) | CHARACTER | 2 | BRXA_STARTCODE | |
| (32) | CHARACTER | 1 | BRXA_LOAD_ ADS_DESCRIPTOR | |
| (33) | CHARACTER | 1 | BRXA_TRACE | |
| (34) | CHARACTER | 4 | BRXA_FACILITYLIKE | |
| (38) | UNSIGNED | 4 | BRXA_FACILITY_ KEEP_ TIME | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|----------------------------------|---------------|
| (3C) | CHARACTER | 8 | BRXA_FACILITY_ TOKEN | |
| (44) | HALFWORD | 2 | BRXA_SCREEN_ HEIGHT | |
| (46) | HALFWORD | 2 | BRXA_SCREEN_ WIDTH | |
| (48) | HALFWORD | 2 | BRXA_ALTERNATE_ SCREEN_HEIGHT | |
| (4A) | HALFWORD | 2 | BRXA_ALTERNATE_ SCREEN_WIDTH | |
| (4C) | CHARACTER | 48 | BRXA_IDENTIFIER | |
| new for CTS 1.3 | | | | |
| (7C) | CHARACTER | 8 | BRXA_FORMATTER | |
| (84) | CHARACTER | 1 | BRXA_CALL_ EXIT_FOR_SYNC | |
| (85) | CHARACTER | 1 | BRXA_NEXTTRANID_ SOURCE | |
| (86) | CHARACTER | 6 | * | |
| (8C) | CHARACTER | 8 | * | reserved |
| (94) | ADDRESS | 4 | BRXA_BRDATA_PTR | |
| (98) | FULLWORD | 4 | BRXA_BRDATA_LEN | |
| (9C) | CHARACTER | 4 | BRXA_INTERVAL | |
| (A0) | CHARACTER | 4 | BRXA_TIME | |
| (A4) | FULLWORD | 4 | BRXA_HOURS | |
| (A8) | FULLWORD | 4 | BRXA_MINUTES | |
| (AC) | FULLWORD | 4 | BRXA_SECONDS | |
| (B0) | CHARACTER | 1 | BRXA_START_AFTER | |
| (B1) | CHARACTER | 1 | BRXA_START_AT | |
| (B2) | CHARACTER | 2 | * | For alignment |
| (B4) | CHARACTER | | * | |

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The command area contains information relating to the command which has caused the Bridge Exit to be called.

Some fields are common for all commands, and there are some fields for specific commands.

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The common fields of the command area are:

BRXA_COMMAND_AREA_EYECATCHER

An eyecatcher to identify the area as an LT Command Area. This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA_COMMAND_AREA_EYE (>BRCOMMA), which is defined in the DFHBRACx copy book.

BRXA_FUNCTION_CODE

A two character code identifying the CICS function for which the Bridge Exit is called. For calls for Initialise Transaction, Terminate Transaction and Abend Transaction this is 'XM'. For all other requests, this is the value in the first byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

BRXA_COMMAND_CODE

A two character code identifying the CICS command for which the Bridge Exit is called. For Initialise Transaction this is 'IN', for Terminate Transaction this is 'TM' and, for Abend Transaction this is 'AB'. For all other requests, this is the value in the second byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

BRXA_USER_ABEND_CODE

If this field is set to a non blank value (the default), CICS will generate a transaction abend with this code.

Note that if the exit issues an EXEC CICS ABEND requests, this will result in a CICS DUMP, and will disable the exit.

BRXA_FROM_PTR

The address of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command.

BRXA_FROM_LEN

The length of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command. The length is a fullword.

BRXA_INT0_PTR

The address of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy data from this address into the INTO area specified on the command, or will copy the address into the SET parameter specified on the command.

BRXA_INT0_LEN

The length of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy this value into LENGTH, FLENGTH or INTOLENGTH parameter specified on the command, and use the value when copying data into the INTO area. The length is a fullword.

NOTE: CONVERSE is the only command which has both FROM and INTO, and the BRXA_FROM_PTR and BRXA_INT0_PTR (and corresponding lengths) could be replaced by a single BRXA_DATA_PTR (and BRXA_DATA_LEN), and in the case of CONVERSE the exit would replace the FROM address and length by the INTO address and length.

BRXA_RESP

The resp code to be set (by CICS) in EIBRESP. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS will generate an ABRN transaction abend if the value returned is not one that could normally be produced by CICS for this command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

BRXA_RESP2

The resp code to be set (by CICS) in EIBRESP2. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS does not check the value specified for consistency with the command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

BRXA_CPOSN

The cursor position to be set (by CICS) in EIBCPOSN for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to zero by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBCPOSN.

BRXA_AID

The attention id (PF key code) to be set (by CICS) in EIBAID for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to ENTER (X'7D') by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBAID. The exit can use the values defined in DFHAID copy books to set the value (these are EBCDIC values of the 3270 AID characters).

BRXA_ERASE_INDICATOR

A one character value which is set (by CICS) to indicate whether ERASE, ERASE ALTERNATE or ERASE DEFAULT is specified on SEND, CONVERSE SEND MAP, SEND TEXT or SEND CONTROL commands. Constants with meaningful names are provided for all languages to allow the Bridge Exit to test this value if necessary.

BRXA_LAST_INDICATOR

a one character field indicating whether LAST specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_WAIT_INDICATOR

a one character field indicating whether WAIT specified on SEND, RETRIEVE or ISSUE ERASEAUP. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FMT_RESPONSE

This field is used by the formatter to tell the CICS that the bridge exit should be called to read or write a message.

Possible values are:

BRXA_FMT_NONE

No action. The formatter has processed the request.

BRXA_FMT_OUTPUT_BUFFER_FULL

There is no room to add the next vector. Call the bridge exit to write the message, clear the buffer, then call the formatter again.

BRXA_FMT_WRITE_MESSAGE

The request required data to be flushed. Call the bridge exit to write the message.

BRXA_FMT_REQUEST_NEXT_MESSAGE

The formatter has run out of data in the message. Call the bridge exit to read a message, then call the formatter again.

BRXA_FMT_READ_MESSAGE_NOWAIT

The formatter has run out of data in the message. Check to see if there is a new message before requesting any further input. Call the bridge exit to read a message, then call the formatter again.

BRXA_READ_NOWAIT_ISSUED

This field is used by the formatter to check if it has already returned a brxa_fmt_read_message_nowait for this command.

BRXA_NO

A brxa_fmt_read_message_nowait has not been returned for this command.

BRXA_YES

A brxa_fmt_read_message_nowait has been returned for this command.

BRXA_REQUEST_NEXT_ISSUED

This field is used by the formatter to check if it has already returned a brxa_fmt_request_next_message for this command.

BRXA_NO

A brxa_fmt_request_next_message has not been returned for this command.

BRXA_YES

A brxa_fmt_request_next_message has been returned for this command.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|----------------------------------|-------------|
| (0) | STRUCTURE | 48 | BRXA_COMMAND_COMMON | |
| (0) | CHARACTER | 8 | BRXA_COMMAND_ AREA_EYECATCHER | |
| (8) | CHARACTER | 2 | BRXA_FUNCTION_CODE | |
| (A) | CHARACTER | 2 | BRXA_COMMAND_CODE | |
| (C) | CHARACTER | 4 | BRXA_USER_ ABEND_CODE | |
| (10) | ADDRESS | 4 | BRXA_FROM_PTR | |
| (14) | FULLWORD | 4 | BRXA_FROM_LEN | |
| (18) | ADDRESS | 4 | BRXA_INT0_PTR | |
| (1C) | FULLWORD | 4 | BRXA_INT0_LEN | |
| (20) | HALFWORD | 2 | BRXA_RESP | |
| (22) | HALFWORD | 2 | BRXA_RESP2 | |
| (24) | HALFWORD | 2 | BRXA_CPOSN | |
| (26) | CHARACTER | 1 | BRXA_AID | |
| (27) | CHARACTER | 1 | BRXA_ERASE_INDICATOR | |
| (28) | CHARACTER | 1 | BRXA_LAST_INDICATOR | |
| (29) | CHARACTER | 1 | BRXA_WAIT_INDICATOR | |
| <hr/> | | | | |
| new for CTS 1.3 | | | | |
| (2A) | CHARACTER | 1 | BRXA_FMT_RESPONSE | |
| (2B) | CHARACTER | 1 | BRXA_READ_ NOWAIT_ISSUED | |
| (2C) | CHARACTER | 1 | BRXA_REQUEST_ NEXT_ISSUED | |
| (2D) | CHARACTER | 3 | * | reserved |

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This command area defines actions at the initialisation and termination of the bridge. There are four functions:

Init

The purpose of this call is for the Bridge Exit pass CICS various parameters to run the transaction. Typically the BRDATA will be used to obtain this information.

The following values can be set in the transaction and common areas area for this request.

- BRXA_STARTCODE
- BRXA_LOAD_ADS_DESCRIPTOR
- BRXA_FACILITYLIKE
- BRXA_FACILITY_TOKEN
- BRXA_USER_ABEND_CODE
- BRXA_IDENTIFIER
- BRXA_FORMATTER

Requests using recoverable resources can not be made in this call.

Bind

The purpose of this call is for the Bridge Exit to obtain data to answer 3270 requests in subsequent calls.

Recoverable requests can be made in this call.

The exit must not use the TWA, as this is not setup for the Bridge.

The following values can be set in the transaction and common areas area for this request.

- BRXA_STARTCODE
- BRXA_LOAD_ADS_DESCRIPTOR
- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE
- BRXA_IDENTIFIER

Term

The purpose of this call is to inform the Bridge Exit that the user transaction is terminating. It also identifies the next transaction if this has been specified by the user transaction.

This call is not made if the user transaction abends.

Recoverable requests can be made in this call.

The following values can be set in the transaction and common areas area for this request.

- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE

Abend

In the event of the user transaction abending this call allows the Bridge Exit to issue non recoverable requests to the external resource, for example a non-syncpointing MQPUT can be issued for the MQ Bridge.

The call can also change the abend code.

Recoverable requests can not be made in this call.

The following values can be set in the transaction and common areas area for this request Any other values are ignored.

- BRXA_FACILITY_KEEP_TIME
- BRXA_USER_ABEND_CODE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 48 | BRXA_XM_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | | * | |

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The Terminal Control command interface overlays the common command interface, and defines some Terminal Control specific parameters.

Commands supported are SEND, RECEIVE and CONVERSE.

The terminal control specific parameters are

BRXA_CTLCHAR
 The 3270 Write Control Character (WCC) passed on SEND and CONVERSE commands as CTLCHAR. If not specified on the command the default value (X'C3'- unlock keyboard, reset MDT flags) is passed to the exit.

BRXA_BUFFER_INDICATOR
 a one character field indicating whether BUFFER specified on RECEIVE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

(BUFFER is not allowed on CONVERSE - diagnosed by translator)

BRXA_STRFIELD_INDICATOR
 a one character field indicating whether STRFIELD specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_DEFRESP_INDICATOR
 a one character field indicating whether DEFRESP specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_INVITE_INDICATOR
 a one character field indicating whether INVITE specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 53 | BRXA_TC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 1 | BRXA_CTLCHAR | |
| (31) | CHARACTER | 1 | BRXA_BUFFER_ INDICATOR | |
| (32) | CHARACTER | 1 | BRXA_STRFIELD_ INDICATOR | |
| (33) | CHARACTER | 1 | BRXA_DEFRESP_ INDICATOR | |
| (34) | CHARACTER | 1 | BRXA_INVITE_ INDICATOR | |

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The BMS command interface overlays the common command interface, and defines some BMS specific parameters.

Commands supported are SEND MAP, SEND TEXT, SEND CONTROL and RECEIVE MAP.

The BMS specific parameters are:

BRXA_MAPSET

The (unsuffix) mapset name specified on SEND MAP or RECEIVE MAP.

BRXA_MAP

The map name specified on SEND MAP or RECEIVE MAP.

BRXA_ADS_DESCRIPTOR_PTR

The address of the ADS descriptor for BMS SEND MAP and RECEIVE MAP commands. This will be set by the interface code, if the Bridge has set the flag in the BRXA indicating that the descriptor should be loaded, and if the relevant mapset has been regenerated to include the descriptor. Otherwise this pointer will be set to 0.

BRXA_CURSOR

A halfword value containing the CURSOR position specified on SEND MAP, SEND TEXT or SEND CONTROL command, which identifies where the cursor is to be positioned on the 3270 screen. A value of -1 is passed if the application specified CURSOR with no value on SEND MAP command, indicating that symbolic cursor positioning is required, that is, that the cursor is to be positioned in the first field in the application data structure that has a value of -1 in the corresponding length field. A value of -2 is passed if the application did not specify CURSOR on the SEND MAP command.

BRXA_MSR_DATA

The four character value specified in MSR on SEND MAP, SEND CONTROL or SEND TEXT command. Constants are provided in the copy book DFHMSRCA which will allow the exit to test the values specified.

NOTE: If we can assume that a BFB will always be constructed as if its TYPETERM was defined with MSRCONTROL(NO), then this parameter could be omitted, as for a 3270 terminal for which MSRCONTROL(NO) is specified, BMS ignores the MSR field specified on the command.

BRXA_DATA_INDICATOR

a one character field indicating whether DATAONLY, MAPONLY or neither are specified on the SEND MAP command. Valid values are 'D' (DATAONLY), 'M' (MAPONLY) or 'N' (neither specified) and constants are provided for the exit to test this field. (Note that if MAPONLY is specified, the FROM pointer and length will be zero, as there is no Application Data Structure in this case.)

BRXA_ERASEAUP_INDICATOR

a one character field indicating whether ERASAUP is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FREEKB_INDICATOR

a one character field indicating whether FREEKB is specified on a SEND MAP SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_ALARM_INDICATOR

a one character field indicating whether ALARM is specified on a SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_MSR_INDICATOR

a one character field indicating whether MSR is specified on a SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_FRSET_INDICATOR

a one character field indicating whether FRSET is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

BRXA_TEXT_TYPE

a one character field indicating whether NOEDIT or MAPPED is specified on a SEND TEXT command. Valid values are ' ' (neither NOEDIT nor MAPPED specified), 'N' (NOEDIT specified) and 'M' (MAPPED specified) and constants are provided for the exit to test this field.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | 81 | BRXA_BMS_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 7 | BRXA_MAPSET | |
| (37) | CHARACTER | 1 | * | reserved |
| (38) | CHARACTER | 7 | BRXA_MAP | |
| (3F) | CHARACTER | 1 | * | reserved |
| (40) | ADDRESS | 4 | BRXA_ADS_ | |
| | | | DESCRIPTOR_PTR | |
| (44) | HALFWORD | 2 | BRXA_CURSOR | |
| (46) | CHARACTER | 4 | BRXA_MSR_DATA | |
| (4A) | CHARACTER | 1 | BRXA_DATA_ INDICATOR | |
| (4B) | CHARACTER | 1 | BRXA_ERASEAUP_ | |
| | | | INDICATOR | |
| (4C) | CHARACTER | 1 | BRXA_FREEKB_ | |
| | | | INDICATOR | |
| (4D) | CHARACTER | 1 | BRXA_ALARM_ INDICATOR | |
| (4E) | CHARACTER | 1 | BRXA_FRSET_ INDICATOR | |
| (4F) | CHARACTER | 1 | BRXA_MSR_ INDICATOR | |
| (50) | CHARACTER | 1 | BRXA_TEXT_TYPE | |

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The Interval Control command interface overlays the common command interface, and defines some Interval Control specific parameters.

The only command supported is RETRIEVE.

The Interval Control specific parameters are:

BRXA_RTERMID
 The value of RTERMID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTERMID value back to the application issuing the RETRIEVE.

BRXA_RTRANSID
 The value of RTRANSID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTRANSID value back to the application issuing the RETRIEVE.

BRXA_QUEUE
 The value of QUEUE specified on START command. For the RETRIEVE command this is a field in which the Bridge Exit can set the QUEUE value to be used by the application issuing the RETRIEVE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 64 | BRXA_IC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 4 | BRXA_RTERMID | |
| (34) | CHARACTER | 4 | BRXA_RTRANSID | |
| (38) | CHARACTER | 8 | BRXA_QUEUE | |

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This command area defines actions at syncpoint and syncpoint rollback. brxa_ explicit is used to indicate whether this request originated from an explicit EXEC CICS SYNCPOINT command, or whether it is an implicit syncpoint generated by CICS. It will be set to 'Y' or 'N' prior to invoking the exit, and constants are provided for the exit to test this field. Valid values for rollback are 'Y' or 'N', and constants are provided for the exit to test this field.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 50 | BRXA_SYNC_COMMAND | |
| (0) | CHARACTER | 48 | * | |
| (30) | CHARACTER | 1 | BRXA_EXPLICIT | |
| (31) | CHARACTER | 1 | BRXA_ROLLBACK | |

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This command area defines actions when the bridge exit is called to read or write a message. These functions are only used if the bridge exit specified a formatter on initialisation.

This command area defines the following functions:

Init

The purpose of this call is for the Bridge Exit pass CICS various parameters to run the transaction. Typically the BRDATA will be used to obtain this information.

The following values can be set in the transaction and common areas area for this request.

- BRXA_ STARTCODE
- BRXA_ LOAD_ADS_ DESCRIPTOR
- BRXA_ FACILITYLIKE
- BRXA_ FACILITY_TOKEN
- BRXA_ USER_ABEND_CODE
- BRXA_ IDENTIFIER

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------------|-------------|
| Hex | | | | |
| (0) | STRUCTURE | 48 | BRXA_MSG_COMMAND | |
| (0) | CHARACTER | 48 | * | |

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The ADS descriptor is provided to allow interpretation of the BMS Application Data Structure - that is, the structure used by the application program for the data in SEND and RECEIVE MAP requests - by an exit program, without requiring the exit program to include the relevant copy book at compile time.

The ADS descriptor is only available if the map load module has been reassembled to include the descriptor, and CICS only attempts to locate the descriptor if the brxa_load_ADS_descriptor indicator is set to brxa_yes in the Bridge Exit initialisation call.

The ADS descriptor contains a header containing general information about the map, together with a field descriptor for every field which appears in the ADS, that is every named field in the map definition macro.

The header consists of the following information

ADSD_LENGTH

The length of the ADS descriptor

ADSD_EYECATCHER

An eyecatcher ('ADSD') to identify this as an ADS descriptor

ADSD_MAP_INDEX

The index of the map within the mapset. This is needed to determine the HTML template corresponding to the map.

ADSD_FIELD_COUNT

the number of fields within the ADS, that is the number of named fields in the map definition macros. A separate field is counted for each element of an array defined with the OCCURS parameter, but subfields of group fields (GRPNAME) are not counted. The field count may be zero, in which case there are no field descriptors following the header.

ADSD_STRUCTURE_LENGTH

the length of the application data structure

ADSD_ATTRIBUTE_NUMBER

the number of extended attributes in each field of the ADS, that is the number of attributes specified in DSATTS in the map definition.

ADSD_ATTRIBUTE_TYPE_CODES

one character code for the attribute types in each field, in order, derived from DSATTS

- C = COLOR

- P = PS

- H = HIGHLIGHT

- V = VALIDN

- O = OUTLINE

- S = SOSI

- T = TRANSP

ADSD_MAP_JUSTIFY_HOR

the horizontal justification for the map, either L (LEFT) or R (RIGHT) from JUSTIFY operand on map definition.

ADSD_MAP_JUSTIFY_VER

the vertical justification for the map, from JUSTIFY operand on map definition. This can have the values F (FIRST), L (LAST) or B (BOTTOM) or blank (no vertical JUSTIFY operand).

ADSD_MAP_STARTING_LINE

the starting line for the map, from LINE operand on DFHMDI macro (LINE = NEXT will give a value of 255, LINE = SAME will give a value of 254)

ADSD_MAP_STARTING_COLUMN

the starting column for the map, from COLUMN operand on DFHMDI macro (COLUMN = NEXT will give a value of 255, COLUMN = SAME will give a value of 254)

ADSD_MAP_LINES

the number of lines in the map from SIZE= operand

ADSD_MAP_COLUMNS

the number of columns in the map from SIZE= operand

ADSD_WRITE_CONTROL_CHAR

the 3270 encoded WCC derived from CONTROL= operand

ADSD_FIRST_FIELD

the first field descriptor occurs here. Use the address of ADSD_FIRST_FIELD as the initial value of the pointer for the field descriptor (unless ADSD_field_count is 0).

The field descriptor for each field within the map consists of

ADSD_FIELD_NAME
the unsuffixed field name padded with blanks

ADSD_FIELD_NAME_LEN
the number of characters in the field name

ADSD_OCCURS_INDEX
when OCCURS is specified for a field definition there will be a separate field descriptor for each element of the array, and occurs_ index will indicate the array index for the particular field if OCCURS not specified, then occurs_ index will be 0

ADSD_FIELD_OFFSET
the offset of the field within the ADS the offset is to the beginning of the (halfword) length field, and users must add 2 (for the length field) + 1 (for the 3270 attribute) + attribute_ number (for the extended attributes specified in DSATTS) to get the offset of the data part of the field

ADSD_FIELD_DATA_LEN
the length of the field in the ADS

ADSD_FIELD_JUSTIFY
indicates whether the data is to be justified left (L) or right (R) if the supplied length is less than the length in the ADS

ADSD_FIELD_FILL_CHAR
the character (blank or '0') to be used to fill the remainder of the field in the ADS.

ADSD_NEXT_FIELD
the next field descriptor occurs here. Use the address of ADSD_ NEXT_FIELD to update the pointer for the field descriptor.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------------------|-------------|
| (0) | STRUCTURE | * | ADS_DESCRIPTOR | |
| (0) | HALFWORD | 2 | ADSD_LENGTH | |
| (2) | CHARACTER | 4 | ADSD_EYECATCHER | |
| (6) | HALFWORD | 2 | ADSD_MAP_INDEX | |
| (8) | HALFWORD | 2 | ADSD_FIELD_COUNT | |
| (A) | HALFWORD | 2 | ADSD_STRUCTURE_LENGTH | |
| (C) | HALFWORD | 2 | ADSD_ATTRIBUTE_NUMBER | |
| (E) | CHARACTER | 1 | ADSD_ATTRIBUTE_TYPE_CODES (12) | |
| (1A) | CHARACTER | 1 | ADSD_MAP_JUSTIFY_HOR | |
| (1B) | CHARACTER | 1 | ADSD_MAP_JUSTIFY_VER | |
| (1C) | HALFWORD | 2 | ADSD_MAP_STARTING_LINE | |
| (1E) | HALFWORD | 2 | ADSD_MAP_STARTING_COLUMN | |
| (20) | HALFWORD | 2 | ADSD_MAP_LINES | |
| (22) | HALFWORD | 2 | ADSD_MAP_COLUMNS | |
| (24) | CHARACTER | 1 | ADSD_WRITE_CONTROL_CHAR | |
| (25) | CHARACTER | 1 | * | |
| (26) | CHARACTER | * | ADSD_FIRST_FIELD | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | * | ADS_FIELD_DESCRIPTOR | |
| (0) | CHARACTER | 32 | ADSD_FIELD_NAME | |
| (20) | HALFWORD | 2 | ADSD_FIELD_NAME_LEN | |
| (22) | HALFWORD | 2 | ADSD_OCCURS_INDEX | |
| (24) | HALFWORD | 2 | ADSD_FIELD_OFFSET | |
| (26) | HALFWORD | 2 | ADSD_FIELD_DATA_LEN | |
| (28) | CHARACTER | 1 | ADSD_FIELD_JUSTIFY | |
| (29) | CHARACTER | 1 | ADSD_FIELD_FILL_CHAR | |
| (2A) | CHARACTER | * | ADSD_NEXT_FIELD | |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|-------------|
| (0) | STRUCTURE | * | ADS_LONG_DESCRIPTOR | |
| (0) | FULLWORD | 4 | ADSDL_LENGTH | |
| (4) | CHARACTER | 4 | ADSDL_EYECATCHER | |
| (8) | FULLWORD | 4 | ADSDL_MAP_INDEX | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------------------|-------------|
| (C) | FULLWORD | 4 | ADSDL_FIELD_COUNT | |
| (10) | FULLWORD | 4 | ADSDL_STRUCTURE_LENGTH | |
| (14) | FULLWORD | 4 | ADSDL_ATTRIBUTE_NUMBER | |
| (18) | CHARACTER | 1 | ADSDL_ATTRIBUTE_TYPE_CODES (12) | |
| (24) | CHARACTER | 1 | ADSDL_MAP_JUSTIFY_HOR | |
| (25) | CHARACTER | 1 | ADSDL_MAP_JUSTIFY_VER | |
| (26) | CHARACTER | 2 | * | |
| (28) | FULLWORD | 4 | ADSDL_MAP_STARTING_LINE | |
| (2C) | FULLWORD | 4 | ADSDL_MAP_STARTING_COLUMN | |
| (30) | FULLWORD | 4 | ADSDL_MAP_LINES | |
| (34) | FULLWORD | 4 | ADSDL_MAP_COLUMNS | |
| (38) | CHARACTER | 1 | ADSDL_WRITE_CONTROL_CHAR | |
| (39) | CHARACTER | 3 | * | |
| (3C) | CHARACTER | * | ADSDL_FIRST_FIELD | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------------|-------------|
| (0) | STRUCTURE | * | ADS_LONG_FIELD_DESCRIPTOR | |
| (0) | CHARACTER | 32 | ADSDL_FIELD_NAME | |
| (20) | FULLWORD | 4 | ADSDL_FIELD_NAME_LEN | |
| (24) | FULLWORD | 4 | ADSDL_OCCURS_INDEX | |
| (28) | FULLWORD | 4 | ADSDL_FIELD_OFFSET | |
| (2C) | FULLWORD | 4 | ADSDL_FIELD_DATA_LEN | |
| (30) | CHARACTER | 1 | ADSDL_FIELD_JUSTIFY | |
| (31) | CHARACTER | 1 | ADSDL_FIELD_FILL_CHAR | |
| (32) | CHARACTER | 2 | * | |
| (34) | CHARACTER | * | ADSDL_NEXT_FIELD | |

CDBLK Convdata block

CONTROL BLOCK NAME = DFHCDBLK
 DESCRIPTIVE NAME = CICS CONVDATA Block.
 FUNCTION = CONVDATA interface block
 This data area is specified on the CONVDATA option in GDS commands (see the CICS Distributed Transaction Processing Guide for a description of GDS commands for LU6.2).
 An application program can include the Assembler or C versions of the copybook to define the area.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 24 | DFHCDBLK | CONVDATA BLOCK |
| (0) | CHARACTER | 1 | CDBCAMPL | X'FF' DATA COMPLETE |
| (1) | CHARACTER | 1 | CDBSYNC | X'FF' SYNCPOINT REQUESTED |
| (2) | CHARACTER | 1 | CDBFREE | X'FF' FREE REQUESTED |
| (3) | CHARACTER | 1 | CDBRECV | X'FF' RECEIVE REQUIRED |
| (4) | CHARACTER | 1 | CDBSIG | X'FF' SIGNAL RECEIVED |
| (5) | CHARACTER | 1 | CDBCONF | X'FF' CONFIRM REQUESTED |
| (6) | CHARACTER | 1 | CDBERR | X'FF' ERROR RECEIVED |
| (7) | CHARACTER | 4 | CDBERRCD | ERROR CODE RECEIVED |
| (B) | CHARACTER | 1 | CDBSYNRB | X'FF' SYNC ROLLBACK REQUESTED |
| (C) | CHARACTER | 12 | CDBRSVD | RESERVED |

CFS6D Cfdt server cf statistics

CONTROL BLOCK NAME = DFHCFS6D
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for list structure.
 FUNCTION = CF Statistics for list structure usage and access.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | | | DFHCFS6D | , CF list structure statistics record |
| (0) | FULLWORD | 4 | S6 (0) | Start of record |
| (0) | HALFWORD | 2 | S6LEN | Length of data area |
| | .111 111. | | S6IDE | "0126" List structure stats mask |
| (2) | ADDRESS | 2 | S6ID | List structure stats id |
| |1 | | S6VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S6DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |

Coupling facility list structure status information.

| | | | | |
|------|-----------|----|--------------|-------------------------------------|
| (8) | CHARACTER | 16 | S6NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S6PREF | First part of structure name |
| (10) | CHARACTER | 8 | S6POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S6CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S6CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S6CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S6SIZE | Structure size (unsigned fullword) |
| (2C) | ADDRESS | 4 | S6SIZEMX | Maximum structure size |
| (30) | FULLWORD | 4 | S6HDRS | Maximum number of list headers |
| (34) | FULLWORD | 4 | S6HDRSCT | Headers used for control lists |
| (38) | FULLWORD | 4 | S6HDRSTD | Headers available for table data |
| (3C) | FULLWORD | 4 | S6ELEMNL | Data element size as a fullword |
| (40) | ADDRESS | 4 | S6ELEMPLW | Data element size as power of 2 |
| (44) | ADDRESS | 4 | S6ELEMPE | Max elements per entry (for 32K) |
| (48) | FULLWORD | 4 | S6ELEMRT | Element side of entry:element ratio |
| (4C) | FULLWORD | 4 | S6ENTRRT | Entry side of entry:element ratio |

Usage statistics.

Entry and element usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

| | | | | |
|------|----------|---|----------|-----------------------------------|
| (50) | FULLWORD | 4 | S6ENTRCT | Current number of entries in use |
| (54) | FULLWORD | 4 | S6ENTRHI | Highest number of entries in use |
| (58) | FULLWORD | 4 | S6ENTRLO | Lowest number of free entries |
| (5C) | FULLWORD | 4 | S6ENTRMX | Max entries returned by IXLCONN |
| (60) | FULLWORD | 4 | S6ELEMCT | Current number of elements in use |
| (64) | FULLWORD | 4 | S6ELEMHI | Highest number of elements in use |
| (68) | FULLWORD | 4 | S6ELEMLO | Lowest number of free elements |
| (6C) | FULLWORD | 4 | S6ELEMXX | Max elements returned by IXLCONN |

List entry counts returned by IXLLIST requests.

Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent.

| | | | | |
|------|----------|---|--------------|-----------------------------------|
| (70) | DBL WORD | 8 | S6USEVEC (0) | Usage vector, five pairs of words |
| (70) | FULLWORD | 4 | S6USEDCT | Number of entries on used list |
| (74) | FULLWORD | 4 | S6USEDHI | Highest entries on used list |
| (78) | FULLWORD | 4 | S6FREECT | Number of entries on free list |
| (7C) | FULLWORD | 4 | S6FREEHI | Highest entries on free list |
| (80) | FULLWORD | 4 | S6INDXCT | Number of entries in table index |
| (84) | FULLWORD | 4 | S6INDXHI | Highest entries in table index |
| (88) | FULLWORD | 4 | S6APPLCT | Number of entries in APPLID list |
| (8C) | FULLWORD | 4 | S6APPLHI | Highest entries in APPLID list |
| (90) | FULLWORD | 4 | S6UOWLCT | Number of entries in UOW list |
| (94) | FULLWORD | 4 | S6UOWLHI | Highest entries in UOW list |

Coupling facility I/O statistics.

Statistics for each main type of CF request.

| | | | | |
|------|----------|---|---------|------------------------------------|
| (98) | FULLWORD | 4 | S6RDICT | Read table index entry |
| (9C) | FULLWORD | 4 | S6WRICT | Write table index entry |
| (A0) | FULLWORD | 4 | S6RWICT | Rewrite table index entry |
| (A4) | FULLWORD | 4 | S6DLICT | Delete table index entry |
| (A8) | FULLWORD | 4 | S6CRLCT | Create list |
| (AC) | FULLWORD | 4 | S6MDLCT | Modify list |
| (B0) | FULLWORD | 4 | S6DLLCT | Delete list (1 per overall delete) |
| (B4) | FULLWORD | 4 | S6RDDCT | Read data item |
| (B8) | FULLWORD | 4 | S6WRDCT | Write data item |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|----------|-----|------------|--|
| (BC) | FULLWORD | 4 | S6RWDCT | Rewrite data item |
| (C0) | FULLWORD | 4 | S6DLCT | Delete data item |
| (C4) | FULLWORD | 4 | S6INLCT | Inquire on data list |
| (C8) | FULLWORD | 4 | S6RDMCT | Read message queue |
| (CC) | FULLWORD | 4 | S6WRMCT | Write to message queue |
| (D0) | FULLWORD | 4 | S6RDUCT | Read UOW entry |
| (D4) | FULLWORD | 4 | S6WRUCT | Write UOW entry |
| (D8) | FULLWORD | 4 | S6RWUCT | Rewrite UOW entry |
| (DC) | FULLWORD | 4 | S6DLUCT | Delete UOW entry |
| (E0) | FULLWORD | 4 | S6RDACT | Read APPLID entry |
| (E4) | FULLWORD | 4 | S6WRACT | Write APPLID entry |
| (E8) | FULLWORD | 4 | S6RWACT | Rewrite APPLID entry |
| (EC) | FULLWORD | 4 | S6DLACT | Delete APPLID entry |
| Statistics for internal CF requests. | | | | |
| (F0) | FULLWORD | 4 | S6RRLCT | Reread entry for full data length |
| (F4) | FULLWORD | 4 | S6ASYCT | Number of asynchronous requests |
| IXLLIST completion statistics indexed by internal response value. | | | | |
| (F8) | FULLWORD | 4 | S6RSP1CT | Normal response, everything OK |
| (FC) | FULLWORD | 4 | S6RSP2CT | Buffer length was too short for the data, needs full length reread |
| (100) | FULLWORD | 4 | S6RSP3CT | No matching entry was found, indicates table not found in index or record not found in table |
| (104) | FULLWORD | 4 | S6RSP4CT | Entry version did not match, indicates entry updated by another system or duplicate entry exists when attempting to create entry |
| (108) | FULLWORD | 4 | S6RSP5CT | List authority comparison mismatch, caused by table status update |
| (10C) | FULLWORD | 4 | S6RSP6CT | Maximum list key reached, indicates max table size or max tables reached depending on list |
| (110) | FULLWORD | 4 | S6RSP7CT | The list structure is out of space |
| (114) | FULLWORD | 4 | S6RSP8CT | An IXLLIST return code occurred other than those described above |
| (114) | | | S6END | *** |
| (114) | | | S6CLEN | ***S6LEN" Length of this DSECT |

CFS7D Cfdt server table statistics

CONTROL BLOCK NAME = DFHCFS7D
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for table accesses.
 FUNCTION = CF Statistics for table accesses.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|-------------------------------------|
| (0) | | | DFHCFS7D | , CF table access statistics record |
| (0) | FULLWORD | 4 | S7 (0) | Start of record |
| (0) | HALFWORD | 2 | S7LEN | Length of data area |
| | .111 1111 | | S7IDE | "0127" Table access stats mask |
| (2) | ADDRESS | 2 | S7ID | Table access stats id |
| |1 | | S7VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S7DVERS | Table access stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| Coupling facility data table access statistics. | | | | |
| (8) | CHARACTER | 16 | S7TABLE | Table name padded with spaces |
| Statistics vector. | | | | |
| (18) | BITSTRING | 60 | S7STATS (0) | Statistics vector |
| Table control request statistics. | | | | |
| (18) | FULLWORD | 4 | S7OCOPEN | Open table |
| (1C) | FULLWORD | 4 | S7OCCLOS | Close table |
| (20) | FULLWORD | 4 | S7OCSET | Set table attributes |
| (24) | FULLWORD | 4 | S7OCDELE | Delete table |
| (28) | FULLWORD | 4 | S7OCSTAT | Extract table statistics |
| Table access request statistics. | | | | |
| (2C) | FULLWORD | 4 | S7RQPOIN | Point |
| (30) | FULLWORD | 4 | S7RQHIG | Return highest key |
| (34) | FULLWORD | 4 | S7RQREAD | Read (including read for update) |
| (38) | FULLWORD | 4 | S7RQRDDL | Read and delete |
| (3C) | FULLWORD | 4 | S7RQUNLK | Unlock |
| (40) | FULLWORD | 4 | S7RQLOAD | Load |
| (44) | FULLWORD | 4 | S7RQWRIT | Write (new record) |
| (48) | FULLWORD | 4 | S7RQREWR | Rewrite |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------|
| (4C) | FULLWORD | 4 | S7RQDELE | Delete |
| (50) | FULLWORD | 4 | S7RQDELM | Delete multiple |
| | .1.1 .1.. | | S7END | *** |
| | .1.1 .1.. | | S7CLEN | **-S7LEN" Length of this DSECT |

CFS8D Cfdt server request statistics

CONTROL BLOCK NAME = DFHCFS8D
 DESCRIPTIVE NAME = CICS (CFDT) Request statistics.
 FUNCTION = CF data table server request statistics.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | | | DFHCFS8D | , CFDT request statistics record |
| (0) | FULLWORD | 4 | S8 (0) | Start of record |
| (0) | HALFWORD | 2 | S8LEN | Length of data area |
| | 1... | | S8IDE | "0128" Server request stats mask |
| (2) | ADDRESS | 2 | S8ID | Server request stats id |
| |1 | | S8VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S8DVERS | Server request stats version number |
| (5) | CHARACTER | 3 | | Reserved |

Statistics vector.

| | | | | |
|-----|-----------|----|-------------|-------------------|
| (8) | BITSTRING | 88 | S8STATS (0) | Statistics vector |
|-----|-----------|----|-------------|-------------------|

Total table control request statistics for all tables.

| | | | | |
|------|----------|---|----------|--------------------------|
| (8) | FULLWORD | 4 | S8OCOPEN | Open table |
| (C) | FULLWORD | 4 | S8OCCLOS | Close table |
| (10) | FULLWORD | 4 | S8OCSET | Set table attributes |
| (14) | FULLWORD | 4 | S8OCDELE | Delete table |
| (18) | FULLWORD | 4 | S8OCSTAT | Extract table statistics |

Total table access request statistics for all tables.

| | | | | |
|------|----------|---|----------|-----------------------------------|
| (1C) | FULLWORD | 4 | S8RQPOIN | Point to record |
| (20) | FULLWORD | 4 | S8RQHIG | Return highest key |
| (24) | FULLWORD | 4 | S8RQREAD | Read record (includes for update) |
| (28) | FULLWORD | 4 | S8RQRDDL | Read and delete record |
| (2C) | FULLWORD | 4 | S8RQUNLK | Unlock record |
| (30) | FULLWORD | 4 | S8RQLOAD | Load record at initial load time |
| (34) | FULLWORD | 4 | S8RQWRIT | Write new record |
| (38) | FULLWORD | 4 | S8RQREWR | Rewrite existing record |
| (3C) | FULLWORD | 4 | S8RQDELE | Delete record |
| (40) | FULLWORD | 4 | S8RQDELM | Delete multiple records |

Total inquire table statistics.

| | | | | |
|------|----------|---|----------|---------------|
| (44) | FULLWORD | 4 | S8IQINQU | Inquire table |
|------|----------|---|----------|---------------|

Total recovery control request statistics.

| | | | | |
|------|-----------|---|----------|--------------------------------|
| (48) | FULLWORD | 4 | S8SPPREP | Prepare to commit unit of work |
| (4C) | FULLWORD | 4 | S8SPRETA | Retain locks for unit of work |
| (50) | FULLWORD | 4 | S8SPCOMM | Commit unit of work |
| (54) | FULLWORD | 4 | S8SPBACK | Back out unit of work |
| (58) | FULLWORD | 4 | S8SPINQU | Inquire about unit of work |
| (5C) | FULLWORD | 4 | S8SPREST | Restart recoverable connection |
| | .11. | | S8END | *** |
| | .11. | | S8CLEN | **-S8LEN" Length of this DSECT |

CFS9D Cfdt server storage statistics

CONTROL BLOCK NAME = DFHCFS9D
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for server storage.
 FUNCTION = CF Statistics for server main storage usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------------------|
| (0) | | | DFHCFS9D | , CF main storage statistics record |
| (0) | FULLWORD | 4 | S9 (0) | Start of record |
| (0) | ADDRESS | 2 | S9LEN | Length of data area |
| | 1... ..1 | | S9IDE | "0129" CF DT main storage stats mask |
| (2) | ADDRESS | 2 | S9ID | CF DT main storage stats id |
| |1 | | S9VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S9DVERS | CF DT main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed. Statistics for LOC=ANY storage pool.

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (8) | CHARACTER | 8 | S9ANYNAM | Pool name AXMPGANY |
| (10) | FULLWORD | 4 | S9ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S9ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S9ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S9ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S9ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S9ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S9ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S9ANYRQF | Gets which failed to obtain storage |
| (30) | FULLWORD | 4 | S9ANYRQS | Storage FREE requests |
| (34) | FULLWORD | 4 | S9ANYRQC | Compress (defragmentation) attempts |

Statistics for LOC=BELOW storage pool.

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (38) | CHARACTER | 8 | S9LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S9LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S9LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S9LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S9LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S9LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S9LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S9LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S9LOWRQF | Gets which failed to obtain storage |
| (60) | FULLWORD | 4 | S9LOWRQS | Storage FREE requests |
| (64) | FULLWORD | 4 | S9LOWRQC | Compress (defragmentation) attempts |
| | .11. 1... | | S9END | *** |
| | .11. 1... | | S9CLEN | **"-S9LEN" Length of this DSECT |

CLT Command list table

```

MACRO NAME = DFHCLT
DESCRIPTIVE NAME = CICS XRF Command List Table entry macro
FUNCTION =
    This macro defines a Command List Table (CLT) for use with
    CICS XRF.
EXTERNAL REFERENCES =
    XRF Takeover Initiation program, DFHWTI
MACROS (Macro pass) =
    DFHSYS - set globals
    DFHPRMCK - operand syntax checking
    DFHSMPT - generate SMP control statements
    DFHCOVER - generate cover pages
    DFHVM - generate version etc. constants
ROUTINES (Generated code) =
    none
DATA AREAS (Generated code) =
    DFHCLTDS (DSECT name)
CONTROL BLOCKS (Generated code) =
    none
+++ COMMAND LIST TABLE
    ENTRY FORMAT
    The CLT contains the following:
    o MVS System Operator commands and WTOs to be issued
      during takeover by a CICS Alternate of a CICS Active.
    o Identification data for the JES systems in use.
    o Data used to verify authority to takeover.
    The CLT load module is link-edited into an APF Authorized
    library.
    During takeover, the CICS Alternate calls the XRF
    Takeover Initiation program to terminate the CICS
    Active with an MVS System Operator command and to have
    the commands specified in the CLT issued to, for example,
    request MRO related systems to takeover.
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (0) | | | DFHCLTDS | CLT DSECT |
| TYPE=INITIAL generated fields | | | | |
| (0) | CHARACTER | 1 | | Reserved |
| (1) | BITSTRING | 1 | CLTIVER | Version of CLT |
| |1 | | CLTIVER1 | "X'01" ..Version 1 |
| (2) | BITSTRING | 1 | CLTIJESX | Type of JES |
| |1. | | CLTIJES2 | "X'02" ..JES2 |
| |11 | | CLTIJES3 | "X'03" ..JES3 |
| (3) | CHARACTER | 1 | CLTIJCHR | JES identifier character |
| (4) | ADDRESS | 4 | CLTIIND1 | Address of Index 1 |
| | 1... | | CLTJTAB | "" JES system identification ..table entry |
| (8) | CHARACTER | 4 | CLTJMVS | MVS system identifier |
| (C) | CHARACTER | 4 | CLTJESN | JES2 or JES3 subsystem name |
| | ...1 | | CLTJES | "" |
| (10) | CHARACTER | 1 | CLTJJ2ID | JES2 shared spool member number |
| | 1..1 | | CLTJTBL2 | ""-CLTJTAB" Length of table entry for JES2 |
| (10) | CHARACTER | 8 | CLTJJ3ID | JES3 name on MAINPROC |
| | ...1 | | CLTJTBL3 | ""-CLTJTAB" Length of table entry for JES3 |

TYPE=LISTSTART generated fields

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|-------------|---|
| (0) | | | CLTI1DS | CLT Index 1 DSECT |
| Index 1 entry | | | | |
| (0) | CHARACTER | 4 | CLT1END (0) | Zero if end of Index 1 |
| (0) | CHARACTER | 8 | CLT1SAPL | Specific APPLID of Alternate |
| (8) | CHARACTER | 8 | CLT1CANN | Jobname on termination command |
| (10) | ADDRESS | 4 | CLT1ADI2 | Address of Index 2 for this ..Alternate |
| | ...1 ..1.. | | CLT1LEN | ""-CLTI1DS" Length of Index 1 entry |

TYPE=COMMAND and TYPE=WTO generated fields

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------|-----------|-----|--------------|-----------------------------|
| (0) | | | CLTCDS | CLT COMMAND/WTO entry DSECT |
| (0) | BITSTRING | 1 | CLTCTYPE | Entry type |
| |1 | | CLTCCOM | "X'01" Type=COMMAND |
| |1. | | CLTCWTO | "X'02" Type=WTO |
| (1) | BITSTRING | 1 | CLTCCEC | CEC indicator |
| |1 | | CLTCCSAM | "X'01" ..Same |
| |1. | | CLTCCSEP | "X'02" ..Separate |
| (2) | CHARACTER | 1 | CLTCDATA (0) | |
| TYPE=COMMAND | | | | |
| (2) | BITSTRING | 1 | CLTCCOML | Length of command |
| (3) | CHARACTER | 1 | CLTCTEXT (0) | Start of command text |
| TYPE=WTO | | | | |
| (2) | CHARACTER | 1 | (2) | Reserved |
| (4) | ADDRESS | 4 | CLTCADDR | Address of WTO MF=L |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|--|
| (0) | | | CLTI2DS | CLT Index 2 DSECT |
| Index 2 entry | | | | |
| (0) | ADDRESS | 4 | CLT2ADDR | Address of COMMAND/WTO entry ..or zero if end of Index 2 |
| |1.. | | CLT2LEN | "-CLTI2DS" Length of Index 2 entry |

CRB Cross region block

CONTROL BLOCK NAME = DFHCRBPS
 DESCRIPTIVE NAME = CICS Cross Region Block
 FUNCTION =
 This DSECT describes the CICS region block, which is used by the CICS inter-region communication facility.
 The block is used to control inter-region activity at a global level, as opposed to controlling the activity of individual links with other regions.
 The conversational TCTTE (hung off the 'ISLINK' system entry in the TCT) is the block which controls individual 'conversations' between CICS and other regions.
 The CRB is allocated when the facility is started up (by the start-up program, DFHCRSP), and freed when the facility is shut down (via the IS LOGOFF COMMND).
 The block contains, amongst other things, argument lists and other information required to communicate with the inter-region SVC (DFHIRCP)
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 104 | DFHCRBDS | |
| (0) | CHARACTER | 8 | CRBEYE | Eyecatcher |
| (8) | FULLWORD | 4 | CRBSVCLS | ALIST FOR SVC FULL WORD ALIGNMENT |
| (C) | CHARACTER | 40 | CRBSVCSB | SUBLIST FOR SVC |
| (34) | ADDRESS | 4 | * | Reserved |
| (38) | FULLWORD | 4 | CRBUSID | SVC USER ID ALLOC'D TO CICS |
| (3C) | ADDRESS | 4 | CRBSLCB | A(SVC'S SLCB CTL BLOCK) |
| (40) | CHARACTER | 8 | CRBIMQTK | Immed queue token for queue manager |
| (48) | CHARACTER | 8 | CRBDLQTK | Delay queue token for queue manager |
| (50) | CHARACTER | 8 | CRBSTASV | SAVE REGS 13,14 IN STAE |
| (50) | FULLWORD | 4 | * | REGS 13 |
| (54) | FULLWORD | 4 | * | REGS 14 |
| (58) | HALFWORD | 2 | CRBSVCIN | INSTR TO INVOKE INTER-RGN SVC |
| (5A) | CHARACTER | 2 | * | Reserved |
| (5C) | BITSTRING | 1 | CRBFLG1 | FLAG BYTE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... .. | | * | 80 reserved |
| | .1.. .. | | CRBSCSMT | 40 SUPPRESS 'QUIESCE COMPLETE' MSG TO CSMT IN CSNC. (THIS BIT SET WHEN INTER-RGN FCLY STOPPED BY STP OR SRP) |
| | ..1. | | * | 20 reserved |
| | ...1 | | * | 10 reserved |
| | 1... | | CRBABND | 08 CSNC HAS ABENDE- NRML SHUT MUST'NT ISSUE IS STOPNML |
| (5D) | CHARACTER | 3 | * | alignment |
| (60) | ADDRESS | 4 | * | Reserved |
| (64) | ADDRESS | 4 | CRBDSTOK | DS token for work exit |

CSA Common system area generator

CONTROL BLOCK NAME = DFHCSAPS
 DESCRIPTIVE NAME = CICS COMMON SYSTEM AREA GENERATOR.
 FUNCTION =
 DFHCSAPS GENERATES THE DSECT FOR THE CICS COMMON SYSTEM AREA.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 MACROS : DFHAFCD, DFHEJECT, DFHPRINT, DFHSYS

D

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---|
| (0) | STRUCTURE | 516 | DFHCSADS | SECTION - CSA |
| (0) | CHARACTER | | DFHCSABA | COMMON SYSTEM AREA BEGIN ADDRESS |
| (0) | FULLWORD | 4 | CSAOSRSA (18) | CONTROL SYSTEM REGISTER AREA |
| (48) | CHARACTER | | CSASOSI | SHORT ON STORAGE INDICATOR |
| (48) | BITSTRING | 1 | CSASSI1 | SYSTEM SIGNAL INDICATOR 1 |
| | 1... .. | | CSAFPURG | DFHKCP HAS USED FORCE PURGE |
| | .1.. .. | | CSAFTCAB | RMI forced TCAs below 16M |
| | ..1. | | CSASDTRN | SDTRAN STARTED |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | CSACSDOP | CSD OPEN IN START-UP |
| |1 | | CSASOSON | SHORT ON STORAGE CONDITION |
| (49) | CHARACTER | | CSAKCMI | MAXIMUM NUMBER OF TASKS IND |
| (49) | BITSTRING | 1 | CSASSI2 | SYSTEM SIGNAL INDICATOR 2 CONDITION |
| | 1... .. | | CSASTIM | SYSTEM TERMINATION INDICATOR MASK |
| | .1.. .. | | CSAFNLTM | FINAL TERMINATION PHASE POSTING MASK |
| | ..1. | | CSATCSCN | TCP full scan required |
| | ...1 | | CSAPLTPI | PLTPI PHASE HAS COMPLETED |
| | 1... | | CSATCPQM | TERMINAL CONTROL QUIESCE TASK |
| |1.. | | CSATQIM | TRANSACTION QUIESCE INDICATOR MASK |
| |1. | | CSAMXTON | MAXIMUM TASK INDICATOR ON CONDITION |
| |1 | | CSATCPEV | TCP-KCP PENDING EVENT. |
| (4A) | CHARACTER | 2 | CSAKCMT | MAXIMUM NUMBER OF TASKS |
| (4C) | ADDRESS | 4 | CSACDTA | CURRENTLY DISPATCHED TASK ADDRESS |
| (50) | CHARACTER | 4 | CSATODP | TIME OF DAY. A PACKED INTEGER OF THE FORM HHMMSSTC WHERE HH IS HOURS, MM IS MINUTES, SS IS SECONDS, T IS TENTHS OF A SECOND AND C IS A POSITIVE SIGN. |
| (54) | ADDRESS | 4 | CSAICEBA | INTERVAL CONTROL ELEMENT (ICE) CHAIN BEGINNING ADDRESS |
| (58) | HALFWORD | 2 | CSAICSIC | default DTIMOUT interval in seconds. |
| (5A) | BITSTRING | 1 | CSADATFT | DATE FORMAT INDICATOR |
| | 1... .. | | * | |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | CSADATFY | FORMAT AS YYYYMMDD |
| |1. | | CSADATFD | FORMAT AS DDMMYY |
| |1 | | CSADATFM | FORMAT AS MMDDYY |
| (5B) | BITSTRING | 1 | CSAICIND | INTERVAL CONTROL INDICATOR |
| | 1... .. | | * | |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | CSAICITP | ADJUSTMENT TASK PENDING MASK |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--|
| (5C) | FULLWORD | 4 | CSAICIAJ CSATADJT | TIME-OF-DAY ADJUSTMENT MASK TIME OF DAY ADJUSTMENT VALUE. THE DIFFERENCE BETWEEN THE OPERATING SYSTEM TIME OF DAY AND THE CICS TIME OF DAY EXPRESSED IN 300THS OF A SECOND. |
| (60) | CHARACTER | 4 | CSACTODB | CURRENT TIME OF DAY. A BINARY INTEGER OF WHICH THE LEAST SIGNIFICANT BIT REPRESENTS ONE ONE-HUNDREDTH OF A SECOND. |
| (60) | FULLWORD | 4 | CSACSCC | COMMON SYSTEM CONTROL CLOCK |
| (64) | FULLWORD | 4 | CSASBTI | SYSTEM PARTITION/REGION EXIT TIMER INTERVAL EXPRESSED IN 300THS OF A SECOND (CICS TIMER UNITS) IN THE THREE HIGH-ORDER BYTES. |
| (68) | ADDRESS | 4 | CSAEITHG | HIRED GUN TABLE ADDRESS |
| (6C) | CHARACTER | 4 | CSASITOD | SYSTEM INITIALIZATION TIME OF DAY IN BINARY SECONDS. |
| (6C) | FULLWORD | 4 | CSATODB | TIME OF DAY BINARY |
| (70) | ADDRESS | 4 | CSACBDAN | CBD table manager anchor |
| (74) | ADDRESS | 4 | CSAPLBA | PARTITION LOWER BOUNDARY ADDRESS |
| (78) | ADDRESS | 4 | CSAPUBA | PARTITION UPPER BOUNDARY ADDRESS |
| (7C) | CHARACTER | 4 | CSAJYDP | A PACKED INTEGER OF THE FORM 0CYDDDS WHERE YY IS YEARS,DDD IS DAYS, C IS A CENTURY INDICATOR (0=1900 1=2000, 2=2100 etc) AND S IS A POSITIVE SIGN. |
| (80) | ADDRESS | 4 | CSASPPFA | ADDRESS OF SPECIAL FETCH- PROTECTED STORAGE AREA |
| (84) | BITSTRING | 1 | CSATRMF1 CSATRMAS | TRACE SYSTEM MASTER FLAGS TRACE MASTER FLAG. IF ON, TRACING OCCURS OF SYSTEM AND USER ENTRIES - ACCORDING TO INDIVIDUAL FLAGS |
| | | | CSATRSYS | SYSTEM MASTER FLAG. IF ON, SYSTEM ENTRIES ARE TRACED |
| | | | CSATRUSE | USER MASTER FLAG. IF ON, USER ENTRIES ARE TRACED |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | CSATRFEP | TRACE FEPI |
| | | | * | Reserved |
| (85) | BITSTRING | 1 | CSATRMF2 | TRACE SYSTEM SELECTION FLAGS |
| | | | CSATRMKC | TRACE TASK CONTROL |
| | | | CSATRMSC | TRACE STORAGE CONTROL |
| | | | CSATRMPC | TRACE PROGRAM CONTROL |
| | | | CSATRMIC | TRACE INTERVAL CONTROL |
| | | | CSATRMDC | TRACE DUMP CONTROL |
| | | | CSATRMFC | TRACE FILE CONTROL, DL/I |
| | | | CSATRMTD | TRACE TRANSIENT DATA |
| | | | CSATRMTS | TRACE TEMPORARY STORAGE |
| (86) | BITSTRING | 1 | CSATRMF3 | TRACE SYSTEM SELECTION FLAGS |
| | | | CSATRMRE | TRACE ALL RESPONSES (Reserved) |
| | | | CSATRMEI | TRACE EXEC INTERFACE |
| | | | CSATRMDI | TRACE DATA INTERCHANGE |
| | | | CSATRMSP | TRACE SYNC POINT |
| | | | CSATRMTC | TRACE TERMINAL CONTROL |
| | | | CSATRMBF | TRACE BUILT-IN FUNCTIONS |
| | | | CSATRMBM | TRACE BMS |
| | | | CSATRMJC | TRACE JOURNAL CONTROL |
| (87) | BITSTRING | 1 | CSATRMF4 | TRACE SYSTEM SELECTION FLAGS |
| | | | CSATRMIS | TRACE ISC |
| | | | CSATRMUE | TRACE USER EXIT INTERFACE |
| | | | CSATRMS5 | Reserved |
| | | | CSATRMS4 | Reserved |
| | | | CSATRMS3 | Reserved |
| | | | CSATRMS2 | Reserved |
| | | | CSATRMS1 | Reserved |
| | | | CSATRMLF | LIFO FLAG |
| (88) | BITSTRING | 1 | CSATRMF5 | TASK STORAGE SELECTION FLAGS |
| | | | * | Reserved |
| | | | CSATSKCR | TASK STORAGE = CURRENT |
| | | | * | Reserved |
| (89) | BITSTRING | 1 | CSATRMF6 | TERMINAL STORAGE SEL. FLAGS |
| | | | CSATRMCR | TERMINAL STORAGE = CURRENT |
| | | | * | Reserved |
| (8A) | UNSIGNED | 1 | CSAUSKEY | USER KEY IN IC/SPKA FORM |
| (8B) | UNSIGNED | 1 | CSACIKEY | CICS KEY IN IC/SPKA FORM |
| (8C) | ADDRESS | 4 | CSASITBA | SYSTEM INITIALIZATION TABLE (SIT) ADDRESS |
| (90) | FULLWORD | 4 | CSAUNQID | UNIQUE IDENTIFICATION COUNTER (BINARY FULLWORD COUNTER) |
| (94) | FULLWORD | 4 | CSAAIDBA | Reserved and must not be used |
| (98) | HALFWORD | 2 | CSASTIME | SNT tuning parm (from SIT) |
| (9A) | HALFWORD | 2 | CSALTIME | LUIT tuning parm (from SIT) |

OPERATING SYSTEM AND CICS LEVEL INDICATORS

| | | | | |
|------|-----------|---|----------|--|
| (9C) | CHARACTER | 1 | CSAOPSYS | OPERATING SYSTEM |
| (9D) | CHARACTER | 1 | CSAOPREL | OPERATING SYSTEM RELEASE |
| (9E) | CHARACTER | 1 | CSACICS | CICS SYSTEM |
| (9F) | BITSTRING | 1 | CSACIREL | CICS RELEASE |
| (A0) | ADDRESS | 4 | CSAKCNAC | Task control |
| (A4) | ADDRESS | 4 | CSASCNAC | Storage control |
| (A8) | ADDRESS | 4 | CSAPCNAC | Program control |
| (AC) | ADDRESS | 4 | CSAICNAC | Time control |
| (B0) | ADDRESS | 4 | CSADCNAC | Dump control |
| (B4) | ADDRESS | 4 | CSATCNAC | Terminal control |
| (B8) | ADDRESS | 4 | CSATCTCA | TERMINAL CONTROL TASK CONTROL AREA ADDRESS |
| (BC) | ADDRESS | 4 | CSAROCSA | Read-only CSA (for PL/1) |
| (C0) | ADDRESS | 4 | CSAICEXP | IC expiry TXN TCA addr |
| (C4) | CHARACTER | 1 | CSASSI3 | Reserved (former ICVSW) |
| | | | CSASTASK | Is there DS subtasking? |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| | .1.. | | CSASTPRO | Storage Protect flag |
| | ..1. | | CSATRISO | Tran Isolation Flag |
| | ...1 | | CSAFRCQR | 1=> FORCEQR=FORCE |
| | 1111 | | * | |
| (C5) | UNSIGNED | 1 | CSACIMOD | CICS modification level in hex |
| (C6) | HALFWORD | 2 | * | Reserved |
| (C8) | ADDRESS | 4 | CSAOPFLA | CSA OPTIONAL FEATURES LIST ADDRESS |
| (CC) | ADDRESS | 4 | CSA_RQMDANCH | Request model anchor |
| (D0) | CHARACTER | 8 | * | Reserved |
| (D8) | ADDRESS | 4 | CSABTCCB | BTAM MASTER CCB ADDRESS (DOS ONLY) |
| CONSTANTS | | | | |
| (DC) | CHARACTER | 4 | * | MEMORY CONSTANT - CNST |
| MISCELLANEOUS CONSTANTS | | | | |
| (E0) | HALFWORD | 2 | * | Reserved |
| (E2) | HALFWORD | 2 | CSALEN | Length of CSA |
| (E4) | ADDRESS | 4 | CSACWAA | Address of CWA |
| (E8) | HALFWORD | 2 | CSACWAL | Length of CWA |
| (EA) | HALFWORD | 2 | * | Reserved |
| (EC) | CHARACTER | 8 | CSATCA31 | 31 bit TCA subpool token |
| (F4) | CHARACTER | 8 | CSATCA24 | 24 bit TCA subpool token |
| (FC) | CHARACTER | 8 | CSARMSBP | Recovery table subpool token * |
| (104) | ADDRESS | 4 | CSASANAC | PL/I STORAGE ALLOCATION PROGRAM ADDRESS |
| (108) | ADDRESS | 4 | CSATCADF | ADDR(proforma TCA) |
| (10C) | ADDRESS | 4 | CSAQRTCB | QR TCB address |
| (110) | ADDRESS | 4 | CSAEIPAD | EIP ADCON LIST (DFHEIP00) |
| (114) | ADDRESS | 4 | CSABRSAA | BR State Area |
| (118) | ADDRESS | 4 | * | Reserved |
| SYSTEM CONTROL TABLE BEGINNING ADDRESSES | | | | |
| (11C) | ADDRESS | 4 | CSATRRAT | Return addr to be traced |
| (120) | ADDRESS | 4 | CSAAINAC | Entry point of DFHAPIN |
| (124) | ADDRESS | 4 | CSACOB12 | Entry point of interface module DFHPCPC2, which allows 24bit COBOL pgms to be called, and return to, 31bit DFHPCP. This interface is used by OS/VS COBOL version 1.2.2 |
| (128) | ADDRESS | 4 | CSATCTBA | ADDRESS OF TERMINAL CONTROL TABLE |
| (12C) | ADDRESS | 4 | CSAFCSBA | ADDRESS OF FILE CONTROL STATIC STORAGE |
| (130) | ADDRESS | 4 | CSADCTBA | ADDRESS OF DESTINATION CONTROL TABLE |
| (134) | ADDRESS | 4 | CSATSATA | ADDRESS OF TEMPORARY STORAGE COMMON AREA |
| (138) | BITSTRING | 4 | CSATSIEC | TEMPORARY STORAGE INITIALISATION ECB |
| (13C) | ADDRESS | 4 | * | Reserved |
| OPEN & CLOSE LIST | | | | |
| (140) | ADDRESS | 4 | CSAPOLA | PROGRAM DATA SET OPEN LIST ADDRESS |
| (144) | ADDRESS | 4 | * | Reserved |
| (148) | ADDRESS | 4 | CSATOLA | TERMINAL DATA SET OPEN LIST ADDRESS |
| (14C) | ADDRESS | 4 | CSAFOLA | FILE DATA SET OPEN LIST ADDRESS |
| (150) | ADDRESS | 4 | CSATDOLA | TRANSIENT DATA DATA SET OPEN LIST ADDRESS |
| (154) | ADDRESS | 4 | CSATSOLA | TERMINAL STORAGE DATA SET OPEN LIST ADDRESS |
| (158) | ADDRESS | 4 | * | Reserved |
| (15C) | ADDRESS | 4 | CSABRFMA | DFHBRFM entry point |
| CICS PROGRAM INTERRUPT CONTROL AREA | | | | |
| (160) | CHARACTER | 1 | CSAPICA | Reserved |
| (161) | CHARACTER | 3 | * | Reserved |
| (164) | CHARACTER | 2 | * | Reserved |
| (166) | HALFWORD | 2 | * | Reserved |
| (168) | ADDRESS | 4 | CSAPIEA | Reserved |
| TIME OF DAY CONTROL | | | | |
| (16C) | FULLWORD | 4 | CSABASCL | BASE TIME-OF-DAY CLOCK VALUE (4.096 MILLISECONDS RESOLUTION) |
| (170) | FULLWORD | 4 | CSABASTU | BASE TIMER UNITS VALUE EXPRESSED IN 300THS OF A SECOND RESOLUTION |
| CICS EXECUTION STATUS | | | | |
| (174) | CHARACTER | 3 | CSAXST | CICS EXECUTION STATUS FLAGS |
| (174) | BITSTRING | 1 | CSAXST1 | CICS EXECUTION STATUS |
| | 1... | | * | |
| | .1.. | | CSAXSTM* | CICS CONTROLLED SHUTDOWN.. ..IF CSAXSTM IS ALSO SET |
| | ..1. | | CSAXSTM1 | CICS IMMEDIATE SHUTDOWN.. ..IF CSAXSTM IS ALSO SET |
| | ...1 | | CSAXSTMX | CICS HAS BEEN CANCELLED ..IF CSAXSTM IS ALSO SET |
| | 1... | | * | |
| |1.. | | CSAXSTM | CICS TERMINATION |
| |1. | | CSAXSEX | CICS EXECUTION |
| |1 | | CSAXSI | CICS INITIALIZATION |
| (175) | BITSTRING | 1 | CSAXST2 | CICS EXECUTION STATUS |
| | 1... | | * | |
| | .1.. | | * | |
| | ..1. | | CSAXSQ2 | 2ND-STAGE OF QUIESCE |
| | ...1 | | CSAXSQ1 | 1ST-STAGE OF QUIESCE |
| | 1... | | * | |
| |1.. | | CSAXSI3 | 3RD-STAGE INITIALIZATION |
| |1. | | CSAXSI2 | 2ND-STAGE INITIALIZATION |
| |1 | | CSAXSI1 | 1ST-STAGE INITIALIZATION |
| (176) | BITSTRING | 1 | CSAXST3 | CICS EXECUTION STATUS |
| | 1... | | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------------|-----------|-----|------------------|---|
| | .1.. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (177) | BITSTRING | 1 | CSAXSINC *(1) | CICS INITIALIZATION COMPLETE KEYPOINT FLAGS |
| | 1... | | CSAINAKP | IN ACTIVITY KEYPOINT |
| (178) | ADDRESS | 4 | CSANULLP | Non 0 null address |
| (17C) | FULLWORD | 4 | CSAABPSW | ABEND PSW SAVE AREA ADDRESS (DOS ONLY) |
| (17C) | ADDRESS | 4 | CSASPPF2 | addr of another fetch protected area |
| (180) | ADDRESS | 4 | * | Available for future use * |
| (184) | ADDRESS | 4 | CSATDNAC | Transient data entry |
| (188) | ADDRESS | 4 | CSATSNAC | Temp storage entry |
| (18C) | ADDRESS | 4 | CSATCRWE | TCP read/write entry |
| (190) | ADDRESS | 4 | CSAWTOAD | Write-to-operator routine |
| (194) | ADDRESS | 4 | CSATRNAC | Trace entry |
| (198) | ADDRESS | 4 | CSASPNAC | Sync point entry |
| TASK ABNORMAL TERMINATION INTERFACE | | | | |
| (19C) | CHARACTER | 3 | * | Reserved |
| (19F) | BITSTRING | 1 | CSARUNKC | RUNAWAY TASK SUPPORT |
| | 1... | | CSAETRWA | SET RUNAWAY TASK SUPPORT |
| | .1.. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1A0) | ADDRESS | 4 | CSAICFNA | ADDRESS OF ABEND ROUTINE |
| (1A4) | CHARACTER | 8 | CSAICRNX | ASSEMBLER CODE |
| (1A4) | CHARACTER | 1 | * | |
| (1A5) | CHARACTER | 1 | CSAICRIN | |
| (1A6) | CHARACTER | 6 | * | |
| TIME MANAGEMENT STORAGE | | | | |
| (1AC) | FULLWORD | 4 | CSATODTU | BINARY TIME OF DAY IN 300THS OF A SECOND |
| (1B0) | FULLWORD | 4 | CSATCNDT | TERMINAL CONTROL'S NEXT DISPATCH TIME OF DAY IN 300THS OF A SECOND |
| (1B4) | FULLWORD | 4 | CSAICRIC | RUNAWAY TASK TIME INTERVAL IN 300THS OF A SECOND IN THREE HIGH- ORDER BYTES |
| (1B8) | CHARACTER | 2 | CSAICRUN | NUMBER OF RUNAWAY TASKS FLUSHED |
| (1BA) | BITSTRING | 1 | CSARDATC | RELATIVE DATE COUNTER (BINARY) |
| (1BB) | BITSTRING | 1 | * | Reserved |
| WORKAREA | | | | |
| (1BC) | CHARACTER | 8 | * | MEMORY COMMENT - 'WORKAREA' |
| SYSTEM STATISTICS | | | | |
| (1C4) | ADDRESS | 4 | CSAFASTL | -> FAST LINK WORK AREA |
| (1C8) | CHARACTER | 2 | CSAKPCNT | ACTIVITY KEYPOINT COUNTER |
| (1CA) | HALFWORD | 2 | * | Reserved |
| (1CC) | CHARACTER | 2 | CSAKCCT | CURRENT TASK ACCUMULATOR |
| (1CE) | CHARACTER | 2 | CSAKCMTA | MAXIMUM NUMBER OF TASKS ACCUMULATED |
| (1D0) | CHARACTER | 3 | CSAKCTTA | TASK ORIGINATED ACCUMULATOR - TOTAL NUMBER OF TASKS CICS HAS ORIGINATED |
| (1D3) | CHARACTER | 1 | * | Reserved |
| (1D4) | UNSIGNED | 4 | CSAPPFN | PPF change counter |
| (1D8) | UNSIGNED | 4 | CSATCTSV | TCTS change counter |
| (1DC) | ADDRESS | 4 | CSAPFTRR | relay link PFT address |
| (1E0) | ADDRESS | 4 | CSAPFTRS | relay link PFT address |
| (1E4) | CHARACTER | 1 | * | Reserved |
| DUMP CONTROL | | | | |
| (1E5) | CHARACTER | 2 | * | Reserved |
| TEMP STORAGE CONTROL | | | | |
| (1E7) | CHARACTER | 3 | CSATSMSA | Reserved |
| (1EA) | CHARACTER | 3 | CSATSASA | Reserved |
| SERVICE PROGRAMS | | | | |
| (1ED) | CHARACTER | 2 | CSASPA1 | SERVICE PROGRAM ACCUMULATOR 1 Reserved |
| (1EF) | CHARACTER | 2 | CSASPA2 | SERVICE PROGRAM ACCUMULATOR 2 Reserved |
| (1F1) | CHARACTER | 3 | CSASPA3 | SERVICE PROGRAM ACCUMULATOR 3 (DUMP CONTROL WRITE ERROR COUNT) |
| (1F4) | CHARACTER | 3 | CSATDNT | Reserved |
| USER TRANSACTION | | | | |
| (1F7) | CHARACTER | 3 | CSAUTA1 | USER TRANSACTION ACCUMULATOR 1 |
| (1FA) | CHARACTER | 3 | CSAUTA2 | USER TRANSACTION ACCUMULATOR 2 |
| (1FD) | CHARACTER | 3 | CSAUTA3 | USER TRANSACTION ACCUMULATOR 3 |
| (200) | CHARACTER | 3 | CSAUTA4 | USER TRANSACTION ACCUMULATOR 4 |
| (203) | BITSTRING | 1 | * | DUMMY PROGRAM TYPE OF REQUEST SAVE AREA - USED BY DUMMY PROGRAMS AS FIELD CSATSTR |
| (204) | CHARACTER | | CSACSAEA | END OF CSA |

OPTIONAL FEATURE LIST

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------------|-----------|------|------------|--|
| (0) | STRUCTURE | 1280 | CSAOPFL | FEATURE LIST DSECT |
| (0) | ADDRESS | 4 | * | Reserved |
| (4) | ADDRESS | 4 | CSAATTCH | ATTACH LIST ADDRESS - O/S |
| (8) | ADDRESS | 4 | CSASNSTA | LOCATION OF DFHSNSTA - SIGNON STATISTICS RECORDS |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | ADDRESS | 4 | * | Reserved |
| (14) | ADDRESS | 4 | CSATMSVT | TERMINAL MONITOR SYSTEM (TMS) VECTOR TABLE ADDRESS |
| (18) | ADDRESS | 4 | * | Reserved |
| (1C) | ADDRESS | 4 | CSADMRMP | CSD recovery Program |
| (20) | ADDRESS | 4 | CSASRNAC | SYSTEM RECOVERY PROGRAM ENTRY ADDRESS |
| (24) | ADDRESS | 4 | CSASRTBA | ADDRESS OF SYSTEM RECOVERY TABLE |
| (28) | ADDRESS | 4 | CSAKPNAC | KEY-POINT PROGRAM ENTRY ADDRESS |
| (2C) | ADDRESS | 4 | CSAATMSP | ATMS CONTROL POINTER |
| (30) | ADDRESS | 4 | CSAXLTBA | ADDRESS OF SYSTEM TERMINATION TRANSACTION LIST TABLE |
| (34) | ADDRESS | 4 | * | Reserved |
| (38) | ADDRESS | 4 | * | Reserved |
| (3C) | ADDRESS | 4 | CSATSTBA | ADDRESS OF TEMPORARY STORAGE TABLE |
| (40) | ADDRESS | 4 | CSAAIINN | DFHAIIN Entry point for AITM * |
| (44) | ADDRESS | 4 | CSACPINN | DFHCPIN Entry point for CPIN * |
| (48) | ADDRESS | 4 | CSAPRINN | DFHPRIN Entry point for PRIN * |
| (4C) | ADDRESS | 4 | CSAKCSC | ADDRESS of KC query program * |
| (50) | ADDRESS | 4 | * | Reserved |
| (54) | ADDRESS | 4 | CSAPLISL | ADDRESS OF SHARED LIBRARY COMMON MODULES |
| (58) | ADDRESS | 4 | CSAPLISM | ADDRESS OF SHARED LIBRARY NON-TASK-ONLY MODULES |
| (5C) | ADDRESS | 4 | CSASRAA | ADDRESS OF SRB CONTROL AREA |
| (5C) | HALFWORD | 2 | CSAOPF0E | * |
| (5E) | HALFWORD | 2 | * | |
| (60) | ADDRESS | 4 | CSAMROQA | ANCHOR BLOCK FOR MRO W-Q |
| (64) | CHARACTER | 2 | CSAOPF1S | |
| (64) | HALFWORD | 2 | * | Reserved |
| (66) | CHARACTER | 2 | * | Reserved |
| (68) | CHARACTER | 3 | * | Reserved |
| (6B) | CHARACTER | 3 | * | Reserved |
| (6E) | UNSIGNED | 1 | * | Reserved |
| (6F) | BITSTRING | 1 | CSAFEOPT | FERS OPTION BYTE |
| | | | 1... .. | * |
| | | | .1. | * |
| | | | ..1. | * |
| | | | ...1 | * |
| | | | 1... | * |
| | | |1.. | |
| | | |1 | |
| | | |1 | |
| (70) | ADDRESS | 4 | CSAFEAX | AUXILIARY TEMPORARY STORAGE |
| | | | CSAFEWST | WARM START |
| | | | CSAFERST | EMERGENCY RESTART |
| (74) | ADDRESS | 4 | CSADINAC | DATA INTERCHANGE MODULE ADDRESS |
| | | | CSASTYDP | CICS START-UP DATE IN THE FORM 0CYDDDS WHERE YY IS THE YEAR, DDD IS THE DAY, C IS THE CENTURY INDICATOR AND S IS A POSITIVE SIGN |
| (78) | ADDRESS | 4 | CSAFCXAD | ADDRESS OF DFHFCIN |
| (7C) | ADDRESS | 4 | CSACSAAD | ADDRESS OF CSA |
| (7C) | HALFWORD | 2 | CSAOPF1E | |
| (7E) | HALFWORD | 2 | * | |
| (80) | ADDRESS | 4 | CSALFNAC | STANDARD LIFO PROLOGUE ROUTINE ADDRESS |
| (84) | ADDRESS | 4 | * | Reserved |
| (88) | ADDRESS | 4 | CSAMGNAC | ADDRESS OF DFHMGP MESSAGE PROGRAM |
| (8C) | ADDRESS | 4 | CSAMGTAC | ADDRESS OF MESSAGE TABLE |
| (90) | CHARACTER | 8 | CSACOMTK | SUBPOOL TOKEN FOR TERMINAL COMMAREA ABOVE THE LINE (CICS KEY STORAGE) |
| MODULE ADDRESSES | | | | |
| MODULE ADDRESSES AND TOKENS | | | | |
| (98) | ADDRESS | 4 | * | Reserved (was CSAELRNA) |
| (9C) | ADDRESS | 4 | CSAXFPNA | ADDRESS OF EXEC TRANSFORMER PROGRAM |
| (A0) | ADDRESS | 4 | CSAISPNA | ADDRESS OF EXEC INTERSYSTEM PROGRAM |
| (A4) | ADDRESS | 4 | CSAXTPNA | ADDRESS OF TERMINAL SHARING TRANSFORMER PROGRAM |
| (A8) | ADDRESS | 4 | CSAEINAC | ADDRESS OF DFHEIP Exec nucleus * |
| (AC) | CHARACTER | 8 | CSAICA31 | Subpool token ICE |
| (B4) | CHARACTER | 8 | CSAEATK | Subpool token for APECA |
| Special area for Language Interface | | | | |
| (BC) | ADDRESS | 4 | CSACEEPI | Address of CEEPIPI |
| (C0) | ADDRESS | 4 | CSABRSPA | Address of Bridge exit interface routine (SP) |
| (C4) | FULLWORD | 4 | CSACEEIL | Special interface level |
| (C8) | CHARACTER | 4 | CSACEEFG | Flags |
| (C8) | BITSTRING | 1 | CSACEEF1 | Flag Byte |
| | | | 1... .. | CEECCICS loaded |
| | | | .1. | CSACEEIN |
| | | | ..1. | LE/370 initialized |
| | | | ...1 | CSA_GLBLOPTS_SET |
| | | | 1... | Global options processed |
| | | |111 | CSA_THREADSAFE |
| | | | | Global default THREADSAFE |
| | | | | CSA_QUASIRENT |
| | | | | Global default QUASIRENT |
| | | | | * |
| | | | | reserved |
| (C9) | BITSTRING | 1 | CSALANG | Language byte |
| | | | 1... .. | ASMINIT |
| | | | | Assembler initialized by LE/370 * |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------|--|
| | .1.. | | CINIT | C initialized by LE/370 |
| | .1. | | COBINIT | Cobol initialized by LE370 * |
| | ...1 | | PLINIT | PL/I initialized by LE/370 * |
| | ... 1... | | RPGINIT | RPG initialized by LE/370 |
| (CA) | BITSTRING | 1 | CSALEFUN | active CICS/LE functions |
| | 1... | | CSA_PROG_TYPE3 | type 3 objects supported |
| | .1. | | * | reserved |
| | .1. | | CSA_LE_OTE | OTE support active |
| | ...1 | | CSA_REUSABLE_RUWA | |
| | 1.. | | CSA_ABEND_CANCEL | RUWAs are reusable ABEND with CANCEL |
| |1. | | CSA_DUMP_SUPPRESS | |
| |1. | | * | dump suppression reserved |
| |1 | | * | reserved |
| (CB) | BITSTRING | 1 | * | reserved |
| (CC) | CHARACTER | 8 | CSACEEPT | LE/370 Partition token |
| (D4) | ADDRESS | 4 | CSACEERA | Address of interface routine * |
| (D8) | FULLWORD | 4 | CSACEETL | Length of pre-allocated Thread storage |
| (DC) | CHARACTER | 4 | CSA_INIT | CICS Initialization status flags |
| (DC) | BITSTRING | 1 | * | |
| | 1... | | CSAPINIT | Partition Initialization for Languages has completed |
| | .1. | | CSA_PLI_SUPPORTED | |
| | ..11 1111 | | * | PL/I support is present Reserved |
| (DD) | BITSTRING | 3 | * | Reserved |
| (E0) | ADDRESS | 4 | CSALIRNA | Address of DFHLIRET |
| (E4) | CHARACTER | 8 | CSA_PLB_SPTOKEN | Program Language Block Subpool Token |
| (EC) | ADDRESS | 4 | CSABRMSA | Address of Bridge exit interface routine (BMS) |
| (F0) | ADDRESS | 4 | CSABRTCA | Address of Bridge exit interface routine (TC) |
| (F4) | ADDRESS | 4 | CSABRICA | Address of Bridge exit interface routine (IC) |
| (F8) | ADDRESS | 4 | CSAEISR | Address of DFHEISR service routine |
| (FC) | ADDRESS | 4 | CSAERMNA | ADDRESS OF RESOURCE MANAGER I/F |
| (100) | ADDRESS | 4 | CSAETLNA | ADDRESS OF LU6.2 MAPPED STUB |
| (104) | ADDRESS | 4 | CSAEBUNA | ADDRESS OF FMH BUILDER |
| (108) | ADDRESS | 4 | CSAEXNA | ADDRESS OF FMH EXTRACTOR |
| TERMINAL CONTROL MODULE ADDRESSES | | | | |
| (10C) | ADDRESS | 4 | CSATCNCA | ADDRESS OF DFHZCA |
| (110) | ADDRESS | 4 | CSATCNCB | ADDRESS OF DFHZCB |
| (114) | ADDRESS | 4 | CSATCNCC | ADDRESS OF DFHZCC |
| (118) | ADDRESS | 4 | CSATCNCP | ADDRESS OF DFHZCP |
| (11C) | ADDRESS | 4 | CSATCNCW | ADDRESS OF DFHZCW |
| (120) | ADDRESS | 4 | CSATCNCX | ADDRESS OF DFHZCX |
| (124) | ADDRESS | 4 | CSATCNCY | ADDRESS OF DFHZCY |
| (128) | ADDRESS | 4 | CSATCNCZ | ADDRESS OF DFHZCZ |
| BASIC MAPPING SUPPORT MODULE ENTRY ADDRESSES | | | | |
| (12C) | ADDRESS | 4 | CSARLREA | ADDRESS OF ROUTE LIST RESOLUTION PROGRAM |
| (130) | ADDRESS | 4 | CSAPBPEA | ADDRESS OF PAGE BUILD PROGRAM |
| (134) | ADDRESS | 4 | CSAM32EA | ADDRESS OF 3270 MAPPING PROGRAM |
| (138) | ADDRESS | 4 | CSAMCXEA | ADDRESS OF BMS FAST PATH MODULE |
| (13C) | ADDRESS | 4 | CSATPPEA | ADDRESS OF TERMINAL PAGING PROGRAM |
| (140) | ADDRESS | 4 | CSAIIPEA | ADDRESS OF NON-3270 INPUT MAPPING PROGRAM |
| (144) | ADDRESS | 4 | CSADWEXA | ADDRESS OF DWE PROCESSING EXIT |
| (148) | ADDRESS | 4 | CSADSBEA | ADDRESS OF DATA STREAM BUILD PROGRAM |
| (14C) | ADDRESS | 4 | CSAPHPEA | ADDRESS OF PARTITION HANDLING PROGRAM |
| (150) | ADDRESS | 4 | CSAML1EA | ADDRESS OF LU TYPE 1 MAPPING PROGRAM |
| MISCELLANEOUS PROGRAM ADDRESSES | | | | |
| (154) | ADDRESS | 4 | CSARTSUA | Address of DFHRTSU Surrogate interface |
| (158) | ADDRESS | 4 | CSAPCNNA | ADDRESS OF NON-WORKING SET PROGRAM CONTROL PROGRAM |
| (15C) | ADDRESS | 4 | CSAGCAAC | ADDRESS OF GET_CAA ROUTINE * |
| (160) | ADDRESS | 4 | CSASCAAC | ADDRESS OF SET_CAA ROUTINE * |
| (164) | ADDRESS | 4 | CSATMPNA | ADDRESS OF TABLE MANAGER PROGRAM |
| (168) | ADDRESS | 4 | CSACMPAC | ADDRESS OF MONITORING PROGRAM * |
| (16C) | ADDRESS | 4 | CSAERMRS | Address of RMI Resync module * |
| (170) | ADDRESS | 4 | CSXCRLBA | ADDRESS OF BIND TIME LOGGING PROGRAM FOR OLD-MRO/LU6.1 |
| (174) | ADDRESS | 4 | CSAACPNNA | ADDRESS OF ABNORMAL CONDITION PROGRAM |
| (178) | ADDRESS | 4 | CSAIRPNA | ADDRESS OF INTER-REGION COMMUNICATION PROGRAM |
| (17C) | ADDRESS | 4 | CSAUHNA | ADDRESS OF USER EXIT HANDLER PROGRAM |
| (180) | ADDRESS | 4 | CSACJVM | addr DFHCJVM - call JVM |
| (184) | ADDRESS | 4 | CSAMCYEA | addr BMS MAPPINGDEV module DFHMCY |
| (188) | ADDRESS | 4 | CSAXFXNA | ADDRESS OF FAST-PATH TRANSFORMER PROGRAM |
| (18C) | ADDRESS | 4 | CSACJVMG | addr DFHCJVMG - debug version of DFHCJVM |
| (190) | ADDRESS | 4 | CSAPSNAC | ADDR SYSTEM SPOOLING INTERFACE CONTROL MODULE |
| (194) | ADDRESS | 4 | CSASKMNA | ADDRESS SUBTASK MANAGEMENT MODULE |
| (198) | ADDRESS | 4 | * | Reserved |
| (19C) | ADDRESS | 4 | * | Reserved |
| (1A0) | ADDRESS | 4 | CSAZBANA | ADDRESS ZC BIND ANALYSIS |
| (1A4) | ADDRESS | 4 | CSATBSNA | ADDRESS TABLE BLDR SERV |
| (1A8) | ADDRESS | 4 | * | Reserved |
| (1AC) | ADDRESS | 4 | CSAXQONA | ADDRESS DFHZXQO |
| (1B0) | ADDRESS | 4 | CSAAPRDA | ADDRESS OF AP RD GATE |
| (1B4) | ADDRESS | 4 | CSAZCQNA | ADDRESS OF ZCQ INST/DELETE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|--|
| MISCELLANEOUS TABLE AND CONTROL BLOCK ADDRESSES | | | | |
| (1B8) | CHARACTER | 4 | CSAOPF3E | |
| ADDRESSES OF CONTROL BLOCKS WITHIN MODULE DFHCSA | | | | |
| (1B8) | ADDRESS | 4 | CSASECBL | ADDRESS OF SECURITY CLASS BLOCK |
| (1BC) | CHARACTER | 4 | * | Reserved |
| (1C0) | CHARACTER | 4 | CSAOPF4S | |
| ADDRESSES OF CONTROL BLOCKS NOT WITHIN MODULE DFHCSA. | | | | |
| (1C0) | ADDRESS | 4 | CSASSA | ADDRESS OF STATIC STORAGE AREA ADDRESS LIST |
| (1C4) | ADDRESS | 4 | CSATCSEA | ADDRESS OF LOCAL TERMINAL CONTROL SYSTEM ENTRY |
| (1C8) | ADDRESS | 4 | CSAUETBA | ADDRESS OF USER EXIT TABLE |
| (1CC) | ADDRESS | 4 | CSAMROQP | Address of MRO work Q manager previously CSAMCTBA |
| (1D0) | ADDRESS | 4 | CSAPCTTA | ADDRESS OF PROGRAM CONTROL TABLE PREFIX |
| (1D4) | ADDRESS | 4 | CSASTRTA | ADDRESS OF PROGRAM CHECK / ABEND TRACE TABLE |
| (1D8) | ADDRESS | 4 | CSACRBA | ADDRESS OF CICS REGION BLOCK |
| (1DC) | ADDRESS | 4 | CSASDTA | ADDRESS OF SERIES DEFINITION TABLE (WHEREBY HANG ALL VOLUME MANAGT DATA) |
| (1E0) | ADDRESS | 4 | CSAKPPVC | ADDRESS OF KEYPOINT ADDRESS VECTOR |
| (1E4) | ADDRESS | 4 | CSAVSCAA | ADDRESS OF VSCA |
| (1E8) | ADDRESS | 4 | CSATDSTA | ADDRESS OF TD STATIC STORAGE |
| (1EC) | ADDRESS | 4 | CSAPSCBA | ADDR OF SYS SPOOLING INTERFACE GLOBAL CONTROL BLOCK(PSG). |
| (1F0) | CHARACTER | 4 | CSADLECB | DLI RESTART TASK ECB |
| | | | 1... * | |
| | | | .1. CSADLPST | DLI RESTART TASK POST BIT |
| (1F4) | UNSIGNED | 1 | CSADLRRC | DLI RESTART TASK RETURN CODE * |
| (1F5) | CHARACTER | 3 | * | Reserved |
| (1F8) | ADDRESS | 4 | CSAILBOC | ADDRESS OF OS/VS COBOL ILBOCOM MODULE |
| (1FC) | BITSTRING | 1 | CSARUPBT | EMERGENCY RESTART DFHRUP FLAG BYTE |
| | | | 1... CSAERMSG | 'YES' TO MSG DFH2839 ISSUED DURING E/R |
| (1FD) | BITSTRING | 1 | * | RESERVED |
| (1FE) | BITSTRING | 1 | * | RESERVED |
| (1FF) | BITSTRING | 1 | * | RESERVED |
| (200) | CHARACTER | 8 | CSAURDTK | URD/non-task DWE subpool token |
| CATALOG CONTROL FLAG BYTES | | | | |
| (208) | BITSTRING | 1 | CSACATFL | CATALOG flag byte |
| | | | 1... CSACATDF | CATALOG defined |
| (209) | BITSTRING | 1 | CSALOGFL | SYSTEM LOG flag byte |
| | | | 1... CSALOGDF | SYSTEM LOG defined .. |
| | | | .1. CSALOGDI | .. on disk |
| | | | ..1. CSALOGTP | .. on tape |
| (20A) | BITSTRING | 1 | * | Reserved |
| (20B) | BITSTRING | 1 | * | Reserved |
| INTER-REGION COMMUNICATION FLAG BYTES | | | | |
| (20C) | BITSTRING | 1 | CSACRFL1 | CICS REGION FLAG BYTE |
| | | | 1... CSACRNTC | DFHTCP GENERATED WITHOUT IRC |
| | | | .1. CSACRNXF | CICS INITIALISED WITHOUT DFHXFP |
| | | | ..1. CSACRNUA | DFHSIP IS NOT APF-AUTHORISED |
| | | | ...1 CSACRSTF | HIGH-LEVEL STAE FAILED |
| (20D) | BITSTRING | 1 | CSACRFL2 | CICS REGION FLAG BYTE 2 |
| | | | 1... CSACRASS | ASSOCIATE has been issued |
| | | | .1. CSACRWEA | MRO work queue els acquired * |
| BASIC MAPPING SUPPORT FLAG BYTE | | | | |
| (20E) | BITSTRING | 1 | CSABMSFL | BMS FLAG BYTE |
| | | | 1... CSACSPQI | TRANSACTION CSPQ HAS BEEN INITIATED |
| | | | .1. CSAALIGN | PRE 1.6 MAPS ARE ALIGNED |
| | | | ..1. CSANDDS | NO DEVICE DEPENDENT SUFFIXING |
| | | | ...1 CSANSKR | NO SINGLE KEY RETRIEVAL |
| (20F) | BITSTRING | 1 | * | Reserved |
| SIGNON COMPONENT FIELDS | | | | |
| (210) | BITSTRING | 1 | * | Reserved |
| (211) | BITSTRING | 1 | CSASNFLG | SIGNON COMPONENT FLAGS |
| | | | 1... CSASNRF | COPY OF SITXSFRG FLAG |
| (212) | BITSTRING | 1 | *(2) | Reserved |
| (214) | CHARACTER | 4 | * | Reserved |
| WEB STORAGE ANCHOR ADDRESS | | | | |
| (218) | ADDRESS | 4 | CSAWEBAN | Stg anchor for Web |
| EXECUTABLE SUPERVISOR CALL INSTRUCTIONS | | | | |
| (21C) | FULLWORD | 4 | * | Reserved |
| (220) | CHARACTER | 2 | CSASVSVC | SERVICE SVC... |
| (220) | BITSTRING | 1 | * | ...FROM CICS SVC |
| (221) | BITSTRING | 1 | CSASVSNO | SERVICES SVC NUMBER |
| (222) | CHARACTER | 2 | CSASISVC | SERVICE INITIATION SVC... |
| (222) | BITSTRING | 1 | * | ...FROM SRBSVC |
| (223) | BITSTRING | 1 | CSASISNO | SERVICE INIT.SVC NUMBER |
| STATISTICS FIELDS | | | | |
| (224) | HALFWORD | 2 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (226) | HALFWORD | 2 | CSATBSDD | DFHBSMSG DIAGNOSTIC DUMP CODE * |
| (228) | FULLWORD | 4 | CSAKCTOF | STATISTICS - TASK COUNT OVERFLOW |
| (22C) | ADDRESS | 4 | CSAXSTMA | DFHZXST map anchor |
| (230) | ADDRESS | 4 | * | Reserved |
| (234) | ADDRESS | 4 | * | Reserved |
| PROTECTED STORAGE ADDRESS LIMITS | | | | |
| (238) | ADDRESS | 4 | CSAPROTL | LOWER LIMIT OF PROTECTION |
| (23C) | ADDRESS | 4 | CSAPROTU | UPPER LIMIT OF PROTECTION NOTE: ABOVE 2 FIELDS MUST BE CONTIGUOUS |
| RESOURCE MANAGER INTERFACE RECOVERY FIELDS | | | | |
| (240) | ADDRESS | 4 | CSAKELCL | address of dfhkelcl |
| (244) | ADDRESS | 4 | CSAKELRT | address of dfhkelrt |
| (248) | ADDRESS | 4 | CSAKELCW | start of dfhkelrt window |
| (24C) | ADDRESS | 4 | CSAKELCW | end of dfhkelrt window |
| (250) | ADDRESS | 4 | * | Reserved |
| (254) | FULLWORD | 4 | * | Reserved |
| CICS SERVICE-LEVEL SUPPORT FIELD | | | | |
| (258) | ADDRESS | 4 | CSACICNA | ADDRESS OF SERVICE-LEVEL ENTRYPT |
| (25C) | ADDRESS | 4 | * | Reserved |
| SPECIAL INTERFACE AREA | | | | |
| (260) | FULLWORD | 4 | CSACOBIL | SPECIAL INTERFACE LEVEL |
| (264) | CHARACTER | 4 | CSACOBFG | FLAGS |
| (264) | BITSTRING | 1 | * | |
| | 1... .. | | CSACOBIN | Cobol II Initialized |
| | .111 1111 | | * | |
| (265) | BITSTRING | 3 | * | |
| (268) | CHARACTER | 8 | CSACOBPT | COBOL PARTITION TOKEN |
| (270) | ADDRESS | 4 | CSACOBRA | ADDRESS OF INTERFACE ROUTINE |
| CICS SYSTEM DEFINITION USER COUNT | | | | |
| (274) | FULLWORD | 4 | CSACSDCT | NUMBER OF CURRENT USERS OF CICS SYSTEM DEFINITION |
| (278) | FULLWORD | 4 | CSADBLA | DYNAMIC BACKOUT LOG ACCESS |
| (27C) | FULLWORD | 4 | CSADBSA | DYNAMIC BACKOUT SPILL ACCESS |
| SPECIAL INTERFACE FOR C | | | | |
| (280) | FULLWORD | 4 | CSACELIL | Special interface level |
| (284) | CHARACTER | 4 | CSACELFG | Flags |
| (284) | BITSTRING | 1 | CSACELF1 | Flag byte 1 |
| | 1... .. | | CSACELLD | .. EDCCICS loaded |
| | .1. | | CSACELIN | .. C/370 initialized |
| | ..1. | | CSACELMS | .. message DFH0410 sent |
| (285) | BITSTRING | 3 | * | |
| (288) | CHARACTER | 8 | CSACELPT | C/370 partition token |
| (290) | ADDRESS | 4 | CSACELRA | Address of interface rtn |
| (294) | FULLWORD | 4 | CSACELTL | Length of thread storage |
| (298) | FULLWORD | 4 | * | Reserved |
| (29C) | FULLWORD | 4 | *(1) | Reserved |
| (2A0) | ADDRESS | 4 | CSALFXAC | LIFO EXIT ROUTINE ADDRESS. |
| (2A0) | HALFWORD | 2 | CSAOPF4E | |
| (2A2) | HALFWORD | 2 | * | |
| (2A4) | FULLWORD | 4 | * | Reserved |
| FURTHER MISCELLANEOUS PROGRAM ADDRESSES AND OTHER INFORMATION | | | | |
| (2A8) | CHARACTER | | CSAOPF5S | START OF BLOCK 5 |
| (2A8) | BITSTRING | 1 | CSAPLTSC | PLTPI security options |
| | 1... .. | | CSAPLTCTM | Command level check |
| | .1. | | CSAPLTRS | Resource level check |
| | ..11 111. | | * | Reserved |
| |1 | | CSAPLTY5 | PLTPI requested |
| (2A9) | CHARACTER | 11 | CSAPLTID | PLTPI user id |
| (2A9) | UNSIGNED | 1 | CSAPLTIL | PLTPI user id length |
| (2AA) | CHARACTER | 10 | CSAPLTIV | PLTPI user id value |
| (2B4) | CHARACTER | 8 | CSAAID31 | AID token |
| (2BC) | ADDRESS | 4 | CSAEXNQS | EXEC enqueue pool (string) |
| (2C0) | ADDRESS | 4 | CSAEXNQA | EXEC enqueue pool (address) |
| (2C4) | ADDRESS | 4 | CSAEXNQG | EXEC enqueue pool (global) |
| (2C8) | ADDRESS | 4 | * | Reserved |
| (2CC) | CHARACTER | 8 | CSABMSPT | BMS CICS LIFETIME SP TOKEN |
| (2D4) | CHARACTER | 8 | CSAEDFTK | EDF Subpool token |
| (2DC) | ADDRESS | 4 | CSADBCR | address of DFHDBCR |
| (2E0) | ADDRESS | 4 | * | Reserved |
| (2E4) | ADDRESS | 4 | CSADLI | DL/I interface entry |
| (2E8) | ADDRESS | 4 | CSABFNAC | Built-in function |
| (2EC) | ADDRESS | 4 | CSABMS | BMS control entry |
| (2F0) | ADDRESS | 4 | CSAJCNA1 | Journal control entry |
| (2F4) | ADDRESS | 4 | CSAJCNA2 | Journal control entry |
| (2F8) | ADDRESS | 4 | CSADLIM | Entry point of DFHDLI |
| (2FC) | CHARACTER | | CSAOPF5E | END OF BLOCK 5 |
| (2FC) | CHARACTER | | CSAOPF6S | START OF BLOCK 6 |
| (2FC) | ADDRESS | 4 | CSAAUGWA | Address of CAU GWA |
| (300) | CHARACTER | | * | Alignment |
| (300) | CHARACTER | 8 | CSAAPXDS | Subpool for trandef ext |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (308) | CHARACTER | 8 | CSADRPGN | DYNAMIC ROUTING PROGRAM NAME |
| (310) | ADDRESS | 4 | CSAFCEP | FILE CONTROL ENTRY POINT |
| (314) | CHARACTER | 4 | * | reserved |
| (318) | ADDRESS | 4 | CSATCNCR | address of DFHZXCR |
| START OF XRF SPECIFIC ADDRESSES | | | | |
| (31C) | ADDRESS | 4 | CSAXRPNA | Address of DFHXRP |
| (320) | ADDRESS | 4 | * | Reserved |
| (324) | ADDRESS | 4 | CSAXRFNT | Address of DFHWMS |
| END OF XRF SPECIFIC ADDRESSES | | | | |
| AP Domain: Domain storage control areas | | | | |
| (328) | CHARACTER | 8 | CSADWETK | DWE subpool |
| (330) | CHARACTER | 8 | CSADS24T | Subpool token for storage below 16M |
| (338) | CHARACTER | 8 | CSARMRTT | Subpool token for recovery mgr recovery table storage |
| (340) | CHARACTER | 8 | CSADSANT | Subpool token for storage anywhere |
| AP Domain: MISC. MODULES AND SUBROUTINES | | | | |
| (348) | ADDRESS | 4 | CSAAPDSN | Dispatcher TASK_REPLY gate * |
| (34C) | ADDRESS | 4 | CSAAPJCN | Journalling gate service * |
| (350) | ADDRESS | 4 | CSAAPEPN | User exit gate program |
| (354) | ADDRESS | 4 | * | Reserved |
| (358) | ADDRESS | 4 | CSAAPSTN | Statistics gate service |
| (35C) | ADDRESS | 4 | * | Reserved |
| (360) | ADDRESS | 4 | CSAAPTIN | Timer gate service |
| (364) | ADDRESS | 4 | CSAAPTRN | Trace gate service |
| (368) | ADDRESS | 4 | CSASNUSN | SIGNON Backend Subroutine * |
| (36C) | ADDRESS | 4 | CSASUSXN | XRF Security Subroutine |
| (370) | ADDRESS | 4 | CSASUWTN | WTO Interface Subroutine * |
| (374) | ADDRESS | 4 | CSASUZSN | ZC Trace Controller Subroutine * |
| (378) | ADDRESS | 4 | CSAAPTIM | midnight task module |
| (37C) | ADDRESS | 4 | CSAAPTIX | expiry task module |
| (380) | ADDRESS | 4 | CSAAPSTG | AP Domain - statistics global storage |
| (384) | ADDRESS | 4 | CSATDNA2 | Transient Data Internal Entry - address of DFHTDQ |
| (388) | FULLWORD | 4 | CSAHOPT | HPO count |
| (38C) | ADDRESS | 4 | CSAZCUTN | attachsec userid table mgr |
| (390) | ADDRESS | 4 | CSASMATK | SM access token (for SMSR INQUIRE_ACCESS function) |
| (394) | ADDRESS | 4 | CSASMITK | SM isolation token (for SMSR SWITCH_SUBSPACE function) |
| (398) | ADDRESS | 4 | CSATSITK | TS inquire token (for TSSH INQUIRE_POOL_TOKEN func) |
| (39C) | CHARACTER | 8 | CSADU24T | Subpool token for USER key storage below 16M |
| (3A4) | ADDRESS | 4 | CSASZADA | FEPI Adapter prog address |
| (3A8) | CHARACTER | 8 | CSACOBTK | OS/VS COBOL Subpool token |
| (3B0) | CHARACTER | | CSAOPF6E | END OF BLOCK 6 |
| VECTOR of Addresses of EXEC Command Processor Modules | | | | |
| Listed in order of Group Code | | | | |
| Named as the modules, with CSA replacing DFH | | | | |
| (3B0) | CHARACTER | 336 | CSAEXECS | Base for vector |
| Group Command Group | | | | |
| (3B0) | ADDRESS | 4 | CSAEIP | 00 DFHEIP (slot left null) * |
| (3B4) | ADDRESS | 4 | CSAEI | 02 Assign, etc |
| (3B8) | ADDRESS | 4 | CSAETC | 04 Terminal |
| (3BC) | ADDRESS | 4 | CSAEIFC | 06 File |
| (3C0) | ADDRESS | 4 | CSAETD | 08 Transient Data |
| (3C4) | ADDRESS | 4 | CSAEITS | 0A Temporary Storage |
| (3C8) | ADDRESS | 4 | CSAESC | 0C Storage |
| (3CC) | ADDRESS | 4 | CSAEPC | 0E Program |
| (3D0) | ADDRESS | 4 | CSAEIIC | 10 Time |
| (3D4) | ADDRESS | 4 | CSAEKC | 12 Task |
| (3D8) | ADDRESS | 4 | CSAEJC | 14 Journalnum |
| (3DC) | ADDRESS | 4 | CSAEISP | 16 Syncpoint |
| (3E0) | ADDRESS | 4 | CSAEMS | 18 BMS |
| (3E4) | ADDRESS | 4 | CSAETR | 1A Trace |
| (3E8) | ADDRESS | 4 | CSAEDC | 1C Dump |
| (3EC) | ADDRESS | 4 | CSAEDI | 1E Issue ... |
| (3F0) | ADDRESS | 4 | CSAEBF | 20 BIF |
| (3F4) | ADDRESS | 4 | CSAUEM | 22 Enable/disable exits * |
| (3F8) | ADDRESS | 4 | CSAEGL | 24 GDS ... |
| (3FC) | ADDRESS | 4 | * | 26 Reserved |
| (400) | ADDRESS | 4 | * | 28 Reserved |
| (404) | ADDRESS | 4 | * | 2A Reserved |
| (408) | ADDRESS | 4 | * | 2C Reserved |
| (40C) | ADDRESS | 4 | * | 2E Reserved |
| (410) | ADDRESS | 4 | CSAEICRE | 30 All CREATE commands |
| (414) | ADDRESS | 4 | * | 32 Reserved |
| (418) | ADDRESS | 4 | CSAEIBAM | 34 Reserved |
| (41C) | ADDRESS | 4 | CSAEIEM | 36 Event Manager |
| (420) | ADDRESS | 4 | CSAEIWB | 38 Web commands |
| (424) | ADDRESS | 4 | CSAEIQR | 3A Reserved |
| (428) | ADDRESS | 4 | CSAEIDH | 3C Document Commands |
| (42C) | ADDRESS | 4 | CSAEISO | 3E Sockets Commands |
| (430) | ADDRESS | 4 | * | 40 Used by DL/I |
| (434) | ADDRESS | 4 | CSAEIQTM | 42 INQ/REM Autinstmodel * |
| (438) | ADDRESS | 4 | CSAEIQPN | 44 INQ/REM Partner |
| (43C) | ADDRESS | 4 | CSAEIQPF | 46 INQ/REM Profile |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|------------|------------------------------|
| (440) | ADDRESS | 4 | CSAETRX | 48 Trace (enhanced) |
| (444) | ADDRESS | 4 | CSAEIDTI | 4A Asktime/Formattime |
| (448) | ADDRESS | 4 | CSAEIQDS | 4C INQ/SET/REM File |
| (44C) | ADDRESS | 4 | CSAEIQSP | 4E INQ/SET/REM Program |
| (450) | ADDRESS | 4 | CSAEIQSX | 50 INQ/SET/REM Transaction * |
| (454) | ADDRESS | 4 | CSAEIQST | 52 INQ/SET/REM Terminal * |
| (458) | ADDRESS | 4 | CSAEIQSA | 54 INQ/SET System |
| (45C) | ADDRESS | 4 | CSAEPS | 56 Spooler |
| (460) | ADDRESS | 4 | CSAEIQSC | 58 INQ/SET/ Connection |
| (464) | ADDRESS | 4 | CSAEIQSM | 5A INQ/SET Modename |
| (468) | ADDRESS | 4 | CSAEIQSQ | 5C INQ/SET Tdqueue |
| (46C) | ADDRESS | 4 | CSAEIQSK | 5E INQ/SET Task |
| (470) | ADDRESS | 4 | CSAEIQSJ | 60 INQ/SET Journalnum |
| (474) | ADDRESS | 4 | CSAEIQSV | 62 INQ/SET Volume |
| (478) | ADDRESS | 4 | CSAEIPSE | 64 PERF Security Rebuild * |
| (47C) | ADDRESS | 4 | CSAEIQDU | 66 INQ/SET ...dump... |
| (480) | ADDRESS | 4 | CSAEIQVT | 68 INQ/SET VTAM |
| (484) | ADDRESS | 4 | CSAESE | 6A Query Security |
| (488) | ADDRESS | 4 | CSAEOP | 6C WTO, etc. |
| (48C) | ADDRESS | 4 | CSAEIQIR | 6E INQ/SET IRC |
| (490) | ADDRESS | 4 | CSAEIQMS | 70 INQ/SET Monitor, Stats * |
| (494) | ADDRESS | 4 | CSAEIPRT | 72 PERF Resettime |
| (498) | ADDRESS | 4 | CSAESN | 74 Sign-on/off |
| (49C) | ADDRESS | 4 | CSAEIPSH | 76 PERF Shutdown |
| (4A0) | ADDRESS | 4 | CSAEIQTR | 78 INQ/SET Trace.. |
| (4A4) | ADDRESS | 4 | CSAEIQDN | 7A INQ/SET Dsname |
| (4A8) | ADDRESS | 4 | CSAEIQMT | 7C old CEMT commands |
| (4AC) | ADDRESS | 4 | CSAEDCP | 7E Dump Transaction/System * |
| (4B0) | ADDRESS | 4 | CSAEIQTS | 80 INQ TSQUEUE |
| (4B4) | ADDRESS | 4 | CSAESZ | 82 FEPI - API |
| (4B8) | ADDRESS | 4 | CSAEIQSZ | 84 FEPI - SPI |
| (4BC) | ADDRESS | 4 | CSAEIACQ | 86 ACQUIRE |
| (4C0) | ADDRESS | 4 | CSAEIQUE | 88 INQ Exitprogram |
| (4C4) | ADDRESS | 4 | CSAEIQRQ | 8A INQ Reqid |
| (4C8) | ADDRESS | 4 | CSAEMEX | 8C ME Domain exec |
| (4CC) | ADDRESS | 4 | CSAEIQDE | 8E INQ CBD COMMANDS |
| (4D0) | ADDRESS | 4 | CSAEIUOW | 90 INQ UOW UOWENQ UOWLINK |
| (4D4) | ADDRESS | 4 | CSAEIQSL | 92 Inq Journalmodel |
| (4D8) | ADDRESS | 4 | CSAEIQD2 | 94 Inq/set CICS/DB2 objects |
| (4DC) | ADDRESS | 4 | CSAEIQBA | 96 Inq/set BAM objects |
| (4E0) | ADDRESS | 4 | CSAEIQCF | 98 Inq CFDTPOOL |
| (4E4) | ADDRESS | 4 | CSAEIQOP | 9A Inq Requestmodel |
| (4E8) | ADDRESS | 4 | CSAEIQSO | 9C Inq TCP/IPSERVICE |
| (4EC) | ADDRESS | 4 | CSAEIQDH | 9E Inq DOCTEMPLATE |
| (4F0) | ADDRESS | 4 | * | A0 Reserved |
| (4F4) | ADDRESS | 4 | * | A2 Reserved |
| (4F8) | ADDRESS | 4 | * | A4 Reserved |
| (4FC) | ADDRESS | 4 | * | A6 Reserved |

End of EXEC module address vector
END OF OPTIONAL FEATURES LIST

| | | | |
|-------|-----------|---|----------|
| (500) | CHARACTER | * | Reserved |
|-------|-----------|---|----------|

Constants

| Len | Type | Value | Name | Description |
|--|-----------|-------|----------|-------------------------------|
| 1 | HEX | FD | CSAMXTOF | MAXIMUM TASK INDICATOR OFF |
| OPERATING SYSTEM AND CICS LEVEL INDICATORS | | | | |
| CSAOPSYS - OPERATING SYSTEM | | | | |
| 1 | CHARACTER | E | CSAVSE | DOS/VSE |
| 1 | CHARACTER | M | CSAMVS | OS/MVS |
| 1 | CHARACTER | X | CSAMVX | MVS/ESA |
| CSAOPREL - OPERATING SYSTEM RELEASE | | | | |
| CSACIREL - CICS RELEASE | | | | |
| 1 | HEX | 14 | CSAC14 | VERSION 1, RELEASE 4 |
| 1 | HEX | 15 | CSAC15 | VERSION 1, RELEASE 5 |
| 1 | HEX | 16 | CSAC16 | VERSION 1, RELEASE 6 |
| 1 | HEX | 17 | CSAC17 | VERSION 1, RELEASE 7 CICS/MVS |
| 1 | HEX | 21 | CSAC21 | VERSION 2, RELEASE 1 CICS/ESA |
| 1 | HEX | 31 | CSAC31 | VERSION 3, RELEASE 1 |
| 1 | HEX | 32 | CSAC32 | VERSION 3, RELEASE 2 |
| 1 | HEX | 33 | CSAC33 | VERSION 3, RELEASE 3 |
| 1 | HEX | 41 | CSAC41 | VERSION 4, RELEASE 1 |
| 1 | HEX | 51 | CSAC51 | VERSION 5, RELEASE 1 |
| 1 | HEX | 52 | CSAC52 | VERSION 5, RELEASE 2 |
| 1 | HEX | 53 | CSAC53 | VERSION 5, RELEASE 3 |
| 1 | HEX | 00 | CSAMOD00 | modification level 0 |
| 1 | HEX | 01 | CSAMOD01 | modification level 1 |
| 1 | HEX | 02 | CSAMOD02 | modification level 2 |
| 1 | HEX | 03 | CSAMOD03 | modification level 3 |

| Len | Type | Value | Name | Description |
|---------------------------------|---------|-------|----------|---------------------------------|
| MODULE ENTRY ADDRESS | | | | |
| 1 | HEX | 80 | CSASCPXM | STORAGE CONTROL PROGRAM CHECK |
| TASK ABNORMAL TERMIN. INTERFACE | | | | |
| 1 | HEX | 0E | CSAICRMN | ABEND TASK INDICATOR MASK - ON |
| 1 | HEX | FE | CSAICRMF | ABEND TASK INDICATOR MASK - OFF |
| CONSTANT VALUES FOR CSADLRRC | | | | |
| 1 | DECIMAL | 0 | CSADLNRM | NORMAL RESPONSE |
| 1 | DECIMAL | 16 | CSADLDER | DISASTROUS ERROR |

CTXPA DL/I general purpose macro

MACRO NAME = DFHCLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (0) | | | DFHCTXPA | , |
| (0) | ADDRESS | 4 | CTEINIT | Init Token - Addresses the DGB |
| (4) | CHARACTER | 4 | CTEDBCTL | DCBTL ID |
| (8) | CHARACTER | 2 | CTEOFUNC (0) | DRA Over-all function code |
| (8) | CHARACTER | 1 | CTEFUNC | DRA Function code |
| |1. | | CTERSYN | "X'02" Resync |
| |1.1 | | CTEFAIL | "X'05" DRA/DBCTL Failure |
| (9) | BITSTRING | 1 | CTESFUNC | DRA Sub-function code |
| |1 | | CTEIDFL | "X'01" IDENTIFY Failed |
| |1. | | CTECANC | "X'02" INIT request failed |
| |11 | | CTEDBCF | "X'03" DBCTL has terminated |
| |1.. | | CTEDRAF | "X'04" DRA Abnormally terminating |
| |1.1 | | CTEDBCC | "X'05" /CHR FREEZE issued |
| (A) | HALFWORD | 2 | CTEIDLEN | In-doubt List Length (-1 indicates failure in Adapter) |
| (C) | ADDRESS | 4 | CTEIDPTR | In-doubt List pointer |
| (10) | CHARACTER | 8 | CTEJOBNM | Jobname of active DBCTL sub-system |
| (18) | CHARACTER | 1 | CTECRC | DBCTL Command Recognition character |
| (19) | CHARACTER | 1 | CTERGTY | DBCTL Region type |
| |1 | | CTEDBCX | "X'01" DB/DC with XRF |
| |1. | | CTEDBCO | "X'02" DB/DC Only |
| |1.. | | CTEDBCL | "X'04" DBCTL |
| (1A) | BITSTRING | 2 | CTEMITCB | Minimum number of TCBs |
| (1C) | BITSTRING | 2 | CTEMATCB | Maximum number of TCBs |
| (1E) | CHARACTER | 1 | CTERCOD | DBCTL Failure reason code |
| |1 | | CTESSF | "X'01" MVS SSI Failure |
| |1. | | CTEABND | "X'02" DBCTL Abend |
| |11 | | CTEGMF | "X'03" DRA Getmain Failure during INIT |
| |1.. | | CTEOPC | "X'04" System Operator cancelled Init |
| |1.1 | | CTEDBNZ | "X'05" DBCTL set non-zero ret on Identify |
| |11 | | CTEESTF | "X'06" DRA could not establish ESTAE |
| |111 | | CTEDRAA | "X'07" DRA abended |
| | 1.. | | CTENTUP | "X'08" DBCTL is not active |
| | 1..1 | | CTENOSS | "X'09" DBCTL does not exist |
| | 1.1. | | CTENINT | "X'0A" DBCTL is in initialisation process |
| | 1.11 | | CTERSTN | "X'0B" DBCTL init done, waiting for restart |
| | 11.. | | CTERST | "X'0C" DBCTL is in restart process |
| | 11.1 | | CTEBRST | "X'0D" Backup in ERE mode |
| | 111. | | CTETKOV | "X'0E" Takeover mode |
| | 1111 | | CTEITCF | "X'0F" Internal DRA TERM after CHEFZ |
| DS CL3 | | | | |
| (1F) | BITSTRING | 4 | CTEPARETC | PAPARETC |
| (23) | BITSTRING | 2 | CTEASID | DBCTL ASID |
| (25) | CHARACTER | 8 | CTEJOBID | DBCTL JES Job ID |
| (2D) | CHARACTER | 8 | CTERSEN | DBCTL RSE Name |
| (38) | FULLWORD | 4 | CTENOMITHD | Number of times min thread hit |
| (3C) | FULLWORD | 4 | CTENOMATHD | Number of times max thread hit |
| (40) | FULLWORD | 4 | CTEELMAX | Elapsed time at max thread |
| (44) | FULLWORD | 4 | CTEHIWAT | Highest number of threads attached |
| | .1.. 1... | | CTELNGTH | "-DFHCTXPA" End of Control Exit Parameter List |

CWE DL/I general purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE

| Offset | Type | Len | Name (Dim) | Description |
|--------|------------|-----|--------------|-----------------------------|
| Hex | | | | |
| (0) | | | DFHCWE | ' |
| (0) | FULLWORD | 4 | CWELEN | Length of CWE |
| (4) | ADDRESS | 4 | CWEFCHN | Forward chain |
| (8) | ADDRESS | 4 | CWEBCHN | Backwards chain |
| (C) | BITSTRING | 1 | CWEFLAG | CWE flags |
| | 1... .. | | CWEINUSE | "X'80" CWE in use bit |
| (D) | BITSTRING | 1 | CWETYPE | Type of CWE entry |
| | 11.. 1..1 | | CWETERM | "C'!" Terminate CWE |
| (E) | BITSTRING | 1 | (2) | reserved |
| (10) | BITSTRING | 1 | CWEDUMMY (0) | CWE function dependent area |
| | ...1 | | LCWETERM | ""-DFHCWE" |

DBU DBCTL unsolicited statistics

CONTROL BLOCK NAME = DFHDBUDS
 DESCRIPTIVE NAME = CICS DBCTL Unsolicited Statistics
 FUNCTION = This DSECT describes the DBCTL unsolicited statistics
 This copybook maps DBCTL unsolicited statistics. The storage area is built at the end of each DBCTL session. The copybook is used by DFHSTUP and user programs requiring access to DBCTL statistics data.
 For Local DL/I statistics see DFHA18DS.
 LIFETIME = Duration of the domain call to statistics domain
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In DBCTL
 GLOBAL VARIABLES (Macro pass) = None
 and STADTIME to 'local STCK'

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|------------------------------------|
| Hex | | | | |
| (0) | | | DFHDBUDS | DBCTL USS |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | DBULEN | Length of data area |
| | ...1 11.. | | DBUIDE | "28" DBCTL USS id mask |
| (2) | ADDRESS | 2 | DBUID | DBCTL USS stats id |
| |1 | | DBUVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | DBUDVERS | DBCTL USS version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | STATSENO | CICS-DBCTL session No |
| (C) | CHARACTER | 4 | STATDBID | DBCTL id |
| (10) | CHARACTER | 8 | STARSEN | RSE name |
| (18) | BITSTRING | 8 | STACTIME | Connect time (GMT STCK) |
| (20) | BITSTRING | 8 | STADTIME | Disconnect time (GMT STCK) |
| (28) | HALFWORD | 2 | STAMITHD | Minimum number of threads |
| (2A) | HALFWORD | 2 | STAMATHD | Maximum number of threads |
| (2C) | FULLWORD | 4 | STANOMITHD | No. of times min threads hit |
| (30) | FULLWORD | 4 | STANOMATHD | No. of times max threads hit |
| (34) | BITSTRING | 8 | STAELEMAX | Elapsed time at max threads |
| (3C) | FULLWORD | 4 | STAHIWAT | Hi-water for No. of threads |
| (40) | FULLWORD | 4 | STAPBSU | Total No. successful PSB schedules |
| (44) | BITSTRING | 8 | STALCTIM | Connect Time (Local STCK) |
| (4C) | BITSTRING | 8 | STALDTIM | Disconnect Time (Local STCK) |
| | .1.1 .1.. | | DBUEND | "" End of DSECT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| | .1.1 .1.. | | DBUCLEN | ""-DBULEN" Length of DSECT |

DBWMS XRF/DBCTL last message sent

CONTROL BLOCK NAME = DFHDBWMS
 DESCRIPTIVE NAME = CICS XRF/DBCTL Last Message Sent
 FUNCTION = Maps the XRF message for DBCTL
 LIFETIME =
 Storage obtained by GETMAIN
 LOCATION = CSA->OPFL->DLP->DGB->DXPS->DBWMS
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 Contained in PL/AS Copy Book DFHDXMAC
 Invoke by DXMSGPS NAME(qualifier)
 the qualifier is used to allow multiple copies of
 the message to be defined in the same program
 (rather than use of ->)
 EXTERNAL REFERENCES = None
 DATA AREAS = Contains names and lds of IMS job
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|-----------------|---------------------------------|
| (0) | STRUCTURE | 78 | DFHDBWMS_DXMSG | |
| DECLARE THE DBCTL MESSAGE MAPPING | | | | |
| (0) | CHARACTER | 4 | DXMSG_WMSSBCID | IMS ssid |
| (4) | CHARACTER | 8 | DXMSG_WMSSRSENM | IMS RSE name |
| (C) | CHARACTER | 8 | DXMSG_WMSSJNAME | IMS MVS jobname |
| (14) | CHARACTER | 8 | DXMSG_WMSSJOBID | IMS Jes Jobid |
| (1C) | CHARACTER | 4 | DXMSG_WMSSMFID | MVS SMF id |
| (20) | CHARACTER | 1 | DXMSG_WMSSIND | MVS System Indicator |
| | 1... .. | | DXMSG_XCFA | XCF services available |
| | .111 1111 | | * | Reserved |
| (21) | CHARACTER | 8 | DXMSG_WMSSPLX | XCF syslex name |
| (29) | CHARACTER | 8 | DXMSG_WMSSNAM | XCF system name |
| (31) | CHARACTER | 4 | DXMSG_WMSSSTOK | MVS system instance token |
| (35) | CHARACTER | 4 | DXMSG_WMSSJESID | SSID of active JES |
| (3A) | HALFWORD | 2 | DXMSG_WMSSASID | IMS MVS asid |
| (3C) | CHARACTER | 1 | DXMSG_WMSSITYPE | IMS region type |
| (40) | FULLWORD | 4 | DXMSG_WMSSUERC | User Exit Return Code |
| (44) | BITSTRING | 4 | DXMSG_WMSSCTIME | IMS connect time |
| (48) | BITSTRING | 4 | DXMSG_WMSSDTIME | IMS disconnect time |
| (4C) | CHARACTER | 1 | DXMSG_FLGS1 | FLGS to show message type |
| | 1... .. | | DXMSG_DBCF | DBCTL failure |
| | .1. | | DXMSG_DRAF | DRA failure |
| | .1. | | DXMSG_CON | Connection complete |
| | ...1 | | DXMSG_CATCH | Catchup message |
| | 1... | | DXMSG_DISC | Disconnection complete |
| |1.. | | DXMSG_ERROR | Error in control tran / exit |
| |11 | | * | Filler for remainder of byte |
| (4D) | CHARACTER | 1 | DXMSG_FLGS2 | FLGS to show active environment |
| | 1... .. | | DXMSG_MVSID | MVSid in active AXI |
| | .1. | | DXMSG_APPLID | Active applid in AXI |
| | .1. | | DXMSG_JES | Active CICS & IMS on same JES |
| | ...1 | | DXMSG_ALT | Alternate found on active CEC |
| | 1... | | DXMSG_CMD | CMD issued OK on active CEC |
| |111 | | * | Filler for remainder of byte |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------|----------------------------|
| 1 | DECIMAL | 0 | DBCTL_DISC | DBCTL is not connected |
| 1 | DECIMAL | 4 | DBCTL_CONN | DBCTL is connected |
| 1 | DECIMAL | 8 | DBCTL_MCONN | DBCTL is morally connected |

DCR Transaction dump record formats

CONTROL BLOCK NAME = DFHDCRPS
 DESCRIPTIVE NAME = CICS Transaction Dump Record Formats
 FUNCTION = Contains the structures for transaction dump records
 : SPECIFIED_RMODE/AMODE.
 DUMP DATASET RECORD
 THIS DSECT DESCRIBES THE FORMAT OF THE DIFFERENT TYPES OF RECORDS WRITTEN TO THE DUMP DATASET FOR TRANSACTION DUMPS. IT IS USED BY DU DOMAIN TO CREATE RECORDS AND BY DFHDUxxx TO READ THEM.
 BLOCK FORMAT

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | 4 | BLOCK_HEADER | |
| (0) | UNSIGNED | 2 | DCBLKLEN | BLOCK LENGTH |
| (2) | UNSIGNED | 2 | * | PADDING INIT(0) |
| (4) | CHARACTER | | DCRECST | START OF FIRST RECORD |

STANDARD RECORD HEADING

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---------------------------------|
| (0) | STRUCTURE | 8 | RECORD_HEADER | |
| (0) | UNSIGNED | 2 | DCRECLEN | RECORD LENGTH |
| (2) | UNSIGNED | 2 | * | PADDING INIT(0) |
| (4) | BITSTRING | 1 | DCIRTSI | RECORD TYPE |
| (5) | BITSTRING | 1 | DCIND1 | EXCESS LENGTH INDICATOR |
| | | | * | SPARE |
| | | | DCLAST | ..LAST RECORD IN BLOCK |
| | | | DCRESTR | .. DUMP TO BE RESTARTED |
| | | | DCDUPLS | .. DUPLICATE LINES SKIPPED |
| | | | DCCONTN | .. CONTINUATION RECORD |
| | | | DCOVRN | .. OVER-LENGTH RECORD |
| (6) | BITSTRING | 1 | DCIND2 | ERROR INDICATOR |
| | | | DCBADSEG | .. BAD SEGMENT LIST |
| | | | DCMVFAIL | .. MVCL FAILED (DUXW) |
| | | | * | SPARE |
| | | | DCBADCHN | .. BROKEN STORAGE CHAIN |
| | | | DCPGMCHK | .. PROGRAM CHECK IN DFHDPC |
| | | | DCNCICIC | .. NON-CICS STORAGE OK |
| | | | DCNONCIC | .. NON-CICS STORAGE UNEXPECTEDY |
| | | | DCBADSA | .. STORAGE ACCOUNTING ERROR |
| (7) | BITSTRING | 1 | DCSPACE | SPACING CONTROL |
| (8) | CHARACTER | | DCDATST | START OF TYPE SPECIFIC DATA |

STORAGE AREA RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 12 | INDEX_AREA | |
| (0) | FULLWORD | 4 | DCADDR | ADDRESS OF AREA DUMPED |
| (4) | UNSIGNED | 4 | DCLENG | LENGTH OF AREA DUMPED |
| (8) | UNSIGNED | 4 | DCINDX | INDEX OF FIRST BYTE |
| (8) | UNSIGNED | 4 | * | |
| (C) | CHARACTER | | DCDATA | START OF DATA |

DUMP HEADER RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|-----------------------------|
| (0) | STRUCTURE | 48 | DUMP_HEADER_RECORD | |
| (0) | CHARACTER | 8 | DCIDRC | INIT('IDRECORD') |
| (8) | CHARACTER | 4 | DCTASKID | TASK ID FROM PCTTI |
| (C) | CHARACTER | 4 | DCDUMPC | DUMP CODE FROM TCADCDC |
| (10) | CHARACTER | 9 | DCDUMPST | DUMP ID |
| (19) | CHARACTER | 6 | DCTIME | TIME OF DAY (HHMMSS) |
| (1F) | BITSTRING | 1 | DCDATFM | FULL DATE FORMAT - SEE KETI |
| (20) | CHARACTER | 8 | DCDATE | DATE |
| (28) | CHARACTER | 8 | DCAPPLID | SYSTEM APPLID |

TRACE TABLE HEADER RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|----------------------|
| (0) | STRUCTURE | 36 | TRACE_TABLE_HEADER | |
| (0) | CHARACTER | 32 | DCTHDR | TRACE HEADER |
| (20) | FULLWORD | 4 | DCHDRA | TRACE HEADER ADDRESS |

LINE SEGMENT OR ERROR MESSAGE RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 132 | LINE_SEG | |
| (0) | CHARACTER | 132 | DCLINE | |

LIFO INTERPRETATION RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 62 | LIFO_INT | |
| (0) | CHARACTER | 26 | DCLIFOP1 | INIT('LIFO STACK ENTRY OWNED BY ') |
| (1A) | CHARACTER | 8 | DCLIFOWN | MODULE-NAME |
| (22) | CHARACTER | 11 | DCLIFOP2 | INIT(' / LINK-REG') |
| (2D) | CHARACTER | 10 | DCLIFOP3 | ' OFFSET = ' OR ' IS EMPTY.' |
| (37) | CHARACTER | 7 | DCLIFOFF | LINK-REG OFFSET |

PSW RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 16 | PSW_RECORD | |
| (0) | CHARACTER | 16 | DCPSW | PSW |
| (0) | CHARACTER | 8 | * | .. EC-MODE PSW |
| (8) | CHARACTER | 8 | DCINT | .. INTERRUPT INFORMATION |

CONTROL BLOCK INDEX ITEM RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 10 | CONT_INDEX | |
| (0) | FULLWORD | 4 | DCCBST | DATA START POINT |
| (4) | CHARACTER | 6 | DCCBNAME | CONTROL BLOCK NAME |
| (A) | CHARACTER | | DCCBEND | DATA END POINT |
| (A) | CHARACTER | | DCCBHDR | HEADING DATA |

MODULE INDEX ITEM RECORD

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | 30 | MODULE_INDEX | |
| (0) | CHARACTER | 8 | PROGRAM_NAME | |
| (8) | FULLWORD | 4 | PROGRAM_LENGTH | |
| (C) | ADDRESS | 4 | ENTRY_POINT | |
| (10) | ADDRESS | 4 | LOAD_POINT | |
| (14) | FULLWORD | 4 | INSTANCE_USE_COUNT | |

THE VALUES OF THE FOLLOWING FIELDS ARE DEFINED IN THE STRUCTURE 'DFHLDLDA'.

| | | | | |
|------|-----------|---|-------------------|--|
| (18) | CHARACTER | 1 | PROGRAM_TYPE | |
| (19) | CHARACTER | 1 | PROGRAM_USAGE | |
| (1A) | CHARACTER | 1 | PROGRAM_ATTRIBUTE | |
| (1B) | CHARACTER | 1 | SPECIFIED_AMODE | |
| (1C) | CHARACTER | 1 | SPECIFIED_RMODE | |
| (1D) | CHARACTER | 1 | LOCATION | |

Interrupt PSW & registers

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--------------------------------|
| (0) | STRUCTURE | 80 | INT_DATA | |
| (0) | CHARACTER | 8 | INT_PSW (2) | INTERRUPT PSW |
| (10) | CHARACTER | 64 | INT_REGS | REGISTERS AT TIME OF INTERRUPT |

SIZE OF SUCCESSFUL GETMAIN FOR TRACE TABLE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | 13 | GMAIN_DATA | |
| (0) | FULLWORD | 4 | TDTR_SIZE_GMAIN | ALLOCATED STORAGE |
| (4) | FULLWORD | 4 | TDTR_SIZE_DUA | REQUESTED SIZE |
| (8) | FULLWORD | 4 | TDTR_SIZE_INT | INTERNAL TR TAB SZ |
| (C) | CHARACTER | 1 | TDTR_TYPE | SELECTION TYPE |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|-----------------------------|
| 1 | HEX | 01 | DCSSIC | SEGMENT STORAGE |
| 1 | HEX | 03 | DCCSAIC | CSA STORAGE |
| 1 | HEX | 05 | DCTCUA | TCTTE USER AREA |
| 1 | HEX | 08 | DCTERMIC | TERMINAL STORAGE |
| 1 | HEX | 09 | DCFCADIC | FCA DEST. CONTROL TABLE |
| 1 | HEX | 0A | DCFCATIC | FCA TERMINAL CONTROL TABLE |
| 1 | HEX | 0B | DCPCTIC | PROGRAM CONTROL TABLE |
| 1 | HEX | 0C | DCPPTIC | PROCESSING PROGRAM TABLE |
| 1 | HEX | 0D | DCFCATIC | FILE CONTROL TABLE |
| 1 | HEX | 0E | DCDCTIC | DESTINATION CONTROL TABLE |
| 1 | HEX | 0F | DCTCTIC | TERMINAL CONTROL TABLE |
| 1 | HEX | 10 | DCDTIC | JULIAN DATE & TIME OF DAY |
| 1 | HEX | 12 | DCCOMIC | COMMUNICATION AREA |
| 1 | HEX | 13 | DCTCLUC | TCTTE LUC EXTENSION |
| 1 | HEX | 14 | DCTCLCSB | TCTTE LUC SEND BUFFER |
| 1 | HEX | 15 | DCTCLCRB | TCTTE LUC RECEIVE BUFFER |
| 1 | HEX | 16 | DCTCBMEX | TCTTE BMS EXTENSION |
| 1 | HEX | 17 | DCTLRIC | TRANSACTION TRAILER RECORD |
| 1 | HEX | 18 | DCPROGAB | PROG.CHECK ASSOCIATED STG. |
| 1 | HEX | 19 | DCU24IC | USER24 SUBPOOL STORAGE |
| 1 | HEX | 1A | DCTC31IC | CICS31 SUBPOOL STORAGE |
| 1 | HEX | 1B | DCTCAPP | INT PSW & REGS 0 - 15 |
| 1 | HEX | 1C | DCDBLIC | DYNAMIC LOG STORAGE |
| 1 | HEX | 1D | DCTC24IC | CICS24 SUBPOOL STORAGE |
| 1 | HEX | 1E | DCU31IC | USER31 SUBPOOL STORAGE |
| 1 | HEX | 20 | DCPROGIC | PROGRAM STORAGE |
| 1 | HEX | 21 | DCMCBIC | MESSAGE CONTROL BLOCK |
| 1 | HEX | 23 | DCSITIC | SYSTEM INITIALIZATION TABLE |
| 1 | HEX | 24 | DCOPFLIC | CSA OPTIONAL FEATURES LIST |

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------|----------------------------|
| 1 | HEX | 25 | DCRSAIC | RSA STORAGE |
| 1 | HEX | 26 | DCLIFOIC | LIFO STORAGE |
| 1 | HEX | 27 | DCPCBIC | DL/I PCB |
| 1 | HEX | 28 | DCISBIC | DL/I ISB |
| 1 | HEX | 29 | DCPSTIC | DL/I PST |
| 1 | HEX | 2A | DCSCDIC | DL/I SCD |
| 1 | HEX | 2B | DCDGB | DL/I DGB |
| 1 | HEX | 2C | DCDGBCT | DL/I DGB |
| 1 | HEX | 2D | DCDSB | DL/I DSB |
| 1 | HEX | 2E | DCDSBRESP | DL/I DSB RESPONSE |
| 1 | HEX | 2F | DCUIB | DL/I USER RESPONSE CODES |
| 1 | HEX | 30 | DCTIE | Task Interface Element |
| 1 | HEX | 32 | DCUEPAR | UEPAR Plist for TRUE |
| 1 | HEX | 3C | DCPSNTIC | PSEUDO SIGN-ON TABLE ENTRY |
| 1 | HEX | 41 | DCFDHDR | FORMATTED DUMP HEADER |
| 1 | HEX | 42 | DCFDSUP | SUPERVISOR DUMP |
| 1 | HEX | 43 | DCFDPTN | PARTITION DUMP |
| 1 | HEX | 44 | DCFDPSW | PSW |
| 1 | HEX | 45 | DCFDREGS | REGISTERS |
| 1 | HEX | 46 | DCFDLINE | LINE SEGMENT |
| 1 | HEX | 47 | DCFDHEX | HEXADECIMAL |
| 1 | HEX | 48 | DCFDERR | ERROR MESSAGE |
| 1 | HEX | 49 | DCFDCIND | CONTROL BLOCK INDEX |
| 1 | HEX | 4A | DCFDMIND | MODULE INDEX |
| 1 | HEX | 4B | DCFDDSA | DYNAMIC STORAGE AREA |
| 1 | HEX | 7F | DCFDTLR | FORMATTED DUMP TRAILER |
| 1 | HEX | 4C | DCTRHEAD | TRACE HEADER REC |
| 1 | HEX | 4D | DCTRREC | TRACE RECORD |
| 1 | HEX | 4E | DCTRTAIL | TRACE TRAILER REC |
| 1 | HEX | FF | DCLRIC | END OF DUMP DATA SET |

DCT Destination control table

```

MODULE NAME = DFHDCTPS
DESCRIPTIVE NAME = Transient Data Queue Entries
                  CICS/ESA AP Domain
FUNCTION =
  Copybook DFHDCTPS provides structures, DFHDCTPS and
  DCTSDSCI, that are used to describe entries in the
  Destination Control Table (DCT).
  DFHDCTPS describes entries for queues, these will be
  generated by invocations of the following macros
  1. DFHDCT TYPE=EXTRA
  2. DFHDCT TYPE=INDIRECT
  3. DFHDCT TYPE=INTRAPARTITION
  4. DFHDCT TYPE=REMOTE
  while DCTSDSCI describes entries for data sets, these
  will be generated by invocations of the following
  macro
  1. DFHDCT TYPE=SDSCI
LIFETIME =
  The lifetime of all DCT entries is essentially that of
  CICS.
STORAGE CLASS =
  All DCT entries, with the exception of those for queue
  CXRF and data set DFHCXRF, are located in the DCT load
  module.
  The exceptions are located in storage allocated from
  the DFHTDG24 subpool.
LOCATION =
  Entries for queues are located from the Table Manager
  DCT table.
  Entries for data sets are located from the associated
  entries for extrapartition queues.
INNER CONTROL BLOCKS =
  Each data set entry contains a Data Control Block (DCB).
NOTES :
DEPENDENCIES =
  S/370
RESTRICTIONS =
  There are no restrictions.
MODULE TYPE =
  Control block definition.
Moving the DCT above the line
As SDSCIs interact with QSAM they must be
resident below the line. So the complete DCT has been copied
above the line with the SDSCI referred to as the model SDSCI.
A copy of this occurs below the line and it is known as the real
SDSCI. Existing SDSCI addresses refer to the real SDSCI and a
new field (TDEXASDM) has been added to contain the address of
model SDSCI. In the SDSCI dsect a new field (DCTSDSRP) has been
added. This contains the address of the real SDSCI which
corresponds to the model SDSCI.
DESTINATION CONTROL TABLE TABLE ENTRY
--- COMMON PREFIX ---
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|---------------------------|
| (0) | STRUCTURE | 56 | TDDCTCMN | |
| (0) | CHARACTER | 8 | TDDCT_PREFIX | Prefix |
| (8) | CHARACTER | 4 | TDDCTDID | Identification |
| (C) | BITSTRING | 1 | TDDCTDT | Attributes |
| | 1... .. | | TDINDTBM | - intrapartition (I/P) |
| | .1.. .. | | TDEXTRBM | - extrapartition (E/P) |
| | ..1. | | TDINDBM | - indirect |
| | ...1 | | TDRMTBM | - remote |
| | 1... | | TDTIBM | - (I/P) - task triggered |
| |1.. | | * | Reserved |
| |1. | | TDNOTRM | - (I/P) - DESTFAC=FILE |
| |1 | | TDSYSTEM | - (I/P) - DESTFAC=SYSTEM |
| (D) | UNSIGNED | 1 | * | - Reserved |
| (E) | HALFWORD | 2 | TDDCTELN | Entry length |
| (10) | CHARACTER | 12 | TDDCT_COMMON_STATS | |
| (10) | FULLWORD | 4 | TDDCT_WRITES | Number of writes |
| (14) | FULLWORD | 4 | TDDCT_READS | Number of reads |
| (18) | FULLWORD | 4 | TDDCT_DELETES | Number of deletes |
| (1C) | CHARACTER | 4 | TDDCT_TXN_NUMBER | Owning transaction number |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | TDDCTSYS | - N(remote system) |
| (24) | CHARACTER | 4 | TDDCTRID | - N(remote queue) |
| (28) | CHARACTER | 8 | TDRDOGRP | - RDO group identifier |
| (30) | HALFWORD | 2 | TDDCTRLN | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BITSTRING | 1 | TDTDSFLO | Type independent status |
| | 1... .. | | TDDCT_ENABLED | - Enabled |
| | .1.. .. | | TDDCT_DISABLING | - Disabling |
| | ..1. | | TDDCT_DISABLED | - Disabled |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... | | TDRIGRM | - msg has been put out to warn that Trig Tranid=Remote |
| | 1... | | TDATFAIL | - msg has been put out to warn of Tran Attach Fail |
| |1.. | | TDSCHFAL | - msg has been put out to warn of Tran Schedule Fail |
| |1. | | TDUSFAIL | - msg has been put out to warn of US call failure |
| |1 | | * | - Reserved |
| (35) | BITSTRING | 1 | TDTSFL1 | Type dependent status - 1 |
| (36) | BITSTRING | 1 | TDTSFL2 | Type dependent status - 2 |
| (37) | BITSTRING | 1 | TDTSFL3 | Type dependent status - 3 |
| (38) | CHARACTER | | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- INDIRECT DESTINATIONS ---
 --- -----

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 64 | TDDCTIND | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BITSTRING | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BITSTRING | 1 | * | Type independent status |
| (35) | BITSTRING | 1 | * | Type dependent status - 1 |
| (36) | BITSTRING | 1 | * | Type dependent status - 2 |
| (37) | BITSTRING | 1 | * | Type dependent status - 3 |
| (38) | CHARACTER | 8 | * | Associated queue |
| (38) | CHARACTER | 4 | TDDCTIDN | - N(indirect queue) |
| (3C) | ADDRESS | 4 | * | Reserved |
| (40) | CHARACTER | | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- REMOTE DESTINATIONS ---

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 56 | TDDCTREM | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BITSTRING | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BITSTRING | 1 | * | Type independent status |
| (35) | BITSTRING | 1 | * | Type dependent status - 1 |
| (36) | BITSTRING | 1 | * | Type dependent status - 2 |
| (37) | BITSTRING | 1 | * | Type dependent status - 3 |
| (38) | CHARACTER | | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
 --- EXTRAPARTITION DESTINATIONS ---

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------------------------|
| (0) | STRUCTURE | 136 | TDDCTEXP | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BITSTRING | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BITSTRING | 1 | * | Type independent status |
| (35) | BITSTRING | 1 | TDEXSFL1 | Type dependent status - 1 |
| | | | TDEXOPIN | - OPEN = INITIAL |
| | | | * | - Reserved |
| (36) | BITSTRING | 1 | TDEXSFL2 | Type dependent status - 2 |
| | | | TDEXOPIP | - OPEN in progress |
| | | | TDEXOPEN | - OPEN |
| | | | TDEXCLIP | - CLOSE in progress |
| | | | TDEXCLOS | - CLOSED |
| | | | TDEXFEIP | - FEOV in progress |
| | | | TDEXDA | - Dynamically Allocated |
| | | | TDEXPA | - Pre-allocated |
| | | | TDEXASYO | - Allocated to SYSOUT |
| (37) | BITSTRING | 1 | TDEXSFL3 | Type dependent status - 3 |
| | | | TDEXNOSP | - NOSPACE raised |
| | | | TDEXQZER | - QZERO raised |
| | | | TDEXABND | - abend occurred |
| | | | TDEXIOER | - I/O error occurred |
| | | | * | - Reserved |
| (38) | BITSTRING | 1 | TDEXDISP | Disposition |
| | | | TDEXSHR | - SHR |
| | | | TDEXOLD | - OLD |
| | | | TDEXMOD | - MOD |
| | | | * | - reserved |
| (39) | BITSTRING | 1 | * | - reserved |
| (3A) | BITSTRING | 1 | * | - reserved |
| (3B) | CHARACTER | 1 | TD_EXTRA_ | |
| | | | SYSOUT_CLASS | |
| | | | | - Sysout Class |
| (3C) | CHARACTER | 44 | TDEXDSN | Data-set name |
| (68) | CHARACTER | 16 | * | Associated SDSCI |
| (68) | CHARACTER | 8 | TDEXNSDS | - N(real SDSCI) |
| (70) | ADDRESS | 4 | TDEXASDS | - A(real SDSCI) |
| (74) | ADDRESS | 4 | TDEXASDM | - A(model SDSCI) |
| (78) | CHARACTER | 8 | * | Request processing chain |
| (78) | FULLWORD | 4 | TD_EXTRA_Q_OWNER | - Identify transaction the owner |
| (7C) | ADDRESS | 4 | TDEXAWCB | - A(first MWCB) or 0 |
| (80) | CHARACTER | 8 | TDEXMEMB | Member name if PDS |
| (88) | CHARACTER | | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
--- INTRAPARTITION DESTINATIONS ---

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 212 | TDDCTINP | |
| (0) | CHARACTER | 8 | * | Prefix |
| (8) | CHARACTER | 4 | * | Identification |
| (C) | BITSTRING | 1 | * | Attributes |
| (D) | UNSIGNED | 1 | * | Resource security level |
| (E) | HALFWORD | 2 | * | Entry length |
| (10) | CHARACTER | 16 | * | Common stats |
| (10) | FULLWORD | 4 | * | Statistics |
| (14) | FULLWORD | 4 | * | Statistics |
| (18) | FULLWORD | 4 | * | Statistics |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | 20 | * | Associated queue |
| (20) | CHARACTER | 4 | * | - N(remote system) |
| (24) | CHARACTER | 4 | * | - N(remote queue) |
| (28) | CHARACTER | 8 | * | - RDO group identifier |
| (30) | HALFWORD | 2 | * | - Default data length |
| (32) | HALFWORD | 2 | * | - Reserved |
| (34) | BITSTRING | 1 | * | Type independent status |
| (35) | BITSTRING | 1 | TDINSFL1 | Type dependent status - 1 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-----------------------------------|
| | 1... .. | | TDDCTSPR | - physically recoverable |
| | .1.. .. | | TDDCTSLR | - logically recoverable |
| (36) | BITSTRING | 1 | * | Type dependent status - 2 |
| (37) | BITSTRING | 1 | * | Type dependent status - 3 |
| | 1... .. | | TDDCT_START_RBA_REC | Start RBA recovered |
| | .1.. .. | | TDDCT_READ_RBA_REC | Read RBA recovered |
| | ..1. | | TDDCT_WRITE_RBA_REC | Write RBA recovered |
| | ...1 | | TDDCT_NUMELEMS_REC | Numelems recovered |
| | 1... | | TDDCT_TDTIBM_REC | TDTIBM recovered |
| |111 | | * | Reserved |
| (38) | CHARACTER | 20 | * | |
| (38) | FULLWORD | 4 | TDDCTDQL | DEST TRIGGER LEVEL |
| (3C) | CHARACTER | 4 | TDDCTTID | TRANS ID FOR ATI |
| (40) | CHARACTER | 4 | TDDCTTED | TERM ID FOR ATI |
| (44) | ADDRESS | 4 | TDDCTAAD | A(AID FOR ATI) |
| (48) | FULLWORD | 4 | TDDCT_NO_TIMES_TRIGRD | #times triggered |
| (4C) | CHARACTER | 8 | * | |
| (4C) | FULLWORD | 4 | TDDCT_CURRENT_CIS | CIs allocated to Q. |
| (50) | FULLWORD | 4 | TDDCT_PEAK_CIS | Peak CIs allocated to this Q. |
| (54) | CHARACTER | 96 | * | |
| (54) | CHARACTER | 16 | * | |
| (54) | FULLWORD | 4 | TDDCT_COMMITTED_START_RBA | |
| (58) | FULLWORD | 4 | TDDCT_COMMITTED_WRITE_RBA | |
| (5C) | FULLWORD | 4 | TDDCT_COMMITTED_READ_RBA | |
| (60) | FULLWORD | 4 | TDDCT_COMMITTED_NUMELEMS | |
| (64) | CHARACTER | 16 | * | |
| (64) | ADDRESS | 4 | TDDCT_READ_TDQUB_PTR | -> to TDQUB Reserved |
| (68) | FULLWORD | 4 | * | |
| (6C) | CHARACTER | 8 | TDDCT_UOW_OWNING_READ_NQ | Owning UOWID |
| (74) | CHARACTER | 16 | * | |
| (74) | ADDRESS | 4 | TDDCT_WRITE_TDQUB_PTR | -> to TDQUB Reserved |
| (78) | FULLWORD | 4 | * | |
| (7C) | CHARACTER | 8 | TDDCT_UOW_OWNING_WRITE_NQ | Owning UOWID |
| (84) | CHARACTER | 33 | * | |
| (84) | CHARACTER | 8 | TDDCT_PR_Q_LOG_STCK | Time PR Q log record written |
| (8C) | CHARACTER | 8 | TDDCT_PR_START_RBA_REC_STCK | Time start RBA recovered |
| (94) | CHARACTER | 8 | TDDCT_PR_READ_RBA_REC_STCK | Time read RBA recovered |
| (9C) | CHARACTER | 8 | TDDCT_PR_WRITE_RBA_REC_STCK | Time write RBA recovered |
| (A4) | BITSTRING | 1 | TDDCT_PR_LOG_RECORD_TYPE | Record type |
| | 1... .. | | TDDCT_READQ | READQ |
| | .1.. .. | | TDDCT_WRITEQ | WRITEQ |
| | ..1. | | TDDCT_DELETEQ | DELETEQ |
| | ...1 | | TDDCT_FIRST_WRITEQ | First write |
| | 1111 | | * | Reserved |
| (A5) | CHARACTER | 3 | * | |
| (A5) | BITSTRING | 1 | TDDCT_FLAGS | Flag byte |
| | 1... .. | | * | Reserved |
| | .1.. .. | | TDDCT_UNCOMMIT_DATA_WRITTEN | Uncommitted data written to queue |
| | ..1. | | TDDCT_Q_INDOUBT | Q indoubt |
| | ...1 1111 | | * | Reserved |
| (A6) | CHARACTER | 2 | * | Reserved |
| (A8) | ADDRESS | 4 | TDDCT_SUSPEND_TOKEN | DSSR suspnd token@PAA |
| (AC) | CHARACTER | 8 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------------|---|
| (AC) | ADDRESS | 4 | TDDCTFCN | - A(FIRST MQCB) |
| (B0) | ADDRESS | 4 | TDDCTBCN | - A(LAST MQCB) |
| (B4) | CHARACTER | 8 | * | DCTE request chain |
| (B4) | FULLWORD | 4 | TD_INTRA_Q_OWNER | - owning transaction identifier |
| (B8) | ADDRESS | 4 | TDINAWCB | - A(first MWCB) or 0 |
| (BC) | FULLWORD | 4 | TDDCT_INTRA_ USE_COUNT | Use count |
| (C0) | ADDRESS | 4 | * | Reserved |
| (C4) | CHARACTER | 4 | * | |
| (C4) | BITSTRING | 1 | TDDCT_INDOUBT | Indoubt option for LR Q's |
| | | | TDDCT_REJECT | Reject |
| | | | TDDCT_HEURISTIC | Heuristic |
| | | | TDDCT_QUEUE | Queue |
| | | | * | Reserved |
| (C5) | BITSTRING | 1 | * | Reserved Userid data for ..non-terminal AT1 |
| (C6) | BITSTRING | 1 | TDDCTFLC | Userid data status |
| | | | TDDCTUOK | - TDDCTUOK is set for use |
| | | | * | - Reserved |
| (C7) | UNSIGNED | 1 | TDDCTUIL | Length of userid - x'0' with default userid |
| (C8) | CHARACTER | 8 | TDDCTUID | Userid - x'0' with default userid |
| (D0) | UNSIGNED | 4 | TDDCTUTK | User token - x'0' with default userid |
| (D4) | CHARACTER | | * | |

DESTINATION CONTROL TABLE TABLE ENTRY
--- SDSCI ---

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 140 | DCTSDSPS | |
| (0) | CHARACTER | 40 | * | |
| (0) | FULLWORD | 4 | DCTSDSLN | length of SDSCI et al |
| (4) | ADDRESS | 4 | DCTSDSQP | A(owning DCTE) or 0 |
| (8) | ADDRESS | 4 | DCTSDSRP | A(real SDSCI) or 0 |
| (C) | CHARACTER | 8 | DCTSDSOC | OPEN/CLOSE words |
| (C) | UNSIGNED | 1 | DCTSDSOO | - open options |
| (D) | ADDRESS | 3 | * | - A(0) |
| (10) | ADDRESS | 4 | DCTSDSDA | - A(DCB) |
| (14) | BITSTRING | 1 | DCTSDRW | REWIND status |
| | | | DCTSDSLE | - LEAVE |
| | | | DCTSDSRE | - REREAD |
| | | | * | - Reserved |
| (15) | BITSTRING | 1 | DCTSDTF | TYPEFLE status |
| | | | DCTSDSOP | - OUTPUT |
| | | | DCTSDSIP | - INPUT |
| | | | DCTSDSRB | - RDBACK |
| | | | * | - Reserved |
| (16) | BITSTRING | 1 | * | Reserved |
| (17) | BITSTRING | 1 | * | Reserved |
| (18) | BITSTRING | 1 | DCTSDSRF | record format |
| | | | DCTSDSUF | - undefined format |
| | | | DCTSDSFF | - fixed format |
| | | | DCTSDSVF | - variable format |
| | | | * | - Reserved (refer to IHADCB) |
| | | | DCTSDSBR | - blocked records |
| | | | * | - Reserved (refer to IHADCB) |
| | | | DCTSDSCA | - ASA control char |
| | | | DCTSDSCM | - machine control char |
| | | | * | - Reserved (refer to IHADCB) |
| (19) | BITSTRING | 1 | * | Reserved |
| (1A) | HALFWORD | 2 | DCTSDSBL | block length |
| (1C) | HALFWORD | 2 | DCTSDSRL | (maximum) record length |
| (1E) | HALFWORD | 2 | * | - Reserved |
| (20) | ADDRESS | 4 | DCTDIAA | Address of Shadow Buffer |
| (24) | HALFWORD | 2 | DCTDIAL | Length of Shadow Buffer |
| (26) | HALFWORD | 2 | * | Reserved |
| (28) | CHARACTER | 4 | * | DCB abend exit data |
| (28) | BITSTRING | 2 | DCTSDSCC | - system completion code held in the first 12 bits |
| (2A) | UNSIGNED | 1 | DCTSDRC | - return code completion code qualifier |
| (2B) | BITSTRING | 1 | DCTSDOM | - options mask |
| | | | * | - Reserved |
| | | | * | - Reserved |
| | | | * | - Reserved |
| | | | * | - Reserved |
| | | | DCTSDOMR | - OK to recover |
| | | | DCTSDOMI | - OK to ignore |
| | | | DCTSDOMD | - OK to delay |
| | | | * | - Reserved |
| (2C) | CHARACTER | 96 | DCTSDDCB | DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL,PL) |
| (8C) | CHARACTER | | * | |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|----------|----------------|-------------|
| 8 | CHARACTER | >TDQUEUE | TDQUEUE_PREFIX | |

DGB DBCTL-CICS global block

| |
|---|
| <p>CONTROL BLOCK NAME = DFHDGB (In DFHDBCOP, invoked via DFHDBMAC) (Invoked by DFHDL P DGB=DSECT) DESCRIPTIVE NAME = CICS DBCTL-CICS Global Block FUNCTION = Used to store connection/disconnection information regarding the CICS-DBCTL interface. LIFETIME = The DBCTL Global Block (DGB) is acquired when initialisation of the CICS-DBCTL interface is first attempted. It is used to store connection/disconnection information regarding the CICS-DBCTL interface. It is released at the end of the CICS session. LOCATION = CSA->OPFL->DLP->DGB NOTES : DEPENDENCIES = S/370 RESTRICTIONS = None MODULE TYPE = Control Block definition EXTERNAL REFERENCES = CSA, DLP, Control Transaction Area, DBCTL-XRF area DATA AREAS = Values from MVS and JES control blocks concerning DBCTL CONTROL BLOCKS = DBCTL exit addresses GLOBAL VARIABLES (Macro pass) = None</p> |
|---|

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | STRUCTURE | 244 | DFHDGB | Based DGB |
| (0) | CHARACTER | 8 | DGBDESC | Set to DFHDGB |
| (8) | ADDRESS | 4 | DGBCSA | Address of the CSA |
| (C) | ADDRESS | 4 | DGBDLP | Address of the DLP |
| (10) | ADDRESS | 4 | DGBCTA | Address of the Control Txn Area |
| (14) | ADDRESS | 4 | DGBDXBA | Address of the DBCTL-XRF area |
| (18) | ADDRESS | 4 | DGBSMTOK | Storage Manager Token |
| (1C) | ADDRESS | 4 | DGBCTOKN | Call Token - Returned on response to INIT from the Adapter |
| (20) | FULLWORD | 4 | DGBDSENO | Session Number of CICS-DBCTL |
| (24) | CHARACTER | 4 | DGBDSTATCS | Status Fields |
| (24) | CHARACTER | 1 | DGBDSTAT | Status of the CICS-DBCTL interface |
| (25) | UNSIGNED | 3 | DGBDSTCT | Count incremented by 1 when DGBDSTAT is updated or when the control exit is notified by DBCTL of a change in DBCTL's state |
| (28) | CHARACTER | 1 | DGBFLAG | Cleanup flag |
| | 1... .. | | DGBDFAIL | DBCTL or DRA has failed |
| | .1.. .. | | DGBATEN | Indicator for adapter enable 1 : Enabled 0 : Not enabled yet |
| | .1. | | DGBDXERR | Indicator for XRF proc's 0 : Enabled 1 : Disabled due to error |
| | ...1 | | DGBCABORT | CICS aborted the connection... .. Reason in DGBABORTRC |
| | 1... | | DGBMNPND1 | MN call 1 got back POINT_NOT_DEFINED |
| |1.. | | DGBMNPND2 | MN call 2 got back POINT_NOT_DEFINED |
| |11 | | * | Reserved |
| (29) | UNSIGNED | 3 | DGBDRMCT | Count of number of DFHRMCAL requests active in the ADAPTER/DRA |
| (2C) | FULLWORD | 4 | DGBPSBSU | Total number of successful PSB schedule requests |
| Connection information | | | | |
| (30) | CHARACTER | 2 | DGBSTSU | Startup Table Suffix |
| (32) | CHARACTER | 4 | DGBIDBID | DBCTL id Override (if any) |
| (36) | CHARACTER | 8 | DGBCAPLD | CICS APPLID |
| (3E) | CHARACTER | 1 | DGBABORTRC | Reason for connection abort |
| | 1... .. | | DGBNOPSK | Storage protect active but DRA does |
| not support storage protection | | | | |
| | .111 1111 | | * | Reserved |
| (3F) | CHARACTER | 1 | * | Reserved |
| (40) | ADDRESS | 4 | DGBINITT | The INIT Token contains the address of the DGB |
| (44) | CHARACTER | 4 | DGBIECB | the Initialisation ECB |
| Exit details Exit details - if the order of the exit fields is altered then DFHDBCOP and DFHDBDI will require alteration | | | | |
| (48) | CHARACTER | 8 | DGBSPXE | Exit name |
| (50) | ADDRESS | 4 | DGBSPXA | Address of the Suspend exit |
| (54) | CHARACTER | 8 | DGBREXE | Exit name |
| (5C) | ADDRESS | 4 | DGBREXA | Address of the Resume exit |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------------|
| (60) | CHARACTER | 8 | DGBCTXE | Exit name |
| (68) | ADDRESS | 4 | DGBCTXA | Address of the Control exit |
| (6C) | CHARACTER | 8 | DGBMOXE | Exit name |
| (74) | ADDRESS | 4 | DGBMOXA | Address of the Monitoring exit |
| (78) | CHARACTER | 8 | DGBTOXE | Exit name |
| (80) | ADDRESS | 4 | DGBTOXA | Address of the Token exit |
| (84) | CHARACTER | 8 | DGBSTXE | Exit name |
| (8C) | ADDRESS | 4 | DGBSTXA | Address of the Statistics exit |
| (90) | CHARACTER | 8 | DGBSSXE | Exit name |
| (98) | ADDRESS | 4 | DGBSSXA | Address of the Status exit |
| (9C) | CHARACTER | 8 | DGBATE | Exit name |
| (A4) | ADDRESS | 4 | DGBATA | Address of the ADAPTER-Transformer |

End of exit details

| | | | | |
|------|-----------|---|----------|--------------|
| (A8) | CHARACTER | 8 | DGBCTIME | Connect time |
|------|-----------|---|----------|--------------|

Connection information returned from DBCTL

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (B0) | CHARACTER | 4 | DGBDBCID | DBCTL ID |
| (B4) | CHARACTER | 8 | DGBJOBIN | DBCTL job name |
| (BC) | UNSIGNED | 2 | DGBASID | DBCTL ASID |
| (BE) | CHARACTER | 8 | DGBJOBI | DBCTL JES Job Id |
| (C6) | CHARACTER | 1 | DGBCRC | DBCTL command recognition character |
| (C7) | CHARACTER | 1 | DGBRGTY | DBCTL region type |
| (C8) | HALFWORD | 2 | DGBMITHD | Minimum number of threads |
| (CA) | HALFWORD | 2 | DGBMATHD | Maximum number of threads |
| (CC) | CHARACTER | 8 | DGBRSEN | DBCTL RSE Name |

Disconnection information

| | | | | |
|------|-----------|---|----------|--------------------|
| (D4) | CHARACTER | 1 | DGBDISTY | Disconnection type |
| (D5) | CHARACTER | 8 | DGBDTIME | Disconnect time |

Disconnection information returned from DBCTL These fields relate to the previous CICS-DBCTL session

| | | | | |
|------|-----------|---|------------|-----------------------------|
| (DD) | CHARACTER | 3 | * | Reserved |
| (E0) | FULLWORD | 4 | DGBNOMATHD | Max thread hits |
| (E4) | FULLWORD | 4 | DGBNOMITHD | Min thread hits |
| (E8) | CHARACTER | 4 | DGBELMAX | Elapsed time at Max Threads |
| (EC) | FULLWORD | 4 | DGBHIWAT | Hi-Water for no. of Threads |
| (F0) | ADDRESS | 4 | DGBALOAD | Load addr ADAPTER-XFORMER |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 52 | DFHDBGCTA | |

Control transaction information

| | | | | |
|------|-----------|----|-------------|-------------------------------------|
| (0) | ADDRESS | 4 | DGBCWEHD | Control trans. work elements header |
| (4) | CHARACTER | 1 | DGBCTL | Control transaction flag |
| | | | DGBCTLATT | Control transaction attached |
| | | | * | Reserved |
| (5) | CHARACTER | 3 | * | Reserved |
| (8) | ADDRESS | 4 | DGBCECB | Control transaction ECB |
| (C) | CHARACTER | 8 | DGBDTIM | Time DRA last abnormally terminated |
| (14) | CHARACTER | 16 | DGBCWEERR | storage for control exit error CWE |
| (14) | ADDRESS | 4 | DGBCWEERRA | work ptr used in Building CWEERR |
| (18) | CHARACTER | 12 | * | Reserved |
| (24) | CHARACTER | 16 | DGBCWETERM | storage for control exit term CWE |
| (24) | ADDRESS | 4 | DGBCWETERMA | |
| (28) | CHARACTER | 12 | * | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------|--|
| 1 | HEX | 00 | DGBDSSHUT | Interface shut |
| 1 | HEX | 01 | DGBDPHS1 | Connection phase 1 |
| 1 | HEX | 02 | DGBDPHS2 | Connection phase 2 |
| 1 | HEX | 04 | DGBDREDY | Interface ready |
| 1 | HEX | 08 | DGBDORDT | Orderly termination , i.e. phase 1 of termination |
| 1 | HEX | 10 | DGBDIMMT | Immediate termination, i.e. phase 2 of termination |
| 1 | HEX | 20 | DGBDDEAD | Interface dead, i.e. interface is unusable |

Possible values of DGBRGTY - DBCTL region types

| | | | | |
|---|-----|----|---------|----------------|
| 1 | HEX | 01 | DGBDBCX | DB/DC with XRF |
| 1 | HEX | 02 | DGBDBCO | DB/DC only |
| 1 | HEX | 04 | DGBDBCT | DBCTL |

Possible values of DGBDISTY

| | | | | |
|---|-----|----|----------|-------------------------------------|
| 1 | HEX | 01 | DGBORDDI | Orderly termination request input |
| 1 | HEX | 02 | DGBIMMDI | Immediate termination request input |

DHTX Document handler template exitpgm interface

DFHDHTX COPY

This copybook contains the interface definition for the user-replaceable program specified in an EXITPGM type of template.

The following input parameters are passed to the user program in a standard CICS commarea:

dhtx_length
 The halfword binary length of the entire parameter list.

dhtx_eyecatcher
 A 13-character eyecatcher, set to '>DFHDHTXPARMS'.

dhtx_version
 A one-byte character version number of the parameter list, currently set to '0'.

dhtx_buffer_ptr
 The address of a CICS-provided buffer in which the EXITPGM must return the data that is to become the template.

dhtx_buffer_len
 The fullword binary length of the buffer addressed by **dhtx_buffer_ptr**.

dhtx_template_name_ptr
 The address of the 48-character name of the template for which this EXITPGM is being executed.

dhtx_append_crlf
 A one-byte character field that indicates whether the APPENDCRLF option was specified for this template. It is set to '1' if the option was specified, and to '0' otherwise.

The following output parameters must be set by the EXITPGM:

dhtx_template_len
 The fullword binary length of the template being returned in the buffer addressed by **dhtx_buffer_ptr**. This value should be the size actually required for the template, even if it exceeds **dhtx_buffer_len** (although the data moved into the buffer must not exceed that length). If **dhtx_template_len** exceeds **dhtx_buffer_len**, the EXITPGM will be re-driven with a larger buffer.

dhtx_return_code
 A fullword binary return code that indicates whether the EXITPGM was successful. It should be one of:

0 Indicates successful completion. A valid template, or a template truncated to fit the supplied buffer, has been returned.

8 Indicates failure. No valid template has been returned.

dhtx_message_ptr
 Optionally, the address of a message that explains why the EXITPGM was unsuccessful. CICS writes this message to the CSDH transient data destination.

dhtx_message_len
 The fullword binary length of the message addressed by **dhtx_message_ptr**, if one is provided.

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------------------|---------------------------|
| (0) | STRUCTURE | 48 | DHTX_PLIST | Template EXITPGM plist |
| (0) | CHARACTER | 16 | DHTX_PREFIX | Parameter list prefix |
| (0) | HALFWORD | 2 | DHTX_LENGTH | Length of parameter list |
| (2) | CHARACTER | 13 | DHTX_EYECATCHER | >DFHDHTXPARMS eyecatcher |
| (F) | CHARACTER | 1 | DHTX_VERSION | Version number of plist |
| (10) | ADDRESS | 4 | DHTX_BUFFER_PTR | Template buffer address |
| (14) | FULLWORD | 4 | DHTX_BUFFER_LEN | Template buffer length |
| (18) | FULLWORD | 4 | DHTX_TEMPLATE_LEN | Actual length of template |
| (1C) | FULLWORD | 4 | DHTX_RETURN_CODE | Return code |
| (20) | ADDRESS | 4 | DHTX_TEMPLATE_NAME_PTR | Ptr to 48-char name |
| (24) | CHARACTER | 4 | DHTX_TEMPLATE_FLAGS | Template flags |
| (24) | CHARACTER | 1 | DHTX_APPEND_CRLF | '1' Append. '0' Don't. |
| (28) | ADDRESS | 4 | DHTX_MESSAGE_PTR | Message pointer |
| (2C) | FULLWORD | 4 | DHTX_MESSAGE_LEN | Message length |

DIB Data interchange block

MODULE NAME = DFHDIBDS
 DESCRIPTIVE NAME = CICS Data Interchange Block
 FUNCTION = Maintain the status of a data interchange session.
 The DIB is chained off the TCTTE. It is acquired by the first DIP request in a transaction, and is freed at transaction termination.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 REGISTER CONVENTIONS = Not applicable
 PATCH LABEL = None
 MODULE TYPE = MACRO DEFINING A DSECT
 MODULE SIZE = Not applicable
 ATTRIBUTES = Not applicable
 ENTRY POINT = Not applicable
 PURPOSE = Not applicable
 LINKAGE = Not applicable
 INPUT = Not applicable
 OUTPUT = Not applicable
 EXIT-NORMAL = Not applicable
 EXIT-ERROR = Not applicable
 EXTERNAL REFERENCES = None
 CONTROL BLOCKS = Defines DIB Control Block
 TABLES = None
 MACROS = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|--------------|---------------------------|
| (0) | | | DFHDIBDS | |
| (0) | HALFWORD | 2 | DIBSCFGS | STORAGE ACCOUNTING AREA |
| (2) | HALFWORD | 2 | DIBSCNTL | STORAGE LENGTH |
| (4) | HALFWORD | 2 | DIBTSLGN | LENGTH TO OUTPUT FOR TS |
| (6) | HALFWORD | 2 | DIBTSRES | TS RESERVED= ZERO |
| (8) | FULLWORD | 4 | DIBSENSE (0) | Sense code areas |
| (8) | HALFWORD | 2 | DIBSSI | SYSTEM SENSE AREA |
| (A) | HALFWORD | 2 | DIBUSI | USER SENSE AREA |
| (C) | FULLWORD | 4 | DIBDIRRD | ACTUAL RETURNED RECORD ID |

NOTE THAT THESE FLAGS ARE SET IN COMBINATION:
 DIBIFDSO + DIBIFDSS = 00 NOT ACTIVE NOT SUSPENDED
 = 10 ACTIVE NOT SUSPENDED
 = 11 ACTIVE BUT SUSPENDED
 (01 NEVER SET CODE RELIES ON THIS)

| | | | | |
|------|-----------|---|----------|-----------------------------------|
| (10) | BITSTRING | 1 | DIBIFSEL | SELECTION FLAGS |
| | 1... .. | | DIBIFDSO | "X'80" OUTBOARD SELECTED |
| | ..1. | | DIBIFDSS | "X'20" DSN SUSPENDED |
| | ...1 | | DIBIFDAO | "X'10" OUTBOARD ABORTED(NOT REQ) |
| | 1... | | DIBIFDSI | "X'08" INBOUND SELECTED |
| |1.. | | DIBIFDIN | "X'04" SOME INPUT DONE |
| |1. | | DIBIFDIS | "X'02" INPUT SUSPENDED |
| |1 | | DIBIFDAI | "X'01" INBOARD ABORTED(NOT REQ) |
| (11) | BITSTRING | 1 | DIBIFOSL | OLD SELECT |
| (12) | BITSTRING | 1 | DIBIFOSP | OLD PROFILE SAME FLAGS AS DIBIFL2 |
| (14) | HALFWORD | 2 | (0) | FORCE ALIGNMENT FOR ... |
| (14) | BITSTRING | 1 | DIBNICFN | CURRENT FUNCTION |
| (15) | BITSTRING | 1 | DIBNINRS | CURRENT NUMREC VALUE |

INPUT DESTINATION LATEST FMH (STATUS)
 THIS IS A COPY OF THE BEGIN FMH RECEIVED ON INPUT
 USE FMH DSECT TO OVERLAY FIELDS

| | | | | |
|------|-----------|---|----------|----------------------------|
| (16) | BITSTRING | 1 | DIBIFMLN | LENGTH OF FMH (TO DIBDNAM) |
| (17) | BITSTRING | 1 | DIBIFMTY | FMH TYPE(1,2,3 ETC) |
| (18) | BITSTRING | 1 | DIBIMSB | MEDIA SELECTION FIELD |

BIT 0 RESERVED
 BIT 1-3 FOLLOWING VALUES:
 000 CONSOLE
 010 CARD
 011 PRINT
 100 DISK
 110 PDS
 BIT 4-7 LOG SUBADDRESS

| | | | | |
|------|-----------|---|--------------|------------------------------|
| (19) | BITSTRING | 1 | DIBISRI (0) | BIT 0 SRI |
| (19) | BITSTRING | 1 | DIBIDSEL (0) | BIT 1 DEMAND SELECT |
| (19) | BITSTRING | 1 | DIBIDSP (0) | BITS 4-7 DATA STREAM PROFILE |
| (19) | BITSTRING | 1 | DIBIDDSP | DEMAND SEL/DS PROFILE/SRI |
| (1A) | BITSTRING | 1 | DIBIDSF | DESTINATION SELECTION FIELD |
| (1B) | BITSTRING | 1 | DIBIERCI | EXCHANGE RECORD LENGTH |
| (1C) | BITSTRING | 1 | DIBIRSV2 (2) | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (1E) | BITSTRING | 1 | DIBIDNL | LENGTH OF DSN |
| (1F) | CHARACTER | 8 | DIBIDNAM | MAXIMUM OF EIGHT CHARACTERS DSN NAME |
| (27) | BITSTRING | 1 | DIBISDNL | SAVED PREVIOUS LENGTH, DESTINATION, NAME |
| OUTPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH FIRST OUTPUT USE FMH DSECT TO OVERLAY FIELDS | | | | |
| (28) | BITSTRING | 1 | DIBFMHLN | LENGTH OF FMH (TO DIBDNAM) |
| (29) | BITSTRING | 1 | DIBFMHTY | FMH TYPE(1,2,3 ETC) |
| (2A) | BITSTRING | 1 | DIBMSB | MEDIA SELECTION FIELD |
| BIT 0 RESERVED | | | | |
| BIT 0-3 FOLLOWING VALUES: | | | | |
| 0000 CONSOLE | | | | |
| 0010 CARD | | | | |
| 0011 PRINT | | | | |
| 0100 DISK | | | | |
| 0101 EXTENDED DOCUMENT | | | | |
| 0110 PDS | | | | |
| 1000 WORD PROCESSING MEDIUM 1 | | | | |
| 1001 WORD PROCESSING MEDIUM 2 | | | | |
| 1010 WORD PROCESSING MEDIUM 3 | | | | |
| 1100 WORD PROCESSING MEDIUM 4 | | | | |
| 1101 NCI | | | | |
| BIT 4-7 LOG SUBADDRESS | | | | |
| (2B) | BITSTRING | 1 | DIBSRI (0) | BIT 0 SRI |
| (2B) | BITSTRING | 1 | DIBDESEL (0) | BIT 1 DEMAND SELECT |
| (2B) | BITSTRING | 1 | DIBDSP (0) | BITS 4-7 DATA STREAM PROFILE |
| VALUES OF THE DATA STREAM PROFILE | | | | |
| .... | .... |  | DIBDSPDE | "X'00" DEFAULT |
| .... | ...1 | | DIBDSPBA | "X'01" BASE |
| .... | ..11 | | DIBDSPJB | "X'03" JOB DSP |
| .... | .1.. | | DIBDSPRW | "X'04" WP RAW |
| .... | .11. | | DIBDSP11 | "X'06" OII LEVEL 1 |
| .... | .111 | | DIBDSP12 | "X'07" OII LEVEL 2 |
| .... | 1... | | DIBDSP13 | "X'08" OII LEVEL 3 |
| VALUES X'09' TO X'0F' RESERVED | | | | |
| (2B) | BITSTRING | 1 | DIBSDSP | DEMAND SEL/DS PROFILE/SRI |
| (2C) | BITSTRING | 1 | DIBDSF | DESTINATION SELECTION FIELD |
| (2D) | BITSTRING | 1 | DIBERCI | EXCHANGE RECORD LENGTH |
| (2E) | BITSTRING | 1 | DIBRSVD2 (2) | RESERVED |
| (30) | BITSTRING | 1 | DIBDNL | LENGTH OF DSN |
| (31) | CHARACTER | 8 | DIBDNAM | MAXIMUM OF EIGHT CHARACTERS DSN NAME |
| (39) | BITSTRING | 1 | DIBVNL | LENGTH OF VOLUME |
| (3A) | CHARACTER | 6 | DIBVNAM | MAXIMUM SIX CHARACTER VOLUME ID |
| (40) | BITSTRING | 1 | DIBKYL | SAVED KEY LENGTH |
| (41) | CHARACTER | 64 | DIBKYD | SAVED KEY FOR RETRANSMIT |
| (88) | DBL WORD | 8 | (0) | |

DLP DL/I general purpose macro

```

MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
FUNCTION =
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
PATCH LABEL = NONE
MODULE TYPE = EXECUTABLE

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|------------|-----|------------|---|
| (0) | | | DFHDLPDS | DL/I INTERFACE PARM DSECT |
| CICS - DL/I INTERFACE PARAMETERS | | | | |
| (0) | CHARACTER | 8 | DLPEYE | DLP Eyecatcher |
| (8) | FULLWORD | 4 | | Reserved |
| (C) | ADDRESS | 4 | DLPDLI | ADDR OF ENTRY TO DFHDLI |
| (10) | BITSTRING | 1 | DLPDLFLG | DLI support flags |
| | .1.. | | DLPDLRE | "X'40" Remote DLI is supported |
| | ...1 | | DLPXRF | "X'10" XRF takeover was performed |
| (11) | ADDRESS | 3 | | Reserved |
| (14) | ADDRESS | 4 | DLPDGB | Address of the DBCTL global block |
| (18) | ADDRESS | 4 | DLPDPEP | Address of DFHDLIDP (the DBCTL call processor) |
| (1C) | ADDRESS | 4 | DLPRPEP | Address of DFHDLIRP (the Remote call processor) |
| (20) | ADDRESS | 4 | | Reserved |
| (24) | ADDRESS | 4 | DLPEDPEP | Address of DFHEDP (the EXEC DLI program) |
| (28) | ADDRESS | 4 | DLPRPDIR | Address of the remote PDIR |
| (2C) | ADDRESS | 4 | | Reserved |
| (30) | BITSTRING | 1 | DLPFLG | Flag Byte |
| |1. | | DLPPSBCK | "X'02" User Security Checking Required CF DFHSIT PSBCHK=YES\|NO |
| (31) | ADDRESS | 3 | | Reserved |
| | ...11 .1.. | | DLPDFEND | "*" End of dlp |
| | 1... | | DLPDISPL | "8" DISPLACEMENT IN PDIR FROM COUNT FIELD TO START OF THE DIRECTORY |

DSB DBCTL scheduling block

CONTROL BLOCK NAME = DFHDSB
 (In DFHDBCOP, invoked via DFHDBMAC)
 (Invoked by DFHDL P DSB=DSECT)
 DESCRIPTIVE NAME = CICS DBCTL Scheduling Block
 FUNCTION =
 Used to store task-related information
 regarding the CICS-DBCTL interface.
 LIFETIME =
 The DBCTL Scheduling Block (DSB) is acquired when a task issues
 its first schedule request to DBCTL. It is cleared just before
 each subsequent schedule request from the same task is processed.
 It is released at task termination.
 LOCATION = PAPL token -> DSB
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition
 EXTERNAL REFERENCES =
 TCA, DGB, PCB list.
 CONTROL BLOCKS =
 DBCTL exit addresses
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|--------------|-----|----------------------|--|
| (0) | STRUCTURE | 656 | DFHDSB | |
| Fields common to all DSBs | | | | |
| (0) | CHARACTER | 8 | DSBDESC | Set to DFHDSB |
| (8) | ADDRESS | 4 | DSBTCA | Address of the TCA |
| (C) | ADDRESS | 4 | DSBDGB | Address of the DGB |
| (10) | ADDRESS | 4 | DSBTOK | Task Token |
| Contains address of DSB | | | | |
| (14) | ADDRESS | 4 | DSBTECB | Task ECB used by Suspend and |
| Resume exits | | | | |
| (18) | ADDRESS | 4 | DSBRESPW | Pointer to the response word - |
| This field is set by DFHDBAT | | | | |
| (1C) | ADDRESS | 4 | DSBSSX | pointer to the status exit extrn |
| (20) | CHARACTER | 1 | DSBR TYP | Request Type |
| I: Connection Request T: Disconnection Request P: PSB Schedule Request D: DL/I Request R: Resync S: CICS Shutdown | | | | |
| Fields relating to Schedule Requests These fields are relevant for the duration of a schedule Term cycle. | | | | |
| (21) | BITSTRING | 1 | DSBFLAGS DSBSCHED | Indicator for schedule 1 : DBCTL PSB scheduled successfully during task 0 : DBCTL PSB never schedule |
| | .1. . . . | | DSBIOREQ | Indicator for IOPCB 1 : IOPCB required 0 : IOPCB not required |
| | ..1. . . . | | DSBINRMC | This task in DFHRMCAL This bit is set and reset in a single request |
| | ...1 | | DSB_WAIT | Wait in IMS request ind. |
| | 1.. | | DSBTRLV2 | Trace Flag used by DBREX 1 : RMI lvl 2 trace active 0 : RMI lvl 2 trace inactive |
| |11. | | * | Reserved |
| |1 | | DSBPSK | DRA supports PSK |
| (22) | CHARACTER | 8 | DSBPSBNM | PSB name |
| (2A) | UNSIGNED | 1 | DSBWRTH | Deadlock worth |
| (2B) | CHARACTER | 1 | DSBLSFL | Long-Short flag |
| (2C) | ADDRESS | 4 | DSBPCBL | Address of PCB List |
| (2C) | FULLWORD | 4 | DSBTIMEO | Shutdown timeout value |
| (30) | ADDRESS | 4 | DSBDBPCB | Address of first DBPCB |
| (34) | FULLWORD | 4 | DSBMAXIO | Maximum IO size |
| (38) | FULLWORD | 4 | DSBMAXKE | Maximum key length |
| (3C) | ADDRESS | 4 | DSBADGMA | Addr getmn'd area |
| (40) | FULLWORD | 4 | DSBLATFM | Lgth area to free |
| (44) | CHARACTER | 1 | DSBPLTY | PSB language type |
| Fields relating to DL/I requests | | | | |
| (45) | CHARACTER | 1 | DSBALTY | Application language type |
| (46) | CHARACTER | 2 | * | Reserved |
| (48) | FULLWORD | 4 | DSBSEGL | Segment length |
| (4C) | ADDRESS | 4 | DSBSEGA | Segment address |
| Area to contain R1 parameter list to the Adapter | | | | |
| (50) | CHARACTER | 64 | DSBPARMS | Parameters to interface with the Adapter |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------------------|
| Monitoring and trace areas are placed at the end of the DSB so that the rest of the DSB can be traced by DFHDBREX without the need for multiple GTRACE requests (255 byte limit). Monitoring area used on schedule and term requests. | | | | |
| (90) | CHARACTER | 256 | DSBMONI | Monitoring info from DBCTL |
| Trace area used to build GTF trace entry output by DFHDBREX. | | | | |
| (190) | CHARACTER | 256 | DSBGTRACE | Trace area used by GTRACE |

R1 Parameter List for a Connection Request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|------------------------------------|
| (0) | STRUCTURE | 64 | DSBINIP | |
| (0) | ADDRESS | 4 | DSBINRTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBINTTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBINRESPA | Address of Adapter Response word |
| (C) | ADDRESS | 4 | DSBINDBID | Address of input DBCTL id(if any) |
| (10) | ADDRESS | 4 | DSBINAGNA | Address of CICS AGN - not used |
| (14) | ADDRESS | 4 | DSBINSTSUA | Address of Startup Table Suffix |
| (18) | ADDRESS | 4 | DSBINAPLID | Address of CICS APPLID |
| (1C) | ADDRESS | 4 | DSBINSUSXA | Address of Suspend Exit |
| (20) | ADDRESS | 4 | DSBINRESXA | Address of Resume Exit |
| (24) | ADDRESS | 4 | DSBINCTLXA | Address of Control Exit |
| (28) | ADDRESS | 4 | DSBININTKA | Address of Connect Token |
| (2C) | ADDRESS | 4 | DSBINMONXA | Address of Monitoring Exit |
| (30) | ADDRESS | 4 | DSBINTOKXA | Address of Token Exit |
| (34) | ADDRESS | 4 | DSBINSTAXA | Address of Statistics Exit |
| (38) | ADDRESS | 4 | DSBINSTSXA | Address of status exit |
| (3C) | ADDRESS | 4 | DSBINPCTOKN | Address of Call Token-Prev Session |

Response From a Connection Request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 16 | DSBINIR | |
| (0) | HALFWORD | 2 | DSBINRESPL | Length of the response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBINPRETC | Return code from the PABL |
| (8) | CHARACTER | 4 | DSBINDBCID | DBCTL ID |
| (C) | ADDRESS | 4 | DSBINCTOKN | Call Token |

R1 Parameter list for a Disconnection Request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (0) | STRUCTURE | 20 | DSBTERR | |
| (0) | ADDRESS | 4 | DSBTERTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBTETTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBTTERSPA | Address of Adapter response word |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | ADDRESS | 4 | DSBTETTYPA | Address of Disconnection Type Flag |

Response from a Disconnection Request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | 24 | DSBTERR | |
| (0) | HALFWORD | 2 | DSBTTERESPL | Length of the response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBTBPRETC | Return code from the PABL |
| (8) | FULLWORD | 4 | DSBTMATHD | Max thread hits |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------|
| (C) | FULLWORD | 4 | DSBTEMITHD | Min thread hits |
| (10) | CHARACTER | 4 | DSBTEELMAX | Elapsed time at max threads |
| (14) | FULLWORD | 4 | DSBTEHIWAT | Hi-Water for No. of threads |

R1 parameter list for PSB Schedule request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 36 | DSBPSBP | |
| (0) | ADDRESS | 4 | DSBPSRTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBPSSTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBPSRESPA | Address of Adapter Response Word |
| (C) | ADDRESS | 4 | DSBPSUSERA | Address of Userid field |
| (10) | ADDRESS | 4 | DSBPSMONIA | Address of Monitoring Area |
| (14) | ADDRESS | 4 | DSBPSALTYA | Address of Language Type |
| (18) | ADDRESS | 4 | DSBPSDEADA | Address of Deadlock Worth |
| (1C) | ADDRESS | 4 | DSBPSLSFLA | Address of LONG-SHORT Flag |
| (20) | ADDRESS | 4 | DSBPSPSBNA | Address of PSBNAME |

Response from a PSB Schedule request to the Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 24 | DSBPSBR | |
| (0) | HALFWORD | 2 | DSBPSRESPL | Length of the Response |
| (2) | CHARACTER | 1 | DSBPSPLTY | PSB Language Type |
| (3) | BITSTRING | 1 | DSBPSFLAGS | * |
| | | | | Reserved |
| | | | | DRA supports PSK |
| (4) | UNSIGNED | 4 | DSBPSPRETC | Return Code from the PAPL |
| (8) | ADDRESS | 4 | DSBPSPCBL | Address of PCB list |
| (C) | ADDRESS | 4 | DSBPSDBPCB | Address of first DBPCB |
| (10) | FULLWORD | 4 | DSBPSMAXIO | Maximum IO size |
| (14) | FULLWORD | 4 | DSBPSMAXKE | Maximum key length |

R1 Parameter list for DL/I request to Adapter

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 24 | DSBDLIP | |
| (0) | ADDRESS | 4 | DSBDLRTYPA | Address of the Request Type |
| (4) | ADDRESS | 4 | DSBDLTOKA | Address of the Task Token |
| (8) | ADDRESS | 4 | DSBDLRESPA | Address of Adapter Response Word |
| (C) | ADDRESS | 4 | * | Reserved |
| (10) | ADDRESS | 4 | DSBDLAPR1A | Address of Application Parameter List |
| (14) | ADDRESS | 4 | DSBDLALTYA | Address of Language Type |

Response from a DL/I request to the ADAPTER

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 12 | DSBDLIR | |
| (0) | HALFWORD | 2 | DSBDLRESPL | Length of the Response |
| (2) | CHARACTER | 1 | * | Reserved |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | UNSIGNED | 4 | DSBDLPRETC | Return Code from the PAPL |
| (8) | FULLWORD | 4 | DSBDLSEGL | Segment length |

Format of PAPLRETC response code from the DRA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------|
| (4) | STRUCTURE | 4 | DSBPRET | |
| (4) | BITSTRING | 1 | DSBPRET_FLAGS | Flag values |
| (5) | BITSTRING | 1 | DSBPRET_SYSTEM | System abend code |
| (6) | BITSTRING | 1 | DSBPRET_USER | User abend code |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|--------------|-------------|
| 1 | CHARACTER | O | DSBTERT_ORD | |
| 1 | CHARACTER | I | DSBTERT_IMM | |
| 1 | CHARACTER | A | DSBTERT_ABND | |

Possible values of DSBRT

| | | | | |
|---|-----------|---|-------------|--------------------|
| 1 | CHARACTER | I | DSBINIT_REQ | initialization DSB |
| 1 | CHARACTER | T | DSBTERM_REQ | termination DSB |
| 1 | CHARACTER | P | DSBPSB_REQ | schedule DSB |
| 1 | CHARACTER | D | DSBDLI_REQ | DLI req DSB |
| 1 | CHARACTER | R | DSBRES_REQ | resync DSB |
| 1 | CHARACTER | S | DSBSHU_REQ | shutdown DSB |

Possible values of DSBALTY and DSBPLTY

| | | | | |
|---|-----|----|---------|-----------|
| 1 | HEX | 01 | DSBLPLI | PL/I |
| 1 | HEX | 02 | DSBLCOB | COBOL |
| 1 | HEX | 03 | DSBLFOR | Fortran |
| 1 | HEX | 04 | DSBLASM | assembler |
| 1 | HEX | 08 | DSBLAIB | AIB |

Value of DSBWRTH

| | | | | |
|---|---------|----|--------------|--|
| 1 | DECIMAL | 87 | DSBWRTH_CICS | |
|---|---------|----|--------------|--|

Value of DSBSLFL

| | | | | |
|---|-----|----|--------------|-----------------------------|
| 1 | HEX | 80 | DSBSLFL_CICS | CICS tasks classed as short |
|---|-----|----|--------------|-----------------------------|

Possible values of DSBTETYP, i.e. the field that DSBTETYP points to.

| | | | | |
|---|-----------|---|----------------|--|
| 1 | CHARACTER | C | DSBTETYP_CHKPT | |
| 1 | CHARACTER | F | DSBTETYP_FAST | |
| 1 | CHARACTER | S | DSBTETYP_SLOW | |

Values of bit flags

| | | | | |
|---|-----|---|---------|--|
| 0 | BIT | 1 | DSB_ON | |
| 0 | BIT | 0 | DSB_OFF | |

Values of DFHDBAT'S Return codes in R15

| | | | | |
|---|---------|----|-----------------------|--------------------------|
| 4 | DECIMAL | 4 | DSBUNSUP | Call not understood |
| 4 | DECIMAL | 8 | DSBIFDUP | Redundant interface Call |
| 4 | DECIMAL | 12 | DSBINNLD | Connect load failure |
| 4 | DECIMAL | 16 | DSBTRPRE | Disconnect Preempted |
| 4 | DECIMAL | 24 | DSBADNRY | Adapter not ready |
| 4 | DECIMAL | 28 | DSBADDIS | Adapter is disabled |
| 4 | DECIMAL | 32 | DSBCANCD | Thread is cancelled |
| 4 | DECIMAL | 36 | DSBCADUP | Redundant Cancel Call |
| 1 | HEX | 80 | DSBPRET_ABEND_SNAP | abend + snap |
| 1 | HEX | 88 | DSBPRET_ABEND | abend |
| 1 | HEX | 84 | DSBPRET_ABEND_DRASNAP | abend + DRA snap |
| 1 | HEX | 40 | DSBPRET_STATUS | status code |
| 1 | HEX | 00 | DSBPRET_RETURN | return code |

DSG Dispatcher statistics

CONTROL BLOCK NAME = DFHDSGDS
 DESCRIPTIVE NAME = CICS Dispatcher Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains global statistics provided by the Dispatcher Domain
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Dispatcher to store statistics to be passed to the user in response to a request to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from dispatcher domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDSGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | | | DFHDSGDS | Dispatcher Domain DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | DSGLEN | Length of data area |
| | ..11 .111 | | DSGIDE | "0055" Dispatcher domain id mask |
| (2) | ADDRESS | 2 | DSGID | Dispatcher domain id |
| |1 | | DSGVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | DSGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | DSGICVT | Current ICV time |
| (C) | HALFWORD | 2 | DSGICVSD | Current ICVSD time |
| (E) | HALFWORD | 2 | DSGCNT | Current number of tasks |
| (10) | HALFWORD | 2 | DSGPNT | Peak number of tasks |
| (12) | CHARACTER | 6 | | Reserved |
| (18) | CHARACTER | 8 | DSGSTART | GMT STCK Sub-Disp start time |
| (20) | CHARACTER | 8 | DSGLSTRT | Local STCK Sub-Disp start time |
| (28) | CHARACTER | 8 | DSGEJST | Elapsed Job Step timing |
| (30) | CHARACTER | 8 | DSGSRBT | Accumulated SRB time |

The following fields only apply to OM (open mode) TCBs

| | | | | |
|------|-----------|----|----------|---|
| (38) | CHARACTER | 8 | DSGTOTWL | Total Wait Time at TCB limit |
| (40) | CHARACTER | 8 | DSGCRWT | Current waiting time |
| (48) | FULLWORD | 4 | DSGTOTNW | Total number of waits |
| (4C) | FULLWORD | 4 | DSGCURNW | Current number of tasks waiting for a TCB |
| (50) | FULLWORD | 4 | DSGPEANW | Peak number of tasks waiting for a TCB |
| (54) | FULLWORD | 4 | DSGMAXOP | Max number of open TCBs |
| (58) | FULLWORD | 4 | DSGCNUAT | Current OM TCBs attached |
| (5C) | FULLWORD | 4 | DSGPNUAT | Peak OM TCBs attached |
| (60) | FULLWORD | 4 | DSGCNUUS | Current OM TCBs in use |
| (64) | FULLWORD | 4 | DSGPNUUS | Peak OM TCBs used |
| (68) | FULLWORD | 4 | DSGNTCBL | Number of times at TCB limit |
| (6C) | FULLWORD | 4 | DSGICVRT | Current ICVR Time |
| (70) | HALFWORD | 2 | DSGPRIAG | Priority aging |
| (72) | CHARACTER | 20 | | Reserved |
| (86) | HALFWORD | 2 | DSGASIZE | Numb of DSGTCB dsects supplied |
| | 1... 1... | | DSGMEND | "" |
| | 1... 1... | | DSGMCLN | ""-DSGLEN" Length |

TCB statistics
 The stats for the Dispatcher TCBs are kept in an open ended array
 The TCB number to dispatcher mode map is as follows:
 TCB1 = Quasi Reentrant mode
 TCB2 = Resource owning mode
 TCB3 = Concurrent mode
 TCB4 = Secondary LU mode
 TCB5 = ONC/RPC mode
 TCB6 = File Owning mode
 TCB7 = Sockets Owning mode (SL)
 TCB8 = Sockets Owning mode (SO)
 TCB9 = J8 - Open mode
 TCB10 = L8 - Open mode
 TCB11 = S8 - Sockets Mode

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DSGTCTB | TCB Stats |
| (0) | CHARACTER | 2 | DSGTCTBNM | TCB mode name |
| (2) | HALFWORD | 2 | | Reserved |
| (4) | FULLWORD | 4 | DSGTCTBCA | Number of TCBs currently attached |
| (8) | FULLWORD | 4 | DSGTCTBPA | Peak number of TCBs attached |
| (C) | FULLWORD | 4 | DSGTSYSW | No partn exits |
| (10) | FULLWORD | 4 | DSGNTCBA | Number of TCB attaches |
| (14) | FULLWORD | 4 | DSGTCTBDU | Numb of TCB detaches because unclean |
| (18) | FULLWORD | 4 | DSGTCTBDS | Numb of TCB detaches because stolen (from us) |
| (1C) | FULLWORD | 4 | DSGTCTBDO | Number of TCB detaches other |
| (20) | FULLWORD | 4 | DSGTCTBST | Number of TCB steals |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | FULLWORD | 4 | | Reserved |
| (2C) | FULLWORD | 4 | | Reserved |

The following CL8 definitions are really "Store Clock" format

| | | | | |
|------|-----------|---|---------|----------------------------------|
| (30) | CHARACTER | 8 | DSGTWT | Cum real time CICS in OS wait |
| (38) | CHARACTER | 8 | DSGTD | Cum real time TCB disp by MVS |
| (40) | CHARACTER | 8 | DSGTCT | Cum CPU time for DS task |
| (48) | CHARACTER | 8 | DSGACT | Cum CPU time for TCB |
| (50) | CHARACTER | 8 | | Reserved |
| | .1.1 1... | | DSGEND | *** |
| | .1.1 1... | | DSGCLEN | **"-DSGTCTB" Length of TCB stats |

DSN File control dataset name

MACRO NAME = DFHDSND
 DESCRIPTIVE NAME = CICS/ESA File control DATA-SET NAME BLOCK
 and BASE CLUSTER block.

FUNCTION =
 Create or map an instance of the DATASET NAME block.
 This block is dependent from the File Control Table,
 and contains a dataset name (up to 44 characters long)
 or equivalently a /VSE file-ID.
 It is pointed to by any number of FCT file entries,
 for either or both the purposes:
 a) to carry a name for possible DYNAMIC ALLOCATION when the
 file is next opened. (The "optative" name.)
 b) to represent the BASE CLUSTER (in VSAM), DATA SET (BDAM),
 (or any other entity) that the file, being open,
 can update and that CICS needs to guard for backout
 integrity.

DATASET NAME BLOCK
 The File Control Data Set Name Block (DSNB) holds the name
 for dynamic allocation of a data set. Any number of files
 (represented by File Control Table Entries, FCTEs) may address
 a DSNB. Dynamic allocation takes place at the time a file is
 opened. At this time, if the DSNB represents a VSAM base cluster
 or a BDAM data set, further information describing the data set
 is stored in the Base Cluster Block that is part of the DSNB.

The following fields form part of the Product Sensitive
 Programming Interface :
 FCTDNAME
 FCTDNLEN
 FCTDNVAL bit setting in byte FCTDNFL1
 FCTBCFR, FCTBCLOG, FCTBCVAL, bit settings in byte FCTBCFL1
 FCTBCFRL

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|-----------------|---|
| (0) | | | DFHDSNDS | DUMMY SECTION START |
| (0) | CHARACTER | 8 | FCTDNRN | resource name(="DSN_BLK:") , |
| (8) | CHARACTER | 44 | FCTDNAME | dataset name , |
| (34) | ADDRESS | 4 | FCTDNNUM | DATASET NUMBER (CC KEY) , |
| (38) | ADDRESS | 4 | FCTDNBCN | DITTO OF CORR. BASE CLUSTER , |
| (3C) | HALFWORD | 2 | FCTDNUC | USE COUNT , |
| (3E) | ADDRESS | 1 | FCTDNLEN | EFFECTIVE LENGTH OF DSNAME , |
| (3F) | ADDRESS | 1 | FCTDNTYP | DSTYPE=ESDS\|KSDS\|RRDS\|PATH , |
| (40) | BITSTRING | 1 | FCTDNFL1 | FLAGS , |
| | 1... | | FCTDNVAL | "X'80" DSN VALIDATED IN VSAM CAT. , |
| | .1. | | FCTDNRLS | "X'40" Last open was in RLS mode , |
| (41) | BITSTRING | 3 | | Reserved , |
| (44) | FULLWORD | 4 | (0) FCTDNINC | ALIGNMENT FOR INNER BLOCK , "" START OF BASE CLUSTER BLOCK , |
| BASE CLUSTER BLOCK | | | | |
| | .1. .1.. | | DFHBCCDS | "" , |
| (44) | HALFWORD | 2 | FCTBCUC | Count of ACBs that are open for files in the cluster, or are in transition to or from that state. |
| (46) | HALFWORD | 2 | FCTBCUUC | Count of ACBs open for update |
| (48) | BITSTRING | 1 | FCTBCFL1 | VARIOUS FLAGS - |
| | 1... | | FCTBCSRP | "X'80" LOCALLY-SHARED RESOURCES APPLY |
| | .1. | | FCTBCKVL | "X'40" ATTRIBUTES ..KYL & ..RKP ARE VALID |
| | .1. 1.. | | FCTBCRCV | "FCTBCFL1" RECOVERY ATTRIBUTES OF BASE CLUSTER |
| | .1. | | FCTBCFR | "X'20" FORWARD RECOVERY |
| | ...1 | | FCTBCLOG | "X'10" LOGGING |
| | 1.. | | FCTBCVAL | "X'08" VALID FLAG FOR RECOVERY ATTRIBUTES |
| |1.. | | FCTBCMIS | "X'04" Recov Attrs Mismatch Flag |
| | .1. 1.. | | FCTBCSHP | "FCTBCFL1" SHARE OPTIONS INDICATOR |
| |11 | | FCTBSH4 | "X'03" SHARE OPTIONS 4 |
| |1 | | FCTBSH34 | "X'02" SHARE OPTIONS 3 OR 4 |
| |1 | | FCTBSH24 | "X'01" SHARE OPTIONS 2 OR 4 |
| (49) | ADDRESS | 1 | FCTBCFRL | FRLOG ID FOR FORWARD RECOVERY |
| (4A) | ADDRESS | 1 | FCTBCAS | AVAILABILITY STATE |
| | .1. | | FCTBCUNA | "X'20" unavailability |
| (4B) | ADDRESS | 1 | FCTBCKYL | Length of key |
| (4C) | ADDRESS | 2 | FCTBCRKP | Relative key position |
| (50) | FULLWORD | 4 | FCTBCIS | Base cluster Control Interval Size. |
| (54) | ADDRESS | 4 | FCTBCVSC | Anchor for chain of VSWAs executing requests against this base. |
| (58) | FULLWORD | 4 | FCTBCSRB | Relative byte address for ESDS |
| (5C) | HALFWORD | 2 | FCTBCPUC | No. of open ACBs with D\$Name sharing |
| (5E) | HALFWORD | 2 | FCTBCRUC | Count of ACBs that are open against this recoverable ESDS base. |
| (60) | SIGNED | 1 | FCTBCLSR | LSR pool identifier |
| (61) | BITSTRING | 1 | FCTBCFIC | Fuzzy Image Copy flags |
| | 1... | | FCTBCFUZ | "X'80" Fuzzy backup enabled |
| | .1. | | FCTBCVFS | "X'40" Valid fuzzy state |
| (62) | HALFWORD | 2 | FCTBCFUC | Fuzzy File update count |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|--|
| (64) | ADDRESS | 4 | FCTBCACB | Address of ACB for base cluster. Allocated at the time of first PUT ADD or MASS INSERT against the path. |
| (68) | ADDRESS | 4 | (2) | Add/Delete counts |
| (70) | ADDRESS | 4 | FCTBC_FLLB_CHAIN | Start of FLLB chain |
| (74) | BITSTRING | 1 | FCTBC_RLS_INDS | Data table and RLS flags |
| | .1.. | | FCTBC_LOST_LOCKS | "X'40" Data set in lost locks state |
| (75) | BITSTRING | 1 | | Data table ECB |
| (76) | BITSTRING | 1 | | Data table loaded ECB |
| (77) | BITSTRING | 1 | | Reserved |
| (78) | CHARACTER | 8 | | Table name |
| (80) | ADDRESS | 4 | FCTBCDTK | Table token |
| (84) | ADDRESS | 4 | | Open FCTE chain |
| (88) | FULLWORD | 4 | FCTBCTKN | FR Log Tkn from CICS Logger |
| (8C) | BITSTRING | 1 | FCTBCFL2 | Recovery Attribute Flags |
| | 1... | | FCTBCCAT | "X'80" Attrs originate from catalog |
| | .1.. | | FCTBCRLS | "X'40" Attrs set on RLS file open |
| | .1. | | FCTBCRA | "X'20" BCB has RLS ACBs open |
| | ...1 | | FCTBCNRA | "X'10" BCB has non-RLS ACBs open |
| (8D) | CHARACTER | 26 | FCTBCCRL | FR Logstream Name from Catalog |
| (A7) | CHARACTER | 1 | FCTBC_QSTATE | RLS quiesce progress state for QUICLOSE, QUICOPY or QUIBWO |
| (A8) | FULLWORD | 4 | FCTBC_0890_COUNT | Requests awaited for 08-90 |
| (AC) | CHARACTER | 8 | FCTBC_QTOKEN | RLS quiesce token, returned to VSAM when QUICMP issued |
| (B4) | ADDRESS | 4 | FCTBC_CONN_CHAIN | Chain of connected FCTEs |
| (B8) | ADDRESS | 4 | FCTBC_OWNING_FRAB | Holder of ESDS write lock |
| (BC) | FULLWORD | 4 | FCTBC_SAFE_RBA | Highest safe RBA for update |
| (C0) | FULLWORD | 4 | FCTBC_QCOUNT | Number of UOWs to reach syncpoint before QUICMP can be issued for QUICOPY or QUIBWO |
| (C4) | CHARACTER | 8 | FCTBC_BWO_STAMP | OPEN TIMESTAMP FOR BWO |
| (CC) | ADDRESS | 4 | DFHBCEND (0) | Align, to round up gross length |
| | 1... 1... | | DFHBCLEN | "DFHBCEND-DFHBCDDS" , |

Constants for FCTBC_QSTATE. This tracks the progress of a VSAM RLS QUICLOSE, QUICOPY or QUIBWO quiesce request.

| | | |
|------------|-----------------------------------|-----|
| .... .... | FCTBC_QSTATE_ NORMAL | "0" |
|1 | FCTBC_QSTATE_ QUIESCING | "1" |
|1. | FCTBC_QSTATE_ QUIESCE_ CANCELLING | "2" |
|11 | FCTBC_QSTATE_ COPYING | "3" |
|1.. | FCTBC_QSTATE_ COPY_ CANCELLING | "4" |
|1.1 | FCTBC_QSTATE_ COPY_ POLICING | "5" |
|11. | FCTBC_QSTATE_ BWOING | "6" |
|111 | FCTBC_QSTATE_ BWO_ CANCELLING | "7" |

DUA Dump domain control blocks

CONTROL BLOCK NAME = DUA
 DESCRIPTIVE NAME = CICS Dump Domain - Common structures
 and constants
 FUNCTION = Contains the structures for :-
 DUA - DU anchor block
 DTB - Dump table block header
 BTB - Browse table header
 DTE - Dump table element
 BTE - Browse table element
 CC_DU_STATE - Dump catalog record
 XFINTER - Interface block
 OPEN_BLOCK - Dump dataset open block
 ECB - Dump dataset ECB block
 WL - Dump dataset remote parameter list
 DUA - DU Anchor block

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---|
| (0) | STRUCTURE | 370 | DUA | |
| (0) | CHARACTER | 16 | DUA_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | DUA_LENGTH | Length of block |
| (2) | CHARACTER | 1 | DUA_ARROW | '>' |
| (3) | CHARACTER | 3 | DUA_DFH | 'DFH' |
| (6) | CHARACTER | 2 | DUA_DOMID | 'DU' |
| (8) | CHARACTER | 8 | DUA_BLOCK_NAME | 'ANCHOR' |
| (10) | CHARACTER | 8 | DUA_APPLID | CICS system identifier |
| (18) | CHARACTER | 8 | DUA_SYSTEM_DUMPCODE | |
| | | | | Dump code |
| (20) | FULLWORD | 4 | DUA_SYS_DUMPS_TAKEN | |
| | | | | Global system dumps taken |
| (24) | FULLWORD | 4 | DUA_SYS_DUMPS_SUPPRESSED | |
| | | | | Global system dumps supp'sd |
| (28) | FULLWORD | 4 | DUA_TRAN_DUMPS_TAKEN | |
| | | | | Global tran dumps taken |
| (2C) | FULLWORD | 4 | DUA_TRAN_DUMPS_SUPPRESSED | |
| | | | | Global tran dumps supp'sd |
| (30) | CHARACTER | 8 | DUA_LAST_RESET_TIME | |
| | | | | Last stats reset time |
| (38) | UNSIGNED | 4 | DUA_MESSAGE_LEN | Message length |
| (3C) | ADDRESS | 4 | DUA_MESSAGE_PTR | Message address |
| (40) | UNSIGNED | 4 | DUA_TITLE_LEN | Title length |
| (44) | ADDRESS | 4 | DUA_TITLE_PTR | Title address |
| (48) | UNSIGNED | 4 | DUA_CALLER_LEN | Caller length |
| (4C) | ADDRESS | 4 | DUA_CALLER_PTR | Caller address |
| (50) | UNSIGNED | 4 | DUA_SSS_LEN | Short symptom string len |
| (54) | ADDRESS | 4 | DUA_SSS_PTR | Short symptom string addr |
| (58) | BITSTRING | 4 | * | Reserved |
| (5C) | FULLWORD | 4 | DUA_CSVDYNEX_RC | CSVDYNEX return code |
| (60) | FULLWORD | 4 | DUA_CSVDYNEX_REASON | |
| | | | | CSVDYNEX reason |
| (64) | CHARACTER | 80 | * | Reserved |
| (B4) | BITSTRING | 1 | DUA_FLAGS | Reserved |
| | 1... .. | | DUA_SDUMP_IN_PROGRESS | |
| | | | | SDUMP taking place |
| | .1.. .. | | DUA_TERMINATING | DU is terminating |
| | ..1. | | DUA_COLD_START | START=COLD in SIT |
| | ...1 | | DUA_REMOTE_DUMPS | Remote dumps available |
| | 1... | | DUA_DUMP_TABLE_INIT | |
| | | | | Is DU Table ready? |
| (B5) | CHARACTER | 3 | * | |
| (B8) | CHARACTER | 39 | DUA_XD_AREA | Tran dump fields |
| (B8) | ADDRESS | 4 | DUIO_ENTRY_POINT | Addr. DUIO routine |
| (BC) | ADDRESS | 4 | DATASET_LOCK_TOKEN | |
| | | | | XD dataset lock |
| (C0) | ADDRESS | 4 | OPENBLOK_PTR | -> XD dataset file cont.blk |
| (C4) | ADDRESS | 4 | DCB_PTR | -> XD dataset DCB |
| (C8) | ADDRESS | 4 | BUFFER_PTR | -> XD dataset buffer |
| (CC) | ADDRESS | 4 | CUR_RECORD_PTR | -> Current record in buffer |
| (D0) | ADDRESS | 4 | SM_ISOLATION_TOKEN | |
| | | | | Isolation token required on SWITCH_SUBSPACE calls |
| (D4) | FULLWORD | 4 | DDS_BUFFER_LEN | Current buffer size |
| (D8) | UNSIGNED | 4 | XD_ECB_ERROR | No XD dataset ECB errors |
| (DC) | BITSTRING | 1 | DUSU_REASON_FLAGS | Work flags |
| | 1... .. | | X_OPEN_ERROR | Error found when attempting to open dump dataset - XDUOUT exit active |
| | .1.. | | X_PARTIAL | EOV on dump dataset and switching not active - XDUOUT exit active |
| | ..1. | | SU_DCB_EROR | DUSU error |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|----------------------|--|
| | ...1 | | X_NOT_OPEN | Dataset not open |
| | 1... | | XD_MVCL_ERR | Set if we go into DUXWREC too often on the MVCL command in DFHDUXW |
| |111 | | * | Reserved |
| (DD) | BITSTRING | 1 | XD_FLAGS | Tran dump flags |
| | 1... | | SWITCH_IN_PROG | Autoswitch in progress |
| | .1. | | OPEN_STATUS | XD dataset status |
| | .1. | | DUXD_ACTIVE | Transaction dump active |
| | ...1 | | XDUCLSE_ACTIVE | XD close exit active |
| | 1... | | XDUOUT_ACTIVE | XD buffer write exit |
| |1.. | | XDUREQ_ACTIVE | Dump request exit active |
| |1. | | XDUREQC_ACTIVE | Dump request close exit active |
| |1 | | CLOSE_MSG | Used to prevent CLOSE msg from being issued more than once for a dump dataset. Set on - when dataset first closed. Set off when dataset opened |
| (DE) | UNSIGNED | 1 | DUXWREC_COUNT | Count of failures of MVCL for any 1 subfunction |
| (DF) | CHARACTER | 1 | * | |
| (E0) | CHARACTER | 40 | DUCAT | Dump catalog record |
| Used for constructing dump_str in form run_no/dump_no | | | | |
| (108) | FULLWORD | 4 | DUA_DUMP_NO | Dump number |
| (10C) | CHARACTER | 9 | DUA_DUMP_STR | Run/dump string |
| Pointers for System Dump Table and Transaction Dump Table | | | | |
| (115) | CHARACTER | 3 | * | |
| (118) | ADDRESS | 4 | DUA_SDTBLOCKHEAD | -> SDT block header |
| (11C) | ADDRESS | 4 | DUA_TDTBLOCKHEAD | -> TDT block header |
| (120) | ADDRESS | 4 | DUA_SDTFREEHEAD | -> SDT free chain head |
| (124) | ADDRESS | 4 | DUA_TDTFREEHEAD | -> TDT free chain head |
| (128) | CHARACTER | 8 | DUA_SDTHEAD | |
| (128) | ADDRESS | 4 | DUA_SDTFIRST | -> First SDT element |
| (12C) | ADDRESS | 4 | DUA_SDTLAST | -> Last SDT element |
| (130) | CHARACTER | 8 | DUA_TDTHEAD | |
| (130) | ADDRESS | 4 | DUA_TDTFIRST | -> First TDT element |
| (134) | ADDRESS | 4 | DUA_TDTLAST | -> Last TDT element |
| Pointers for Browse Token Table (for browsing dump tables) | | | | |
| (138) | ADDRESS | 4 | DUA_BTTBLOCKHEAD | -> Browse table block header |
| (13C) | ADDRESS | 4 | DUA_BTTFREEHEAD | -> BTT free chain head |
| (140) | CHARACTER | 8 | DUA_BTTHEAD | |
| (140) | ADDRESS | 4 | DUA_BTTFIRST | -> First BTT element |
| (144) | ADDRESS | 4 | DUA_BTTLAST | -> Last BTT element |
| Pointer for dump statistics buffer | | | | |
| (148) | ADDRESS | 4 | DUA_STATS_BUFFER_PTR | -> Dump statistics buffer |
| Lock tokens | | | | |
| (14C) | ADDRESS | 4 | DUA_SDMLOCK_TOKEN | System dump LMLM lock token |
| (150) | CHARACTER | 8 | * | Reserved |
| (158) | ADDRESS | 4 | DUA_TABLOCK_TOKEN | Dump table LMLM lock token |
| (15C) | ADDRESS | 4 | DUA_FTLOCK_TOKEN | FT table LMLM lock token |
| Pointers for Feature Table | | | | |
| (160) | ADDRESS | 4 | DUA_FTBLOCKHEAD | -> FT block header |
| (164) | ADDRESS | 4 | DUA_FTFREEHEAD | -> FT free chain hd |
| (168) | CHARACTER | 8 | DUA_FTHEAD | |
| (168) | ADDRESS | 4 | DUA_FTFIRST | -> First FT element |
| (16C) | ADDRESS | 4 | DUA_FTLAST | -> Last FT element |
| Feature count | | | | |
| (170) | UNSIGNED | 2 | DUA_FT_COUNT | Number of features |
| (172) | CHARACTER | | * | |

DTB - Block header for System Dump Table & Transaction Dump Table

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|--------------------------|
| (0) | STRUCTURE | 20 | DTB | |
| (0) | CHARACTER | 20 | DTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | DTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | DTB_ARROW | '>' |
| (3) | CHARACTER | 3 | DTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | DTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | DTB_BLOCK_NAME | 'STDBLOCK' or 'TDTBLOCK' |
| (10) | ADDRESS | 4 | DTB_NEXT | -> Next Dump Table Block |
| (14) | CHARACTER | | * | |

FTB - Block header for Feature table

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|------------------|
| (0) | STRUCTURE | 20 | FTB | |
| (0) | CHARACTER | 20 | FTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | FTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | FTB_ARROW | '>' |
| (3) | CHARACTER | 3 | FTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | FTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | FTB_BLOCK_NAME | 'FTBLOCK' |
| (10) | ADDRESS | 4 | FTB_NEXT | -> Next FT table |
| (14) | CHARACTER | | * | block |

BTB - Block header for Dump Table Browse Token Table

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|----------------------------|
| (0) | STRUCTURE | 20 | BTB | |
| (0) | CHARACTER | 20 | BTB_PREFIX | Standard prefix |
| (0) | HALFWORD | 2 | BTB_LENGTH | Length of block |
| (2) | CHARACTER | 1 | BTB_ARROW | '>' |
| (3) | CHARACTER | 3 | BTB_DFH | 'DFH' |
| (6) | CHARACTER | 2 | BTB_DOMID | 'DU' |
| (8) | CHARACTER | 8 | BTB_BLOCK_NAME | 'BTBLOCK' |
| (10) | ADDRESS | 4 | BTB_NEXT | -> Next Browse Table Block |
| (14) | CHARACTER | | * | |

DTE - Dump Table element. Used for System or Transaction Dump Table.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------------|--|
| (0) | STRUCTURE | 48 | DTE | |
| (0) | ADDRESS | 4 | DTE_NEXT | -> Next DTE |
| (4) | ADDRESS | 4 | DTE_PREV | -> Previous DTE |
| (8) | CHARACTER | 8 | DTE_DUMPSCOPE | Tran dump code bytes 1-4 or system dump code bytes 1-8 |
| (10) | UNSIGNED | 1 | DTE_TRANSACTION_DUMP | Scope of the dump. RELATED or LOCAL |
| (11) | UNSIGNED | 1 | DTE_SYSTEM_DUMP | Tran dump reqd |
| (12) | UNSIGNED | 1 | DTE_TERMINATE_CICS | System dump reqd |
| (13) | UNSIGNED | 1 | DTE_MAXIMUM_DUMPS | Terminate CICS reqd |
| (14) | FULLWORD | 4 | DTE_COUNT | Only take this number |
| (18) | FULLWORD | 4 | DTE_TRAN_DUMPS_TAKEN | Number of dump calls |
| (1C) | FULLWORD | 4 | DTE_TRAN_DUMPS_SUPPRESSED | Number of tran dumps taken |
| (20) | FULLWORD | 4 | DTE_SYS_DUMPS_TAKEN | Number of tran dumps suppressed |
| (24) | FULLWORD | 4 | DTE_SYS_DUMPS_SUPPRESSED | Number of system dumps taken |
| (28) | FULLWORD | 4 | DTE_DAELOPT | Number of system dumps suppressed |
| (2C) | UNSIGNED | 1 | DTE_DAELOPT | PASS SYMPTOM |

RECORD ONTO DFHDUSVC

| | | | | |
|------|-----------|---|---|--|
| (2D) | CHARACTER | 3 | * | |
|------|-----------|---|---|--|

FTE - Feature table element.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|-----------------|
| (0) | STRUCTURE | 124 | FTE | |
| (0) | ADDRESS | 4 | FTE_NEXT | -> Next FTE |
| (4) | ADDRESS | 4 | FTE_PREV | -> Previous FTE |
| (8) | CHARACTER | 8 | FTE_FEATURE_TOKEN | Register? |
| (10) | CHARACTER | 2 | FTE_STATUS | Register? |
| (12) | CHARACTER | 30 | FTE_COMPANY_NAME | |
| (30) | CHARACTER | 30 | FTE_FEATURE_NAME | |
| (4E) | CHARACTER | 10 | FTE_FEATURE_LEVEL | |
| (58) | CHARACTER | 8 | FTE_DUMP_FORMATTING_ROUTINE | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|-------------|
| (60) | CHARACTER | 8 | FTE_TRACE_FORMATTING_ROUTINE | |
| (68) | CHARACTER | 9 | FTE_TRACE_ABBREVIATED_NAME | |
| (71) | CHARACTER | 1 | * | |
| (72) | UNSIGNED | 2 | FTE_COUNT | |
| (74) | CHARACTER | 8 | FTE_FEATURE_TRACE_TOKEN | |
| (7C) | CHARACTER | | * | |

BTE - Browse Table element for Browse Token Table.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|--|
| (0) | STRUCTURE | 32 | BTE | |
| (0) | ADDRESS | 4 | BTE_NEXT | -> Next DTE |
| (4) | ADDRESS | 4 | BTE_PREV | -> Previous DTE |
| (8) | ADDRESS | 4 | BTE_TOKEN | -> BTE_DUMP CODE |
| (C) | CHARACTER | 8 | BTE_DUMP CODE | Tran dump code bytes 1-4 or system dump code bytes 1-8 |
| (14) | FULLWORD | 4 | * | Reserved |
| (18) | FULLWORD | 4 | * | Reserved |
| (1C) | FULLWORD | 4 | * | Reserved |
| (20) | CHARACTER | | * | |

Definition of catalog record for dump

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------------------|
| (0) | STRUCTURE | 40 | CC_DU_STATE | |
| (0) | FULLWORD | 4 | DUA_RUN_NO | Dump ID |
| (4) | CHARACTER | 8 | CURRENT_DDS | Current tran dumpds |
| (4) | CHARACTER | 6 | * | 'DFHDMP' |
| (A) | CHARACTER | 1 | DDS_SUFFIX | 'A' or 'B' |
| (B) | CHARACTER | 1 | * | ' ' |
| (C) | BITSTRING | 1 | ST_FLAGS | Status flags |
| | 1... .. | | AUTOSWITCH | Autoswitch active |
| | .1.. .. | | GL_SYS_SUP | Global system dump suppression |
| | ..1. | | DUA_DAE_DEFAULT | 1=DAE |
| | ...1 1111 | | * | Reserved |
| (D) | BITSTRING | 1 | INITIAL_DDS | Initial dumpds flag |
| | 1... .. | | DFHDMPA_INITIAL | DFHDMPA selected |
| | .1.. .. | | DFHDMPB_INITIAL | DFHDMPB selected |
| | ..1. | | AUTO_INITIAL | Either selected |
| | ...1 1111 | | * | Reserved |
| (E) | HALFWORD | 2 | DUA_RETRY_TIME | SDUMP retry |

Default size and type for Transaction Dump trace

| | | | | |
|------|----------|---|---------------------|--------|
| (10) | FULLWORD | 4 | DUA_DUMP_TRACE_SIZE | Length |
|------|----------|---|---------------------|--------|

of dump trace requested via SIT

| | | | | |
|------|-----------|---|---------------------|------------------|
| (14) | BITSTRING | 1 | DUA_DUMP_TRACE_FLAG | |
| | 1... .. | | DUA_DUMP_TRACE_TYPE | 1 = ALL 0 = TRAN |
| | .111 1111 | | * | |
| (15) | CHARACTER | 3 | * | Reserved |

Defaults for dump table

| | | | | |
|------|-----------|---|---------------------|----------|
| (18) | FULLWORD | 4 | DUA_TRDUMAX_DEFAULT | |
| (1C) | FULLWORD | 4 | DUA_SYDUMAX_DEFAULT | |
| (20) | CHARACTER | 8 | * | Reserved |

Interface block for the formatting routines of transaction dump
The storage for this area is allocated from DUXD dynamic storage and is therefore only available during execution of transaction dump.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-----------------------|
| (0) | STRUCTURE | 140 | XFINTER | |
| (0) | ADDRESS | 4 | CSA_PTR | CSA address |
| (4) | ADDRESS | 4 | TCA_PTR | TCA address |
| (8) | ADDRESS | 4 | DUDD_PLIST | DUDU plist address |
| (C) | CHARACTER | 64 | REGSAVE | Saved registers |
| (4C) | CHARACTER | 16 | PSWSAVE | Saved associated PSW |
| (4C) | CHARACTER | 4 | * | |
| (50) | CHARACTER | 4 | PSWSAVE2 | Saved PSW address@P4A |
| (54) | CHARACTER | 8 | * | |
| (5C) | BITSTRING | 1 | ABEND_FLAGS | Abend flags #1 |
| | 1... .. | | ASRA | 'ASRA' abend |
| | .1.. .. | | ASRB | 'ASRB' abend |
| | ..1. | | AICA | 'AICA' abend |
| | ...1 | | ASRD | 'ASRD' abend |
| | 1... | | ASRE | 'ASRE' abend |
| |111 | | * | Reserved |
| (5D) | BITSTRING | 1 | * | |
| | 1... .. | | PROG_CHK | Premature termination |
| | .1. | | REMOTE_ABEND | DPL remote abend |
| | ..1. | | SUBSPACE_ACT | subspace or base?@L4A |
| | ...1 1111 | | * | Reserved |
| (5E) | CHARACTER | 2 | * | Alignment |

The following fields are used by DFHXRDXF

| | | | | |
|------|-----------|---|-------------|--|
| (60) | ADDRESS | 4 | XRF_DUXW | Addr. DUXW plist |
| (64) | ADDRESS | 4 | XRF_PTR | Parameter address |
| (68) | CHARACTER | 4 | ABEND_SYSID | SYSID from which the remote DPL abend was received |

TRACE TABLE VALUES USED IN DFHTRXDF

| | | | | |
|------|-----------|---|--------------|--------------------|
| (6C) | ADDRESS | 4 | COPY_TAB_PTR | ADDR OF COPY TABLE |
| (70) | FULLWORD | 4 | COPY_TAB_LEN | ACTUAL LENGTH |
| (74) | UNSIGNED | 1 | TRACE_FLAGS | |
| | 1... .. | | NEW_TAB_WRAP | WRAPPED YET FLAG |
| | .1.. .. | | ANY_RELEVANT | ANY RELEVANT YET |
| | ..11 1111 | | * | |
| (75) | CHARACTER | 3 | * | |

USED FOR THE MAPPING OF THE ENTRIES FROM ORIGINAL TABLE

| | | | | |
|------|-----------|---|--------------|------------------------------|
| (78) | ADDRESS | 4 | NEW_TAB_PTR | PTR TO CURRENT BLOCK IN NEW |
| (7C) | ADDRESS | 4 | NEW_TAB_BASE | PTR TO BASE OF NEW TABLE |
| (80) | FULLWORD | 4 | NEW_TAB_SIZE | ACTUAL LEN NEW TAB ROUNDED |
| (84) | ADDRESS | 4 | NEW_END_PTR | PTR TO FIRST BYTE PAST TABLE |
| (88) | CHARACTER | 4 | * | reserved |

The following block contains the data areas which are associated with the dump dataset DCB. It is allocated when the dataset is opened, and freed when either an explicit close is issued or the end of the current dataset is reached, and autoswitching is not enabled. The address of this block is in the dump domain anchor block.

The elements which are contained in this block are as follows:-

- ECB to be used with all I/O
- DCB for the dump dataset
- Write list expansion used with all MVS macros against the dataset.
- I/O buffer

THE BLOCK RESIDES BELOW THE 16M LINE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------|-----------------------------|
| (0) | STRUCTURE | 40 | OPEN_BLOCK | |
| (0) | UNSIGNED | 2 | LEN | Total length of block |
| (2) | CHARACTER | 6 | OB_CON1 | '>DFHDU' |
| (8) | CHARACTER | 8 | OB_CON2 | 'OPENBLOK' |
| (10) | ADDRESS | 4 | POINT_PTR | Used with NOTE/POINT |
| (14) | ADDRESS | 4 | DSET_TRLR_PTR | Addr. dataset trailer recd. |
| (18) | ADDRESS | 4 | ECB_PTR | -> ECB |
| (1C) | ADDRESS | 4 | OB_DCB_PTR | -> DCB |
| (20) | ADDRESS | 4 | WL_PTR | -> Remote parm list |
| (24) | ADDRESS | 4 | BSAM_RSA_PTR | -> RSA below 16M |
| (28) | CHARACTER | | DATA_START | Dummy |

ECB

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 20 | ECB | |
| (0) | BITSTRING | 1 | CON1 | X'00' |
| (1) | BITSTRING | 3 | CON1A | X'00' |
| (4) | BITSTRING | 1 | CON2 | X'00' |
| (5) | BITSTRING | 1 | CON3 | X'20' |
| (6) | UNSIGNED | 2 | DCECBIOI | Length |
| (8) | ADDRESS | 4 | DCDCB | -> DCB |
| (C) | ADDRESS | 4 | DCECBIOA | -> Buffer |
| (10) | UNSIGNED | 4 | CON4 | X'00' |

Remote parameter list

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 4 | WL | |
| (0) | CHARACTER | 1 | RES1 | Option byte |
| (1) | ADDRESS | 3 | WL_DCB_PTR | -> DCB |

Save area for BSAM calls (NOTE, POINT, WRITE, CHECK)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|-------------|
| (0) | STRUCTURE | 72 | BSAM_SAVE_AREA | |
| (0) | ADDRESS | 4 | * (18) | Save area |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|--------------------|-------------|
| 0 | BIT | 1 | SWITCH_IN_PROG_YES | |
| 0 | BIT | 0 | SWITCH_IN_PROG_NO | |

Meanings of XD_ FLAGS.DUXD_ACTIVE

| | | | | |
|---|-----|---|-----------------|--|
| 0 | BIT | 1 | DUXD_ACTIVE_YES | |
| 0 | BIT | 0 | DUXD_ACTIVE_NO | |

Meanings of XD_ FLAGS.XDUCLSE_ACTIVE

| | | | | |
|---|-----|---|--------------------|--|
| 0 | BIT | 1 | XDUCLSE_ACTIVE_YES | |
| 0 | BIT | 0 | XDUCLSE_ACTIVE_NO | |

Meanings of XD_ FLAGS.XDUOUT_ACTIVE

| | | | | |
|---|-----|---|-------------------|--|
| 0 | BIT | 1 | XDUOUT_ACTIVE_YES | |
| 0 | BIT | 0 | XDUOUT_ACTIVE_NO | |

Meanings of XD_ FLAGS.XDUREQ_ACTIVE

| | | | | |
|---|-----|---|-------------------|--|
| 0 | BIT | 1 | XDUREQ_ACTIVE_YES | |
| 0 | BIT | 0 | XDUREQ_ACTIVE_NO | |

Meanings of XD_ FLAGS.OPEN_STATUS

| | | | | |
|---|-----|---|-----------------|--|
| 0 | BIT | 1 | XD_OPEN | |
| 0 | BIT | 0 | XD_CLOSED | |
| 0 | BIT | 0 | DUMP_TRACE_TRAN | |
| 0 | BIT | 1 | DUMP_TRACE_ALL | |

General Constants

| | | | | |
|---|-----|---|-----|--|
| 0 | BIT | 1 | YES | |
| 0 | BIT | 0 | NO | |

The following values are passed to XDUOUT, as the first parm

| | | | | |
|---|-----|----|-------------------|--|
| 1 | HEX | 00 | XDUOUT_XD_ACT | |
| 1 | HEX | 04 | XDUOUT_XD_RESTART | |
| 1 | HEX | 08 | XDUOUT_XD_ABTERM | |
| 1 | HEX | 0C | XDUOUT_XD_INACT | |

Block names for above.

| | | | | |
|---|-----------|----------|-----------------|--|
| 8 | CHARACTER | SDTBLOCK | SDTBLOCK_NAME | |
| 8 | CHARACTER | TDTBLOCK | TDTBLOCK_NAME | |
| 8 | CHARACTER | BTTBLOCK | BTTBLOCK_NAME | |
| 8 | CHARACTER | FTBLOCK | FTBLOCK_NAME | |
| 2 | CHARACTER | RE | FT_REGISTERED | |
| 2 | CHARACTER | DE | FT_DEREGISTERED | |

Constants for DTE_ DUMPSCOPE

| Len | Type | Value | Name | Description |
|---|-----------|----------|-------------------------------|----------------------------|
| 1 | DECIMAL | 1 | DTE_LOCAL | |
| Dump local address space | | | | |
| 1 | DECIMAL | 2 | DTE_RELATED | |
| Miscellaneous constants. | | | | |
| 1 | CHARACTER | > | ARROW | |
| 4 | DECIMAL | 16 | BDY16 | |
| 4 | HEX | FFFFFFF0 | BDY16ROUND | |
| 1 | DECIMAL | 2 | MAX_DUXWREC_COUNT | |
| Sizes of quickcell blocks | | | | |
| 4 | DECIMAL | 4096 | DTEBLOCK_SIZE | Size of dump table block |
| 4 | DECIMAL | 512 | BTEBLOCK_SIZE | Size of browse table block |
| 4 | DECIMAL | 4096 | FTE_BLOCK_SIZE | Size of FT table block |
| Size of buffer for Dump code statistics | | | | |
| 4 | DECIMAL | 1024 | STATS_BUFFER_SIZE | Size of stats buffer |
| Dump dataset record id's. | | | | |
| 4 | DECIMAL | 1 | DUID_DUMP_HEADER | |
| 4 | DECIMAL | 2 | DUID_DUA | |
| Dump record names. | | | | |
| 8 | CHARACTER | DUA | DUNM_DUA | |
| DUDM trace point ids | | | | |
| 2 | HEX | 0001 | TPID_DUDM_ENTER | |
| 2 | HEX | 0002 | TPID_DUDM_EXIT | |
| 2 | HEX | 0003 | TPID_DUDM_INVALID | |
| 2 | HEX | 0004 | TPID_DUDM_RECOV | |
| 2 | HEX | 0007 | TPID_DUDM_LOADFAIL | |
| 2 | HEX | 0008 | TPID_DUDM_GMAIN_DUA | |
| 2 | HEX | 0009 | TPID_DUDM_GMAIN_DUA_RET | |
| 2 | HEX | 000A | TPID_DUDM_GMAIN_SDT | |
| 2 | HEX | 000B | TPID_DUDM_GMAIN_SDT_RET | |
| 2 | HEX | 000C | TPID_DUDM_GMAIN_TDT | |
| 2 | HEX | 000D | TPID_DUDM_GMAIN_TDT_RET | |
| 2 | HEX | 000E | TPID_DUDM_GMAIN_STATS_BUF | |
| 2 | HEX | 000F | TPID_DUDM_GMAIN_STATS_BUF_RET | * |
| DUDU trace point ids | | | | |
| 2 | HEX | 0101 | TPID_DUDU_ENTER | |
| 2 | HEX | 0102 | TPID_DUDU_EXIT | |
| 2 | HEX | 0103 | TPID_DUDU_INVALID | |
| 2 | HEX | 0104 | TPID_DUDU_RECOV | |
| 2 | HEX | 0105 | TPID_DUDU_DUMP_TABLE_NOT_INIT | |
| DUSR trace point ids | | | | |
| 2 | HEX | 0301 | TPID_DUSR_ENTER | |
| 2 | HEX | 0302 | TPID_DUSR_EXIT | |
| 2 | HEX | 0304 | TPID_DUSR_RECOV | |
| 2 | HEX | 0305 | TPID_DUSR_DFHDUMPX_ADD_FAILED | |
| DUDT trace point ids | | | | |
| 2 | HEX | 0500 | TPID_DUDT_ENTER | |
| 2 | HEX | 0501 | TPID_DUDT_EXIT | |
| 2 | HEX | 0502 | TPID_DUDT_RECOV | |
| 2 | HEX | 0503 | TPID_DUDT_INVALID_FORMAT | |
| 2 | HEX | 0504 | TPID_DUDT_INVALID_DT_FUNCTION | |
| 2 | HEX | 0505 | TPID_DUDT_INVALID_ST_FUNCTION | |
| DUTM trace point ids | | | | |
| 2 | HEX | 0600 | TPID_DUTM_ENTER | |
| 2 | HEX | 0601 | TPID_DUTM_EXIT | |
| 2 | HEX | 0602 | TPID_DUTM_RECOV | |
| 2 | HEX | 0603 | TPID_DUTM_INVALID_FORMAT | |
| 2 | HEX | 0604 | TPID_DUTM_INVALID_TM_FUNCTION | |
| 2 | HEX | 0605 | TPID_DUTM_INVALID_ST_FUNCTION | |
| 2 | HEX | 0606 | TPID_DUTM_INVALID_GETN_BT | |
| 2 | HEX | 0607 | TPID_DUTM_INVALID_ENDBR_BT | |

| Len | Type | Value | Name | Description |
|--|------|-------|-------------------------------|-------------|
| 2 | HEX | 0608 | TPID_DUTM_ INVALID_ST_TYPE | |
| 2 | HEX | 0609 | TPID_DUTM_ GMAIN_BTT | |
| 2 | HEX | 060A | TPID_DUTM_ GMAIN_BTT_RET | |
| 2 | HEX | 060B | TPID_DUTM_ GMAIN_SDT | |
| 2 | HEX | 060C | TPID_DUTM_ GMAIN_SDT_RET | |
| 2 | HEX | 060D | TPID_DUTM_ GMAIN_TDT | |
| 2 | HEX | 060E | TPID_DUTM_ GMAIN_TDT_RET | |
| 2 | HEX | 060F | TPID_DUTM_ BTT_NOSTOR | |
| 2 | HEX | 0610 | TPID_DUTM_ SDT_NOSTOR | |
| 2 | HEX | 0611 | TPID_DUTM_ TDT_NOSTOR | |
| <hr/> | | | | |
| DUIO trace point ids | | | | |
| 2 | HEX | 0200 | DUIO_ENTRY | |
| 2 | HEX | 0201 | DUIO_EXIT | |
| 2 | HEX | 0202 | DUIO_RECOVERY | |
| 2 | HEX | 0203 | DUIO_DOPEN | |
| 2 | HEX | 0204 | DUIO_DOPEN_RET | |
| 2 | HEX | 0205 | DUIO_DEVTYPE | |
| 2 | HEX | 0206 | DUIO_DEVTYPE_RET | |
| 2 | HEX | 0207 | DUIO_GMAIN | |
| 2 | HEX | 0208 | DUIO_GMAIN_RET | |
| 2 | HEX | 0209 | DUIO_FRMAIN | |
| 2 | HEX | 020A | DUIO_FRMAIN_RET | |
| 2 | HEX | 020B | DUIO_CLOSED | |
| 2 | HEX | 020C | DUIO_CLOSED_RET | |
| 2 | HEX | 020D | DUIO_FRPOOL | |
| 2 | HEX | 020E | DUIO_FRPOOL_RET | |
| 2 | HEX | 020F | DUIO_DWRITE | |
| 2 | HEX | 0210 | DUIO_DWRITE_RET | |
| 2 | HEX | 0211 | DUIO_CHK | |
| 2 | HEX | 0212 | DUIO_CHK_RET | |
| 2 | HEX | 0214 | DUIO_DCB_ABEND | |
| 2 | HEX | 0239 | DUIO_NOTE | |
| 2 | HEX | 0240 | DUIO_NOTERET | |
| 2 | HEX | 0241 | DUIO_POINT | |
| 2 | HEX | 0242 | DUIO_POINTRET | |
| <hr/> | | | | |
| DUSU trace point ids | | | | |
| 2 | HEX | 0215 | DUSU_ENTRY | |
| 2 | HEX | 0216 | DUSU_EXIT | |
| 2 | HEX | 0217 | DUSU_RECOVERY | |
| 2 | HEX | 0250 | DUSU_DYNALLOC_ENTER | |
| 2 | HEX | 0251 | DUSU_DYNALLOC_RETURN | |
| 2 | HEX | 0252 | DUSU_FRMAIN | |
| 2 | HEX | 0253 | DUSU_FRMAIN_RET | |
| <hr/> | | | | |
| DUXD trace point ids | | | | |
| 2 | HEX | 0218 | DUXD_ENTRY | |
| 2 | HEX | 0219 | DUXD_EXIT | |
| 2 | HEX | 021A | DUXD_RECOVERY | |
| <hr/> | | | | |
| DUXW trace point ids | | | | |
| 2 | HEX | 021B | DUXW_ENTRY | |
| 2 | HEX | 021C | DUXW_EXIT | |
| 2 | HEX | 021D | DUXW_RECOVERY | |
| <hr/> | | | | |
| XDF transaction dump formatter trace point ids | | | | |
| 2 | HEX | 021E | DLXDF_ENTRY | |
| 2 | HEX | 021F | DLXDF_EXIT | |
| 2 | HEX | 0220 | DLXDF_RECOVERY | |
| 2 | HEX | 0221 | XRxdf_ENTRY | |
| 2 | HEX | 0222 | XRxdf_EXIT | |
| 2 | HEX | 0223 | XRxdf_RECOVERY | |
| 2 | HEX | 0224 | TCXDF_ENTRY | |
| 2 | HEX | 0225 | TCXDF_EXIT | |
| 2 | HEX | 0226 | TCXDF_RECOVERY | |
| 2 | HEX | 0227 | PCXDF_ENTRY | |
| 2 | HEX | 0228 | PCXDF_EXIT | |
| 2 | HEX | 0229 | PCXDF_RECOVERY | |
| 2 | HEX | 022A | SAXDF_ENTRY | |
| 2 | HEX | 022B | SAXDF_EXIT | |
| 2 | HEX | 022C | SAXDF_RECOVERY | |
| 2 | HEX | 022D | FCXDF_ENTRY | |
| 2 | HEX | 022E | FCXDF_EXIT | |
| 2 | HEX | 022F | FCXDF_RECOVERY | |
| 2 | HEX | 0230 | TRXDF_ENTRY | |
| 2 | HEX | 0231 | TRXDF_EXIT | |
| 2 | HEX | 0232 | TRXDF_RECOVERY | |
| 2 | HEX | 0233 | XDXDF_ENTRY | |
| 2 | HEX | 0234 | XDXDF_EXIT | |
| 2 | HEX | 0235 | XDXDF_RECOVERY | |
| 2 | HEX | 0236 | SMXDF_ENTRY | |
| 2 | HEX | 0237 | SMXDF_EXIT | |

| Len | Type | Value | Name | Description |
|---|---------|-------|----------------------------|-------------------|
| 2 | HEX | 0238 | SMXDF_RECOVERY | |
| DFHDUSVC dump authorized routines trace point ids | | | | |
| 2 | HEX | 0710 | DUSVC_REMOTE_SDUMP | |
| 2 | HEX | 0711 | DUSVC_INVALID_ PROBDESC | |
| DFHDUMPX SDUMP exit trace point ids | | | | |
| 2 | HEX | 0720 | DUMPX_ENTRY_ID | |
| 2 | HEX | 0721 | DUMPX_EXIT_ID | |
| 2 | HEX | 0722 | DUMPX_WLM_CALL | |
| 2 | HEX | 0723 | DUMPX_WLM_ERROR | |
| 2 | HEX | 0724 | DUMPX_WLM_RET | |
| 2 | HEX | 1F01 | TPID_DUFT_ENTER | |
| 2 | HEX | 1F02 | TPID_DUFT_EXIT | |
| 2 | HEX | 1F03 | TPID_DUFT_RECOV | |
| 2 | HEX | 1F10 | TPID_DUFT_GMAIN_FT | |
| 2 | HEX | 1F11 | TPID_DUFT_GMAIN_FT_RET | |
| 2 | HEX | 1FE1 | TPID_DUFT_FT_NOSTOR | |
| Dump catalog record constants | | | | |
| 0 | BIT | 1 | AUTOSWITCH_ON | |
| 0 | BIT | 0 | AUTOSWITCH_OFF | |
| 0 | BIT | 1 | GL_SYS_SUP_ON | |
| 0 | BIT | 0 | GL_SYS_SUP_OFF | |
| I/O buffer area length | | | | |
| 4 | DECIMAL | 4096 | MAXBUFF | Max buffer length |
| SPACING values used in conjunction with transaction dump rclds. | | | | |
| 1 | DECIMAL | 8 | SPACE3 | |
| 1 | DECIMAL | 4 | SPACE2 | |
| 1 | DECIMAL | 0 | SPACE1 | |
| Messages | | | | |
| 4 | DECIMAL | 1 | DU_ABEND_MSG | DFHDU001 |
| 4 | DECIMAL | 2 | DU_ERROR_MSG | DFHDU002 |
| 4 | DECIMAL | 4 | DU_LOOP_MSG | DFHDU004 |
| 4 | DECIMAL | 102 | DUIO_LOAD_ERROR | DFHDU102 |
| 4 | DECIMAL | 302 | MSG302 | DFHDU302 |
| 4 | DECIMAL | 303 | DUSU_MSG#2 | DFHDU303 |
| 4 | DECIMAL | 304 | DUSU_MSG#1 | DFHDU304 |
| 4 | DECIMAL | 305 | DUSU_MSG#3 | DFHDU305 |
| 4 | DECIMAL | 306 | MSG306 | DFHDU306 |
| 4 | DECIMAL | 307 | MSG307 | DFHDU307 |

DUAFB Dump domain authorised parameter block

The Dump Authorized Facility Parameter Block. This is used to pass parameters to the Dump SVC routine DFHDUSVC, and return responses to the caller.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|--|
| (0) | STRUCTURE | 76 | DAFPB | |
| (0) | CHARACTER | 16 | DAFPB_PREFIX | |
| (0) | UNSIGNED | 2 | DAFPB_LENGTH | control block length |
| (2) | CHARACTER | 1 | DAFPB_ARROW | > |
| (3) | CHARACTER | 3 | DAFPB_DFH | DFH |
| (6) | CHARACTER | 2 | DAFPB_DOMAIN | DU |
| (8) | CHARACTER | 8 | DAFPB_BLOCK_ID | DAFPB |
| (10) | CHARACTER | 60 | DAFPB_DATA | |
| (10) | UNSIGNED | 2 | DAFPB_FUNCTION | required auth. function |
| (12) | UNSIGNED | 2 | DAFPB_RESPONSE | return code from DFHDUSVC |
| (14) | FULLWORD | 4 | DAFPB_SDUMPX_RESPONSE | |
| (18) | ADDRESS | 4 | DAFPB_SYMREC_PTR | MVS return code from SDUMPX pointer to symptom record |
| (1C) | FULLWORD | 4 | DAFPB_SYMREC_LEN | length of symptom record |
| (20) | CHARACTER | 8 | DAFPB_DUMPCODE | dump code |
| (28) | CHARACTER | 9 | DAFPB_DUMPID | dump identifier |
| (31) | CHARACTER | 3 | * | reserved |
| (34) | BITSTRING | 4 | * | reserved |
| (38) | ADDRESS | 4 | DAFPB_REMOTE_MSG_PTR | |
| (3C) | FULLWORD | 4 | DAFPB_CSVDYNEX_RETURN_CODE | address of remote message MVS return code from CSVDYNEX |
| (40) | FULLWORD | 4 | DAFPB_CSVDYNEX_REASON | MVS reason code from CSVDYNEX |
| (44) | FULLWORD | 4 | DAFPB_IWMWQWRK_RETURN_CODE | MVS return code from IWMWQWRK |
| (48) | FULLWORD | 4 | DAFPB_IWMWQWRK_REASON | MVS reason code from IWMWQWRK |
| (4C) | CHARACTER | | DAFPB_END | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------------------|-------------|
| 2 | DECIMAL | 1 | DAFPB_TAKE_SDUMPX | |
| 2 | DECIMAL | 2 | DAFPB_TAKE_RELATED_SDUMPX | |
| 2 | DECIMAL | 3 | DAFPB_CSVDYNEX_ADD_DFHDUMPX | |

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------------------------|---|
| -- | | | | |
| - | | | | |
| | | | | The valid responses from the Dump SVC routine, passed in the "DAFPB" field "dafpb_response". |
| | | | | The responses currently produced are: |
| | | | | ok |
| | | | | The operation was executed successfully. |
| | | | | not_supported |
| | | | | The function code supplied is not valid. |
| | | | | getmain_failed |
| | | | | A GETMAIN request for SP 253 storage failed. |
| | | | | festae_failed |
| | | | | The FESTAE could not be established. |
| | | | | not_authorized |
| | | | | The authorization check failed. |
| | | | | sdumpx_failed |
| | | | | The SDUMPX request failed to complete the dump. The MVS response and reason are returned in "dafpb_sdumpx_response". |
| | | | | csvdynex_failed |
| | | | | The CSVDYNEX request failed. The MVS return code and reason are returned in "dafpb_csvdynex_return_code" and "dafpb_csvdynex_reason". |
| | | | | iwmwqwrk_failed |
| | | | | The IWMWQWRK request failed. The MVS return code and reason are returned in "dafpb_iwmwqwrk_return_code" and "dafpb_iwmwqwrk_reason". |
| | | | | dfhdumpx_not_found |
| | | | | The exit module DFHDUMPX was not found in the LPA. |
| | | | | invalid_probdesc |
| | | | | The SDUMPX PROBDISC data is invalid. |
| 2 | DECIMAL | 0 | DAFPB_OK | |
| 2 | DECIMAL | 1 | DAFPB_NOT_SUPPORTED | |
| 2 | DECIMAL | 2 | DAFPB_GETMAIN_FAILED | |
| 2 | DECIMAL | 3 | DAFPB_FESTAE_FAILED | |
| 2 | DECIMAL | 4 | DAFPB_NOT_AUTHORIZED | |
| 2 | DECIMAL | 5 | DAFPB_SDUMPX_FAILED | |
| 2 | DECIMAL | 6 | DAFPB_CSVSYNEX_FAILED | |
| 2 | DECIMAL | 7 | DAFPB_IWMWQWRK_FAILED | |
| 2 | DECIMAL | 8 | DAFPB_DFHDUMPX_NOT_FOUND | |
| 2 | DECIMAL | 9 | DAFPB_INVALID_PROBDISC | |

DUGS Dump domain global statistics

CONTROL BLOCK NAME = DFHTDGDS
 DESCRIPTIVE NAME = CICS Dump Domain Global Statistics
 (Transaction dumps)
 FUNCTION = A record containing Dump Domain Global Statistics
 This DSECT describes the global transaction dump statistics produced by the Dump Domain. A single instance of the data is produced by the Dump Domain.
 Additional copies may be created by the statistics domain, statistics utility programs or user programs.
 The data consists of a header plus a block of statistics for the Dump domain.
 LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the domain manager.
 STORAGE CLASS = varies
 LOCATION = User is passed a pointer to the storage
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In Dump Domain
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|---------------------------------------|
| (0) | | | DFHTDGDS | Transaction Dump Global Stats |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | TDGLEN | Length of data area |
| | .1.1 .111 | | TDGIDE | "87" Global system dump stats id mask |
| (2) | ADDRESS | 2 | TDGID | Dump Domain global stats id |
| |1 | | TDGVERS | "X'01" Stats version number mask |
| (4) | CHARACTER | 1 | TDGDVERS | Dump domain global stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | TRANS_DUMP_TAKEN | No. of transaction dumps taken |
| (C) | FULLWORD | 4 | TRANS_DUMP_SUPP | No. of transaction dumps supprsd |
| | ...1 | | TDGEND | "" |
| | ...1 | | TDGCLEN | ""-DFHTDGDS" Length of DSECT |

DUTD Dump domain transaction dump statistics

CONTROL BLOCK NAME = DFHTDRDS
 DESCRIPTIVE NAME = CICS Dump Domain Transaction Dump Stats
 FUNCTION = A record containing Dump Domain Transaction Dump Stats
 (By dumpcode)
 This DSECT describes the statistics produced by the Dump Domain for each transaction dumpcode. There will be one instance of the data for each dumpcode for which statistics were requested.
 The data consists of a header plus a block of statistics for the Dump domain.
 LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the Dump Domain.
 STORAGE CLASS =
 LOCATION = User is passed a pointer to the storage
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In Dump Domain
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | | | DFHTDRDS | Dump domain transaction dump stats |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TDRLEN | Length of data area |
| | .1.1 .1.1 | | TDRIDE | "85" Transaction dump stats id mask |
| (2) | ADDRESS | 2 | TDRID | transaction dump stats id |
| |1.1 | | TDRVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | TDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | TDRCODE | Dumpcode |
| (C) | FULLWORD | 4 | TDRSTKN | # of system dumps taken |
| (10) | FULLWORD | 4 | TDRSSUPR | # of system dumps suppressed |
| (14) | FULLWORD | 4 | TDRTTKN | # of transaction dumps taken |
| (18) | FULLWORD | 4 | TDRTSUPR | # of transaction dumps suppressed |
| | ...1 11.. | | TDREND | "" |
| | ...1 11.. | | TDRCLEN | ""-TDRLEN" Length |

DWE Deferred work element

CONTROL BLOCK NAME = DFHDWEDS
 DESCRIPTIVE NAME = CICS Deferred Work Element.
 DEFERRED WORK ELEMENT

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| (0) | | | DFHDWEDS | DUMMY SECTION-DEFRD.WORK ELEM. |
| (0) | HALFWORD | 2 | DWELENG | Length of this DWE |
| (2) | CHARACTER | 4 | DWEEYECA | Eyecatcher set to '>DWE' |
| (6) | CHARACTER | 1 | | Reserved |
| (7) | BITSTRING | 1 | DWESMF | Storage Management Flag |
| | 1... | | DWESMFNT | "X'80" Non task related storage |
| | ..1. | | DWESHUNT | "X'20" Retain DWE if in-doubt |
| (8) | ADDRESS | 4 | DWECHAN | ADDRESS OF NEXT DWE IN CHAIN |
| (C) | ADDRESS | 4 | DWESVMNA | Service module self defining entry point address |
| (10) | BITSTRING | 1 | DWESTAT | D W E STATUS INDICATOR |
| | ..1. | | DWEPHS2 | "X'20" ...DWE APPLIES TO PHASE 2 OF SYNC POINT |
| | 1... | | DWEDYNB | "X'08" ...BEING DYNAMICALLY BACKED OUT |
| |1.. | | DWEVTYES | "X'04" ...VOTE 'YES' TO PREPARE |
| |1. | | DWECNLM | "X'02" ...CANCELLED MASK |
| |1 | | DWEVTNO | "X'01" ...VOTE NO TO PREPARE' |
| (11) | BITSTRING | 1 | DWEMODFN | SERVICE MODULE FUNCTION CODE |
| NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMDIS | | | | |
| (12) | BITSTRING | 1 | DWESVMID | SERVICE MODULE IDENTIFIER |
| NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMDIS | | | | |
| (13) | BITSTRING | 1 | (5) | Reserved |
| (18) | ADDRESS | 4 | DWELXDA | EXTERNAL DATA ADDRESS |
| (1C) | ADDRESS | 4 | DWECMNEA (0) | END OF COMMON AREA |
| | ...1 11.. | | DWEEEXT | *** DWE extensions |
| | ...1 .1.. | | DWEAD | **-DFHDWEDS-8" ABSOLUTE DISPLACEMENT (GETMAIN) I.E. THE ABOVE IS DWE LEN |
| SYSTEM SPOOLING DWE EXTENSION | | | | |
| (1C) | HALFWORD | 2 | DWEPSRNM | REPORT-NUMBER |
| (1E) | CHARACTER | 1 | DWEPSRCV | RECOVERY CODE |
| (1F) | CHARACTER | 1 | DWEPSSTT | REPORT STATUS |
| (20) | CHARACTER | 8 | DWEPSTOK | REPORT TOKEN |
| | ..1. | | DWEPSAD | **-DFHDWEDS-8" PS DWE GETMAIN SIZE |
| GENERAL PURPOSE SUBTASKING DWE EXTENSION | | | | |
| (1C) | ADDRESS | 4 | DWESKWQE | ADDRESS OF WQE TO ADD TO ..FREE QUEUE |
| | ...1 1... | | DWESKAD | **-DFHDWEDS-8" SK DWE GETMAIN SIZE |

DXPS XRF/DBCTL DGB extension

CONTROL BLOCK NAME = DFHDXPS
 DESCRIPTIVE NAME = CICS XRF/DBCTL DGB Extension
 FUNCTION =
 DGBDXPS defines fields used by DBCTL/XRF which require a longer lifetime than CICS life can offer.
 LIFETIME =
 Created at the same time as the DGB, and never deleted.
 LOCATION = CSA->OPFL->DLP->DGB->DXPS
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 Contained in PL/AS Copy Book DFHDXMAC
 Invoke by DFHDXPS no operands
 EXTERNAL REFERENCES = None
 DATA AREAS = Refers to DFHDBWMS, DX_Q_ELEMENT
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 36 | DFHDXPS | |
| (0) | ADDRESS | 4 | DXLSTMSG | Pointer to last DBCTL/XRF message |
| (4) | ADDRESS | 4 | DXSQHDR | Pointer to chain of MVS subtasks |
| (8) | ADDRESS | 4 | DXAXIBA | DFHAXI base address |
| (C) | ADDRESS | 4 | DXAXIGP | Pointer to current AXI group recd |
| (10) | ADDRESS | 4 | DXAXIPT | Pointer to current AXI record |
| (14) | ADDRESS | 4 | DXRTRCNT | Number of retry connect attempts |
| (18) | CHARACTER | 4 | DXDBCID | SSID of first connect attempt |
| (1C) | BITSTRING | 4 | DXFLGS1 | Miscellaneous flags |
| | 1... .. | | AXI_LOADED | Reminder that AXI is to be del |
| | .1.. .. | | DBCTL_RST | Indicator that no DBCTL in RSE act |
| | ..1. | | DFS690SW | Indicator that DFS690 issued |
| | ...1 | | * | Reserved |
| | 1... | | RETCODE8 | Code 8 returned by previous call |
| |1.. | | DXEREF LG | Flag to indicate wait on DXEREECB |
| |11 | | * | Filler for remainder of byte |
| (20) | BITSTRING | 4 | DXEREECB | ECB cleared while ERE issued |
| (20) | BITSTRING | 1 | * | Reserved |
| (21) | BITSTRING | 1 | DXERECMP | ERE completion code Copy DXPS dsect |

DXQEL XRF/DBCTL subtask storage

```

CONTROL BLOCK NAME = DX_Q_ELEMENT
DESCRIPTIVE NAME = CICS XRF/DBCTL subtask storage
FUNCTION =
Defines the fields in an XRF/DBCTL subtask queue element
LIFETIME =
Storage obtained by GETMAIN
LOCATION = CSA->OPFL->DLP->DGB->DXPS->DX_Q_ELEMENT
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
  Contained in PL/AS Copy Book DFHDXMAC
  Invoke by DX_Q_ELE no operands
EXTERNAL REFERENCES = None
DATA AREAS = None
GLOBAL VARIABLES (Macro pass) = None

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--------------------------------------|
| (0) | STRUCTURE | * | DX_Q_ELEMENT | Queue of XRF/DBCTL subtasks |
| (0) | ADDRESS | 4 | DX_NEXT_Q | Address of next Q element |
| (4) | CHARACTER | 8 | DX_CB_ID | DX control block id |
| (C) | ADDRESS | 4 | DX_TCB | Ptr to TCB of attached subtask |
| (10) | BITSTRING | 4 | DX_FLGS1 | DX flag bit settings .. |
| | 1... .. | | DX_LOCK | Lock on this Q element storage |
| | .1.. .. | | DETACHED | Use this bit to remember detach |
| (14) | BITSTRING | 4 | DX_EOT_ECB | End Of Task ECB for attached subtask |
| | 1... .. | | * | Reserved |
| | .1.. .. | | POSTED | Post bit within ECB |
| | ..11 1111 | | * | Reserved |
| (15) | BITSTRING | 3 | DX_CC | Subtask completion code |
| (18) | ADDRESS | 4 | DX_EP_ADDR | Entry Point for attached subtask |
| (1C) | FULLWORD | 4 | DX_PARM_LEN | Parameter length for attached stask |
| (20) | CHARACTER | * | DX_PARMS | Parameters passed to attached |

DXUEP Cics-dbctl XRF user exit parameter list

CONTROL BLOCK NAME = DFHDXUEP
 DESCRIPTIVE NAME = CICS/MVS XRF support of DBCTL
 FUNCTION =
 Defines the parameter list passed to the Global User Exits
 XXDFA,XXDFB, and XXDTO.
 This control block is built by programs DFHDBCT and DFHDBCR
 when a user decision is required on whether to perform an XRF
 takeover after a DBCTL failure, or a DBCTL takeover after a
 CICS failure.
 LIFETIME =
 This control block is created in the life of DFHDBCT or
 DFHDBCR to communicate with XXDFA,XXDFB or XXDTO the
 control block is completely reinitialized every time one
 of these exits is invoked.
 STORAGE CLASS =
 LIFO
 LOCATION =
 N/A
 INNER CONTROL BLOCKS =
 N/A
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 Identify referenced items defined outside this control
 block. Such external references should be avoided.
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|--------------|-------------------------------------|
| (0) | | | DFHDXUEP | |
| (0) | CHARACTER | 4 | UEPDXADB | SSID of old active IMS |
| (4) | CHARACTER | 4 | UEPDXBDB | SSID of proposed alternate |
| (8) | CHARACTER | 8 | UEPDXSAD | CICS specific applid |
| (10) | CHARACTER | 8 | UEPDXRSE | IMS RSE name |
| (18) | CHARACTER | 4 | UEPDXCTM | IMS connect time |
| (1C) | CHARACTER | 4 | UEPDXDTM | IMS disconnect/abend time |
| (20) | CHARACTER | 8 | UEPDXJNM | Jes Jobname of old active IMS |
| (28) | CHARACTER | 8 | UEPDXJID | Jes Jobid of old active IMS |
| (30) | BITSTRING | 1 | UEPDXIRT | IMS region type |
| |1 | | DXHOTSBY | "X'01" region type is hot standby |
| |1. | | DXDBDC | "X'02" region type is IMS DB/DC |
| |1.. | | DXDBCTL | "X'04" region type is DBCTL |
| (31) | CHARACTER | 4 | UEPDXSMF | SMFID of active CEC |
| (35) | CHARACTER | 4 | UEPDXJES | Jes SSID of active CEC |
| (3A) | HALFWORD | 2 | UEPDXASD | ASID of old active IMS |
| (3C) | FULLWORD | 4 | UEPDXRTC | Return code from XXDFA (XXDFB only) |
| (40) | FULLWORD | 4 | UEPDXATC (0) | Action code from XXDFA (XXDFB only) |
| (40) | BITSTRING | 1 | DXMVSID | Active IMS had SSID in AXI RSE |
| (41) | BITSTRING | 1 | DXAPPLID | Active CICS has Applid in AXI RSE |
| (42) | BITSTRING | 1 | DXEQJES | Active CICS on same JES as IMS |
| (43) | BITSTRING | 1 | DXALTFND | Alternate IMS fnd in active CEC |
| (44) | BITSTRING | 1 | DXCMDISS | Restart issued in active CEC |
| (45) | BITSTRING | 1 | UEPDXSND | MVS System Indicator |
| | 1... .. | | DXXCFA | "X'80" ...XCF services available |
| (46) | CHARACTER | 8 | UEPDXSPX | XCF sysplex name for active |
| (4E) | CHARACTER | 8 | UEPDXSNM | MVS system name for active |
| (56) | CHARACTER | 4 | UEPDXSTK | MVS System token for active |

D2GDS Cics/db2 global statistics

CONTROL BLOCK NAME = DFHD2GDS
 DESCRIPTIVE NAME = CICS DB2 Global statistics
 FUNCTION =
 This dsect describes the CICS/DB2 statistics provided by the CICS/DB2 Attachment facility.
 A single record will be built to respond to a request for DB2CONN statistics.
 LIFETIME =
 The statistics record is created when a global statistics request is received. Storage for the data block is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from CICS/DB2 Attachment Facility.
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2GDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|-------------------------------------|
| (0) | | | DFHD2GDS | CICS/DB2 Global statistics |
| (0) | FULLWORD | 4 | (0) | fullword alignment |
| (0) | HALFWORD | 2 | D2GLEN | Length of data area |
| | .11. .11. | | D2GIDE | "0102"CICS/DB2 global stats id mask |
| (2) | ADDRESS | 2 | D2GID | CICS/DB2 global stats id |
| |1 | | D2GVERS | "X'01"Stats version number id mask |
| (4) | CHARACTER | 1 | D2GDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | D2G_GLOBAL_STATS (0) | global stats |
| (8) | CHARACTER | 8 | D2G_DB2CONN_NAME | name of the DB2CONN |
| (10) | CHARACTER | 4 | D2G_DB2_ID | DB2 sysid |
| (14) | CHARACTER | 4 | D2G_DB2_RELEASE | release of DB2 |
| (18) | CHARACTER | 8 | D2G_CONNECT_ TIME_GMT | connect time (GMT) |
| (20) | CHARACTER | 8 | D2G_CONNECT_ TIME_LOCAL | connect time (local) |
| (28) | CHARACTER | 8 | D2G_DISCONNECT_ TIME_GMT | disconnect time (GMT) |
| (30) | CHARACTER | 8 | D2G_DISCONNECT_ TIME_LOCAL | disconnect time (local) |
| (38) | FULLWORD | 4 | D2G_TCB_LIMIT | max number of TCBS |
| (3C) | FULLWORD | 4 | D2G_TCB_CURRENT | current number of TCBS |
| (40) | FULLWORD | 4 | D2G_TCB_HWM | HWM of TCBS |
| (44) | FULLWORD | 4 | D2G_TCB_FREE | current number of free TCBS |
| (48) | FULLWORD | 4 | D2G_TCB_ READYQ_CURRENT | number of tasks on TCB readyq |
| (4C) | FULLWORD | 4 | D2G_TCB_READYQ_HWM | peak number of tasks on TCB readyq |
| (50) | CHARACTER | 40 | | reserved |
| (78) | FULLWORD | 4 | D2G_POOL_STATS (0) | pool statistics |
| (78) | CHARACTER | 8 | D2G_POOL_PLAN_NAME | static plan name if any |
| (80) | CHARACTER | 8 | D2G_POOL_ PLANEXIT_NAME | planexit name if any |
| (88) | CHARACTER | 8 | D2G_POOL_AUTHID | static authid if any |
| (90) | BITSTRING | 1 | D2G_POOL_AUTHTYPE | authtype if any |
| (91) | BITSTRING | 1 | D2G_POOL_ACCOUNTREC | Accountrec setting |
| (92) | BITSTRING | 1 | D2G_POOL_THREADWAIT | Threadwait setting |
| (93) | BITSTRING | 1 | D2G_POOL_PRIORITY | thread priority |
| (94) | FULLWORD | 4 | D2G_POOL_CALLS | number of calls using pool |
| (96) | FULLWORD | 4 | D2G_POOL_SIGNONS | number of signons |
| (9C) | FULLWORD | 4 | D2G_POOL_COMMITS | number of commits |
| (A0) | FULLWORD | 4 | D2G_POOL_ABORTS | number of aborts |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-------------|-----|-------------------------|-------------------------------------|
| (A4) | FULLWORD | 4 | D2G_POOL_SINGLE_PHASE | number of single phase commits |
| (A8) | FULLWORD | 4 | D2G_POOL_THREAD_REUSE | number of thread reuses |
| (AC) | FULLWORD | 4 | D2G_POOL_THREAD_TERM | number of thread terminates |
| (B0) | FULLWORD | 4 | D2G_POOL_THREAD_WAITS | number of thread waits |
| (B4) | FULLWORD | 4 | D2G_POOL_THREAD_LIMIT | maximum number of threads |
| (B8) | FULLWORD | 4 | D2G_POOL_THREAD_CURRENT | current number of threads |
| (BC) | FULLWORD | 4 | D2G_POOL_THREAD_HWM | peak number of threads |
| (C0) | FULLWORD | 4 | D2G_POOL_TASK_CURRENT | current number of tasks |
| (C4) | FULLWORD | 4 | D2G_POOL_TASK_HWM | peak number of tasks |
| (C8) | FULLWORD | 4 | D2G_POOL_TASK_TOTAL | total number of tasks |
| (CC) | FULLWORD | 4 | D2G_POOL_READYQ_CURRENT | number of tasks on ready queue |
| (D0) | FULLWORD | 4 | D2G_POOL_READYQ_HWM | peak number of tasks on ready queue |
| (D4) | CHARACTER | 28 | | reserved |
| (F0) | FULLWORD | 4 | D2G_COMMAND_STATS (0) | DSNC command statistics |
| (F0) | CHARACTER | 8 | D2G_COMD_AUTHID | static authid if any |
| (F8) | BITSTRING | 1 | D2G_COMD_AUTHTYPE | authtype if any |
| (F9) | CHARACTER | 3 | | reserved |
| (FC) | FULLWORD | 4 | D2G_COMD_CALLS | number of dsnc comd calls |
| (100) | FULLWORD | 4 | D2G_COMD_SIGNONS | number of signons |
| (104) | FULLWORD | 4 | D2G_COMD_THREAD_TERM | number of thread terminates |
| (108) | FULLWORD | 4 | D2G_COMD_THREAD_OVERF | number of overflows to pool |
| (10C) | FULLWORD | 4 | D2G_COMD_THREAD_LIMIT | maximum number of threads |
| (110) | FULLWORD | 4 | D2G_COMD_THREAD_CURRENT | current number of threads |
| (114) | FULLWORD | 4 | D2G_COMD_THREAD_HWM | peak number of threads |
| (118) | CHARACTER | 36 | | reserved |
| (118) | | | D2G_END | *** |
| (118) | | | D2G_LENGTH | **-D2GLEN"Length of dsect |
| Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE | | | | |
|  | .... .... |  | D2G_AUTHTYPE_NA | "0" Not applicable |
| |1 | | D2G_AUTHTYPE_USERID | "1" Authtype(userid) |
| |1. | | D2G_AUTHTYPE_OPID | "2" Authtype(opid) |
| |11 | | D2G_AUTHTYPE_GROUP | "3" Authtype(group) |
| |1.. | | D2G_AUTHTYPE_SIGNID | "4" Authtype(signid) |
| |1.1 | | D2G_AUTHTYPE_TERM | "5" Authtype(term) |
| |11. | | D2G_AUTHTYPE_TXID | "6" Authtype(txid) |
| Equates to test D2G_POOL_ACCOUNTREC | | | | |
| |1 | | D2G_ACCOUNTREC_NONE | "1" Accountrec(none) |
| |1. | | D2G_ACCOUNTREC_TXID | "2" Accountrec(txid) |
| |11 | | D2G_ACCOUNTREC_TASK | "3" Accountrec(task) |
| |1.. | | D2G_ACCOUNTREC_UOW | "4" Accountrec(uow) |
| Equates to test D2G_POOL_THREADWAIT | | | | |
| |1 | | D2G_THREADWAIT_YES | "1" Threadwait(yes) |
| |1. | | D2G_THREADWAIT_NO | "2" Threadwait(no) |
| Equates to test D2G_POOL_PRIORITY | | | | |
| |1 | | D2G_PRIORITY_HIGH | "1" Priority(high) |
| |1. | | D2G_PRIORITY_EQUAL | "2" Priority(equal) |
| |11 | | D2G_PRIORITY_LOW | "3" Priority(low) |

D2RDS Cics/db2 resource statistics

CONTROL BLOCK NAME = DFHD2RDS
 DESCRIPTIVE NAME = CICS DB2 Resource statistics
 FUNCTION =
 This dsect describes the CICS/DB2 statistics provided by the CICS/DB2 Attachment facility.
 A single record will be built to respond to a request for DB2ENTRY statistics.
 LIFETIME =
 The statistics record is created when a resource statistics request is received. Storage for the data block is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from CICS/DB2 Attachment Facility
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2RDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|---------------------------------------|
| (0) | | | DFHD2RDS | CICS/DB2 Resource statistics |
| (0) | FULLWORD | 4 | (0) | fullword alignment |
| (0) | HALFWORD | 2 | D2RLEN | Length of data area |
| | .11. .111 | | D2RIDE | "0103"CICS/DB2 resource stats id mask |
| (2) | ADDRESS | 2 | D2RID | CICS/DB2 resource stats id |
| |1 | | D2RVERS | "X'01"Stats version number id mask |
| (4) | CHARACTER | 1 | D2RDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | D2R_DB2ENTRY_ NAME | name of the DB2ENTRY |
| (10) | CHARACTER | 8 | D2R_PLAN_NAME | static plan name if any |
| (18) | CHARACTER | 8 | D2R_PLANEXIT_ NAME | planexit name if any |
| (20) | CHARACTER | 8 | D2R_AUTHID | static authid if any |
| (28) | BITSTRING | 1 | D2R_AUTHTYPE | authtype if any |
| (29) | BITSTRING | 1 | D2R_ACCOUNTREC | Accountrec setting |
| (2A) | BITSTRING | 1 | D2R_THREADWAIT | Threadwait setting |
| (2B) | BITSTRING | 1 | D2R_PRIORITY | thread priority |
| (2C) | FULLWORD | 4 | D2R_CALLS | number of calls using db2entry |
| (30) | FULLWORD | 4 | D2R_SIGNONS | number of signons |
| (34) | FULLWORD | 4 | D2R_COMMITS | number of commits |
| (38) | FULLWORD | 4 | D2R_ABORTS | number of aborts |
| (3C) | FULLWORD | 4 | D2R_SINGLE_PHASE | number of single phase commits |
| (40) | FULLWORD | 4 | D2R_THREAD_REUSE | number of thread reuses |
| (44) | FULLWORD | 4 | D2R_THREAD_TERM | number of thread terminates |
| (48) | FULLWORD | 4 | D2R_THREAD_ WAIT_OR_OVERFL | number of thread waits or overflows |
| (4C) | FULLWORD | 4 | D2R_THREAD_LIMIT | maximum number of threads |
| (50) | FULLWORD | 4 | D2R_THREAD_ CURRENT | current number of threads |
| (54) | FULLWORD | 4 | D2R_THREAD_HWM | peak number of threads |
| (58) | FULLWORD | 4 | D2R_PTHREAD_ LIMIT | maximum number of protected threads |
| (5C) | FULLWORD | 4 | D2R_PTHREAD_ CURRENT | current number of protected threads |
| (60) | FULLWORD | 4 | D2R_PTHREAD_HWM | peak number of protected threads |
| (64) | FULLWORD | 4 | D2R_TASK_CURRENT | current number of tasks |
| (68) | FULLWORD | 4 | D2R_TASK_HWM | peak number of tasks |
| (6C) | FULLWORD | 4 | D2R_TASK_TOTAL | total number of tasks |
| (70) | FULLWORD | 4 | D2R_READYQ_ CURRENT | number of tasks on ready queue |
| (74) | FULLWORD | 4 | D2R_READYQ_HWM | peak number of tasks on ready queue |
| (78) | CHARACTER | 36 | | reserved |
| | 1..1 11.. | | D2R_END | *** |
| | 1..1 11.. | | D2R_LENGTH | **-D2RLEN"Length of dsect |

Equates to test D2R_AUTHTYPE

| | | |
|------------|----------------------|----------------------|
| .... .... | D2R_AUTHTYPE_NA | "0" Not applicable |
|1 | D2R_AUTHTYPE_ USERID | "1" Authtype(userid) |
|1. | D2R_AUTHTYPE_ OPID | "2" Authtype(opid) |
|11 | D2R_AUTHTYPE_ GROUP | "3" Authtype(group) |
|1.. | D2R_AUTHTYPE_ SIGNID | "4" Authtype(signid) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|------|-----|---------------------|----------------------|
| .... | .1.1 | | D2R_AUTHTYPE_TERM | "5" Authtype(term) |
| .... | .11. | | D2R_AUTHTYPE_TXID | "6" Authtype(txid) |
| Equates to test D2R_ACCOUNTREC | | | | |
| .... | ...1 | | D2R_ACCOUNTREC_NONE | "1" Accountrec(none) |
| .... | .1. | | D2R_ACCOUNTREC_TXID | "2" Accountrec(txid) |
| .... | .11 | | D2R_ACCOUNTREC_TASK | "3" Accountrec(task) |
| .... | .1.. | | D2R_ACCOUNTREC_UOW | "4" Accountrec(uow) |
| Equates to test D2R_THREADWAIT | | | | |
| .... | ...1 | | D2R_THREADWAIT_YES | "1" Threadwait(yes) |
| .... | .1. | | D2R_THREADWAIT_NO | "2" Threadwait(no) |
| .... | .11 | | D2R_THREADWAIT_POOL | "3" Threadwait(pool) |
| Equates to test D2R_PRIORITY | | | | |
| .... | ...1 | | D2R_PRIORITY_HIGH | "1" Priority(high) |
| .... | .1. | | D2R_PRIORITY_EQUAL | "2" Priority(equal) |
| .... | .11 | | D2R_PRIORITY_LOW | "3" Priority(low) |

ECA Event control area

CONTROL BLOCK NAME = DFHECAPS
 DESCRIPTIVE NAME = CICS Event Control Area
 FUNCTION =
 The Event Control Area is used by interval control (DFHICP).
 The ECA is obtained for a POST type ICE.
 It contains the ECB. The ECA's are getmained from a subpool called APECA which resides below the line and has USER access. The ICETECAA field will contain the address of the ECA associated with an ICE. If there is no ECA for the ICE then ICETECAA is zero. Inline DFHSMGF1 calls are made to get and free ECAs.
 LIFETIME =
 The control block is created with a POST type ICE.
 The ECA is freed when the assoiated ICE is freed.
 STORAGE CLASS =
 The storage class is APECA.
 LOCATION =
 To locate an ECA use the ICETECAA field which contains the address of the ECA associated with the ICE. If the ICETECAA field equals zero then there is no ECA.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = none
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 4 | DFHECAPS | |
| (0) | UNSIGNED | 4 | ECATECB | Event Control Area |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|----------|-------------|-------------|
| 4 | DECIMAL | 4 | ECA_LENGTH | Length ECA |
| 4 | HEX | 40008000 | ECA_POSTBIT | Post bits |

EDF EDF communication area

CONTROL BLOCK NAME = DFHEDFDS
DESCRIPTIVE NAME = CICS EDF Debug Linkage Area
FUNCTION =
This DSECT describes the user task data that is used by EDF to display the status information, etc.
It is obtained in DFHEDFX for each EDF call. It is then filled with data describing the user transaction state.
It is passed to the EDF task as an ATTACH parm, and is used by the attached EDF task. The storage is freed in DFHEDFX when the user task is resumed.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHEDFDS | |
| (0) | FULLWORD | 4 | EDFUEIA | TCTTE EXEC INTERFACE ADDR |
| (4) | FULLWORD | 4 | EDFUTCA | ADDRESS OF USER'S TCA |
| (8) | FULLWORD | 4 | EDFUR1 | ADDRESS OF USER PARM LIST |
| (C) | FULLWORD | 4 | EDFUEISP | ADDRESS OF USER'S EIS |
| (10) | FULLWORD | 4 | EDFUEIBP | ADDRESS OF USER'S EIB EDF TASK MANAGEMENT INFO |
| (14) | BITSTRING | 1 | EDFXA | TASK SWITCH ATTRIBUTE |
| | | | EDFLINK | "X'FF" CEDF ATTACHED TO LINK EDFD |
| | | | EDFSTRT | "X'FE" CEDF ATTACHED TO START CEDF DEBUG MODE INFO |
| (15) | BITSTRING | 1 | EDFCTL1 | COPY OF EISEDFDM REQUEST BYTE INFO |
| (16) | BITSTRING | 1 | EDFCTL2 | COPY OF EISEDFRB EDF CONTROL INFO |
| (17) | BITSTRING | 1 | EDFCTL3 | EDF CONTROL BITS |
| | | | EDFOUTD | "X'80" DISP=OUT FOR PAGE BUILD |
| | | | EDFDBCNT | "X'40" EDF DEBUG MODE CONTINUES |
| | | | EDFIVPS | "X'20" INVALID PAGE SIZE |
| | | | EDFUTPG | "X'10" USER TASK HAS BEEN PURGED |
| | | | EDFPAGD | "X'08" DISP=PAGING FOR BMS |
| | | | EDFDTMOK | "X'04" EDFD TERMINATED CORRECTLY |
| | | | EDFSECV | "X'02" SECURITY VIOLATION |
| (18) | BITSTRING | 1 | EDFCTL4 | USER LANGUAGE INFO |
| (19) | BITSTRING | 1 | EDFTOS | BIT PATTERN=OUT OF SERVICE |
| | | | EDFNIS | "X'02" TERMERR RECEIVED |
| (1A) | BITSTRING | 1 | EDFUTRTO | Terminal read time out value |
| (1B) | CHARACTER | 1 | EDFOPSYS | OPERATING SYS FROM CSAOPSYS |
| (1C) | FULLWORD | 4 | EDFUASTG | ADDRESS OF USER'S AUTO STG |
| (20) | FULLWORD | 4 | EDFURE | USER'S RETURN REGISTER |
| (24) | FULLWORD | 4 | EDFUCDB | USER'S CODE BASE |
| (28) | CHARACTER | 8 | EDFPGMID | USER'S PROGRAM NAME |
| (30) | BITSTRING | 1 | EDFENV | Current Environment |
| | | | EDFURM | "X'80" URM |
| (31) | BITSTRING | 2 | | Reserved FILE CONTROL INFO |
| (33) | BITSTRING | 1 | EDFFCRF | FILE CONTROL RECORD FORMAT |
| | | | EDFFCF | "X'80" FC FIXED FORMAT |
| | | | EDFFCV | "X'40" FC VARYING FORMAT |
| | | | EDFBDAM | "X'20" FC ACCESS METHOD=BDAM |
| | | | EDFVSAM | "X'10" FC ACCESS METHOD=VSAM |
| | | | EDFISAM | "X'08" FC ACCESS METHOD=ISAM |
| (34) | HALFWORD | 2 | EDFFCRL | FILE CONTROL RECORD LENGTH |
| (36) | BITSTRING | 1 | EDFFCKL | FILE CONTROL KEY LENGTH |
| (37) | BITSTRING | 1 | EDFUTCTR | User's send/receive flags |
| (38) | FULLWORD | 4 | EDFABRA | ADDRESS of EDF ABEND info |
| (3C) | FULLWORD | 4 | EDFUACP | ADDR OF USER ABCODE SLOT |
| (40) | FULLWORD | 4 | EDFACP | ADDR OF EDF ABCODE SLOT |
| (44) | FULLWORD | 4 | EDFURSAP | ADDRESS OF USER REGISTERS |
| (48) | FULLWORD | 4 | EDFPLBA | PARTITION LOWER BOUND ADDR |
| (4C) | FULLWORD | 4 | EDFPUBA | PARTITION UPPER BOUND ADDR |
| (50) | FULLWORD | 4 | EDFUTCTA | USER'S TCTTE ADDRESS |
| (54) | CHARACTER | 4 | EDFUQTD | USER'S TERMD/TRANID |
| (58) | FULLWORD | 4 | EDFUARSA | ADDR OF USER RSA |
| (5C) | HALFWORD | 2 | | RESERVED |
| (5E) | HALFWORD | 2 | EDFCALEN | USER'S EIBCALEN |
| (60) | FULLWORD | 4 | EDFCOMAA | USER'S COMMAREA ADDR |
| (64) | FULLWORD | 4 | EDFUTEDA | COPY OF TCTTEDA AS SET FOR APPLICATION REQUESTS |
| (68) | FULLWORD | 4 | EDFUEIEX | COPY OF TCTEEIEX AS SET FOR APPLICATION REQUESTS |
| (6C) | FULLWORD | 4 | EDFPGLMN | PROGRAM LENGTH |
| (70) | FULLWORD | 4 | EDFTSADR | TERM. STATUS FIELD ADDR |
| (74) | FULLWORD | 4 | EDFMSA | MODULE START ADDRESS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|--|
| (78) | FULLWORD | 4 | EDFUR1SA | ADDRESS OF EISEIPR1 (USED AND SET BY DFHEDFCC) |
| (7C) | FULLWORD | 4 | EDFUEILR | COPY OF TCTEEILR AS SET FOR APPLICATION REQUESTS |
| (80) | FULLWORD | 4 | | Reserved |
| (84) | CHARACTER | 4 | EDFSYST | sysid from which remote DPL abend was received |
| (88) | FULLWORD | 4 | EDF_USRTASK_ SUSPTOK | User task suspend token |
| (8C) | FULLWORD | 4 | EDFSECCL | Security switch routine |
| (90) | ADDRESS | 4 | EDF_APPL_ STATIC_STG_PTR | User program's static storage |
| (94) | ADDRESS | 4 | EDF_APPL_ STATIC_STG_LEN | User's static storage length |
| (98) | CHARACTER | 8 | EDFPSW | PSW |
| (A0) | CHARACTER | 8 | EDFINT | INTERRUPT INFORMATION |
| (A8) | CHARACTER | 2 | EDFUEIDL | COPY OF TCTEEIDL AS SET FOR APPLICATION REQUESTS |
| (AA) | BITSTRING | 1 | EDFUOPT2 | SAVE TCTEOPT2 |
| (AB) | BITSTRING | 1 | EDFUJSA | Save TCTEJSA |
| (AC) | FULLWORD | 4 | EDFWSLN | LENGTH OF WORKING STORAGE |
| (B0) | FULLWORD | 4 | EDFUTXNO | User task's transaction number |
| (B4) | FULLWORD | 4 | EDFERMSA | NEW ERM EDF INTERFACE |
| (B8) | FULLWORD | 4 | EDFSITOD | IPL TIME OF DAY IN SECONDS |
| (BC) | CHARACTER | 4 | EDFUTXID | User's transaction id |
| (C0) | BITSTRING | 1 | EDFCTL5 | FLAG BYTE INDICATING NEW ERM IFC |
| | | |1.. | EDFSTKCM |
| (C1) | BITSTRING | 1 | EDFCTL6 | "X'04" Command from user exit |
| | | | 1... | EDFRABND |
| | | | .1.. | EDFRPEND |
| (C2) | CHARACTER | 2 | | flag byte |
| (C4) | FULLWORD | 4 | EDFTCAAD | "X'80" DPL remote abend indicator |
| (C8) | FULLWORD | 4 | (0) | "X'40" User task suspended, pending RESUME |
| (C8) | CHARACTER | 64 | EDFREGS (0) | RESERVED FOR FUTURE USE |
| (C8) | FULLWORD | 4 | (16) | 1st EDF Task's TCA address |
| | | | | GP registers 0-15 at abend |

The DLA_USAGE fields are flags to identify those tasks which have need of the Debug Linkage Area. The DLA can only be freed when all of the tasks have relinquished ownership.

| | | | | |
|-------|-----------|---|---------------------------|--------------------------------|
| (108) | CHARACTER | 8 | EDF_DLA_USAGE (0) | Area controlling DLA |
| (108) | | 4 | EDF_DLA_ USER_TASK_USE | Task running DFHEDFX |
| (10C) | | 4 | EDF_DLA_ CEDF_TASK_USE | CEDF running EDFP/EDFD |
| (10C) | | | EDFDSLEN | "-DFHEDFDS" LENGTH OF DFHEDFDS |

EIB EXEC interface block

CONTROL BLOCK NAME = DFHEIBLK
 DESCRIPTIVE NAME = CICS EXEC Interface Block.
 FUNCTION = EXEC Interface Block.

The exec interface block contains information on the transaction identifier, the time and date, and the cursor position on a display device. Some of the other fields are set indicating the next action that a program should take in certain circumstances.

DFHEIBLK also contains information that will be helpful when a dump is being used to debug a program.

This control block is included automatically by an application program using the command-level interface. EISEIBA in the EIS addresses the EIB.

NOTES :

DEPENDENCIES = S/370

MODULE TYPE = Control block definition
 EXEC INTERFACE BLOCK

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHEIBLK | EXEC INTERFACE BLOCK |
| (0) | | 4 | EIBTIME | TIME IN 0HHMMSS FORMAT |
| (4) | | 4 | EIBDATE | DATE IN 0CYYDDD+ FORMAT, where C is the century indicator (0=1900, 1=2000), YY is the year, DDD is the day number and '+' is the sign byte (positive) |
| (8) | CHARACTER | 4 | EIBTRNID | TRANSACTION IDENTIFIER |
| (C) | | 4 | EIBTASKN | TASK NUMBER |
| (10) | CHARACTER | 4 | EIBTRMID | TERMINAL IDENTIFIER |
| (14) | HALFWORD | 2 | EIBRSVD1 | RESERVED |
| (16) | HALFWORD | 2 | EIBCPOSN | CURSOR POSITION |
| (18) | HALFWORD | 2 | EIBCALEN | COMMAREA LENGTH |
| (1A) | CHARACTER | 1 | EIBAID | ATTENTION IDENTIFIER |
| (1B) | CHARACTER | 2 | EIBFN | FUNCTION CODE |
| (1D) | CHARACTER | 6 | EIBRCODE | RESPONSE CODE |
| (23) | CHARACTER | 8 | EIBDS | DATASET NAME |
| (2B) | CHARACTER | 8 | EIBREQID | REQUEST IDENTIFIER |
| (33) | CHARACTER | 8 | EIBRSRCE | RESOURCE NAME |
| (3B) | CHARACTER | 1 | EIBSYNC | X'FF' SYNCPOINT REQUESTED |
| (3C) | CHARACTER | 1 | EIBFREE | X'FF' FREE REQUESTED |
| (3D) | CHARACTER | 1 | EIBRECV | X'FF' RECEIVE REQUIRED |
| (3E) | CHARACTER | 1 | EIBSEND | RESERVED |
| (3F) | CHARACTER | 1 | EIBATT | X'FF' ATTACH RECEIVED |
| (40) | CHARACTER | 1 | EIBEOC | X'FF' EOC RECEIVED |
| (41) | CHARACTER | 1 | EIBFMH | X'FF' FMHS RECEIVED |
| (42) | CHARACTER | 1 | EIBCOMPL | X'FF' DATA COMPLETE |
| (43) | CHARACTER | 1 | EIBSIG | X'FF' SIGNAL RECEIVED |
| (44) | CHARACTER | 1 | EIBCONF | X'FF' CONFIRM REQUESTED |
| (45) | CHARACTER | 1 | EIBERR | X'FF' ERROR RECEIVED |
| (46) | CHARACTER | 4 | EIBERRCD | ERROR CODE RECEIVED |
| (4A) | CHARACTER | 1 | EIBSYNRB | X'FF' SYNC ROLLBACK REQ'D |
| (4B) | CHARACTER | 1 | EIBNODAT | X'FF' NO APPL DATA RECEIVED |
| (4C) | FULLWORD | 4 | EIBRESP | INTERNAL CONDITION NUMBER |
| (50) | FULLWORD | 4 | EIBRESP2 | MORE DETAILS ON SOME RESPONSES |
| (54) | CHARACTER | 1 | EIBRLDBK | ROLLED BACK |
| .1.1 .1.1 | | | EIBLENG | "-EIBTIME" Length of EIB |

END OF EXEC INTERFACE BLOCK

EIC EXEC interface communications area

CONTROL BLOCK NAME = DFHEICPS
 DESCRIPTIVE NAME = CICS EXEC Interface Communications Area.
 FUNCTION = This DSECT describes the CLASS=SHARED storage which
 is used to pass the COMMAREA from one command-level
 transaction to another using an
 EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------------|---|
| (0) | STRUCTURE | 16 | DFHEICDS | |
| (0) | CHARACTER | 16 | EIC | |
| (0) | CHARACTER | 16 | EICBEG | |
| (0) | ADDRESS | 4 | EIC_COMMAREA_ ADDRESS | |
| (4) | UNSIGNED | 1 | EIC_SUBPOOL | A(EICBDA) COMMAREA SUBPOOL INDICATOR |
| (5) | UNSIGNED | 3 | * | RESERVED |
| (8) | ADDRESS | 4 | * | RESERVED |
| (C) | HALFWORD | 2 | EICLL | COMMAREA LENGTH |
| (E) | HALFWORD | 2 | EICBB | RESERVED (MVS) |
| (10) | CHARACTER | | EICDBA | COMMAREA DATA |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------------|---------------------------|
| 1 | DECIMAL | 1 | EIC_APCOMM31 | APCOMM31 CICS KEY SUBPOOL |

EICD1 Language definition table

MODULE NAME = DFHEICD1 COPY
 DESCRIPTIVE NAME = CICS language definition (LD) table structure definiton.
 This COPY module is edited by the EXEC that compiles PLI programs also requiring the LD table structure definition.
 FUNCTION =
 Declarations relating to language definition table (LD table).
 The declarations below define the mapping of the contents of the language definition table.
 The declarations are used by both the translator itself and the table compilation utility program DFHUTG.
 TABROOT is the root of the LD table and gives addressability to all its components and their sizes.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 136 | XTABROOT | The following entries are in pairs consisting of (Pointer, No. of entries) |
| (0) | ADDRESS | 4 | TABXPTR | |
| (4) | FULLWORD | 4 | NTABS | Table entries |
| (8) | ADDRESS | 4 | STTXPTR | |
| (C) | FULLWORD | 4 | NSTTS | Standard text - VBPA |
| (10) | ADDRESS | 4 | CTLXPTR | |
| (14) | FULLWORD | 4 | NCTL | Controls - VBPA |
| (18) | ADDRESS | 4 | KEEXPTR | |
| (1C) | FULLWORD | 4 | NKEYS | Keyword information * |
| (20) | ADDRESS | 4 | VBXPTR | |
| (24) | FULLWORD | 4 | NVBPS | Verb parms |
| (28) | ADDRESS | 4 | KEPXPTR | |
| (2C) | FULLWORD | 4 | NKEPS | Keyword parms |
| (30) | ADDRESS | 4 | SYNXPTR | |
| (34) | FULLWORD | 4 | NSYNS | Syntax tree |
| (38) | ADDRESS | 4 | SPAXPTR | |
| (3C) | FULLWORD | 4 | TSYNS | Reserved |
| (40) | ADDRESS | 4 | NAMXPTR | |
| (44) | FULLWORD | 4 | LNAME | Table name |
| (48) | ADDRESS | 4 | AIBXPTR | |
| (4C) | FULLWORD | 4 | NAIBS | IB format (EIB,DIB) * |
| (50) | ADDRESS | 4 | CODXPTR | |
| (54) | FULLWORD | 4 | NCODS | Address of code gen * |
| (58) | ADDRESS | 4 | BIFXPTR | Address of first BIF * |
| (5C) | CHARACTER | 4 | COMPATF | Compatibility flags * |
| (5C) | CHARACTER | | COMPATF0 | To suit DFHUI |
| | | | COMPNEWF | Extra fields in hdr * |
| | | | COMPKPAR | New style kwd parms * |
| | | | COMPBIF | BIF's present |
| (5C) | BITSTRING | 3 | * | Guaranteed zero now * |
| (60) | ADDRESS | 4 | * | |
| (64) | FULLWORD | 4 | LA0 | Length of ARG0 * |
| (68) | ADDRESS | 4 | * | Reserved |
| (6C) | FULLWORD | 4 | NBYTES | Table End and size * |
| (70) | ADDRESS | 4 | KKKXPTR | New style kwd parms * (NKEPS of them) |
| (74) | ADDRESS | 4 | * | Reserved * |
| (78) | ADDRESS | 4 | * | Reserved * |
| (7C) | ADDRESS | 4 | * | Reserved * |
| (80) | ADDRESS | 4 | * | Reserved * |
| (84) | ADDRESS | 4 | * | Reserved * |

Table Entry: Describes the syntax and code generation parameters for one HLPI statement (One VERB/ADVERB combination.)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 8 | TABINFO | |
| (0) | BITSTRING | 1 | TABFLAGS | Verb flags |
| (1) | UNSIGNED | 1 | TABVB | Index in XKERAY of Verb |
| (2) | UNSIGNED | 1 | TABADVB | Index in XKERAY of Adverb |
| (3) | CHARACTER | 3 | TABOPND | Syntax of STMT : |
| (3) | BITSTRING | 1 | TABOPFLG | See operand |
| (4) | HALFWORD | 2 | TABOP | declaration |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------|
| Verb parameters for code generation. E.G. TABPA(1)=Entry name TABPA(2)=Function code See declaration of PARITEM for Verb parameter string | | | | |
| (6) | UNSIGNED | 1 | TABPA (2) | Index in XVBPA |
| (8) | CHARACTER | | TABEND | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 1 | * | |
| | 1111 | | VBADVIDX | must not be affected |
| | 1... | | SECNDTAB | Indicates indirection |
| |1.. | | SAMEVERB | Rescan second TAB using same atom |
| |1. | | USEEITBS | Rescan DFHEITBS using same atom |
| |1 | | * | Reserved |

Standard text:
 This is to be included at the head of every preprocessed program by module DFHEIM10.
 The number of lines of standard text is NSTTS

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 71 | XSTT1 | First standard text line |
| (0) | CHARACTER | 1 | * | Filler - Always blank |
| (1) | CHARACTER | 62 | STT1 | Text to be inserted into program |
| (3F) | CHARACTER | 8 | STTC | Language indicators |

XKERAY: Table of keyword names and keyword parameters.
 This array is indexed by terminal nodes in syntax tree.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | 22 | XKERAY (256) | |
| (0) | CHARACTER | 12 | KEYWORDA | |
| (C) | CHARACTER | 10 | * | Dependant on XKEITEM size * |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 22 | XKEITEM | |
| (0) | CHARACTER | 12 | KEYWORD | Keyword name |
| (C) | CHARACTER | 1 | KEFLG1 | Collection of flags |
| | 1... | | KEREPEAT | Keyword may be repeated |
| | .1.. | | KEARGOM | ARGLIST may be omitted entirely |
| | ..1. | | KEARGSH | ARGLIST may be shortened |
| | ...1 | | KEARGNU | Any ARGS may be null |
| | 1... | | KEARGFI | First argument mandatory |
| |1.. | | KEQUIV | KEP(1) gives equivalent text |
| |1. | | KESECND | Second keyword of a double |
| |1 | | KETIME | Time type of argument |
| (D) | CHARACTER | 1 | KEBITS | Keyword flags |
| | 111. | | KEPNUM | KEP numeric, not index in XKEPA |
| | ...1 | | KECOMM | Keyword valid for any command |
| | 1... | | KEDEFT | Keyword is a default |
| |1.. | | KEARGSYN | Keyword arguments -KEDTYP,KEDTYPL and KEP(1) are a syntax operand |
| |1. | | KERELSYN | Relax syntax constraint * |
| |1 | | * | Reserved |
| (E) | BITSTRING | 1 | KEFLAGS | Set by flag option on keyword |

input. See overlay below.

| | | | | |
|------|-----------|---|---------|--|
| (F) | CHARACTER | 1 | KETYPE | |
| | 1... | | KEREF | ARGS all references |
| | .1.. | | KEID | ARGS all identifiers |
| | ..1. | | KECONST | ARGS constants - Use also KEDTYP |
| | ...1 1... | | KADIM | Dimensionality (00 means Scalar) |
| |1.. | | KEUSED | 'USES' Context |
| |1. | | KESET | 'SETS' Context |
| |1 | | KENAME | Add quotes if identifier. Note: KEDTYP may imply more |
| (10) | UNSIGNED | 1 | KENARG | max number of arguments * |
| (11) | BITSTRING | 1 | KEDTYP | Data type - KEDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (12) | UNSIGNED | 1 | KEDTYPL | Length of datatype |
| (13) | UNSIGNED | 1 | KEP (3) | KEYQUIV1 or code gen parameters * |
| (16) | CHARACTER | | KEEND | End of KEINFO |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | 1 | * | |
| | 1... .. | | KEHEX | Display in hexadecimal (EDF) |
| | .1.. .. | | KELIST | Argument may be a list (MT) |
| | ..1. | | KETUNOFF | T#BITNUM bit to be turned off, not on |
| | ...1 | | KE2BIT | KEP(3) is another bit to be turned on. This bit off means KEP(3) is default arg text. |
| | 1... | | KEINQO | Only valid with inquire (MT) |
| |1.. | | KESETO | Only valid with set (MT) |
| |1. | | KEARGMAN | Mandatory argument |
| |1 | | KEDUMMY | Dummy keyword |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | 16 | XKEITEM1 | Overlay of XKEITEM |
| (0) | CHARACTER | 12 | KEYWORD1 | Keyword name |
| (C) | BITSTRING | 4 | KEFLGS | Keyword flags |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | 100 | PARITEM | |
| (0) | UNSIGNED | 1 | PALEN | Length of PARM, excl this byte |
| (1) | CHARACTER | 99 | PARM | Text of PARM |

This section describes the structure of BIF entries defined
Because they are variable size they are chained together via
the BIFNEXT field. The anchor of the chain is BIFXPTR in the
header to this table.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-------|-----------------|---------------------------|
| (0) | STRUCTURE | 17021 | BIFENTRY | |
| (0) | CHARACTER | 12 | BIFNAME | 'DFHDATASET', etc. |
| (C) | BITSTRING | 1 | BIFFLAGS | Reserved * |
| (D) | ADDRESS | 4 | BIFNEXT | 0 for last in chain * |
| (11) | FULLWORD | 4 | BIFNEQUS | Number of CVDA'S |
| (15) | CHARACTER | 17 | BIFEQUSA (1000) | ACTUALLY BIFNEQUS XTENT * |
| (15) | CHARACTER | 12 | BIFARG | 'ENABLED', etc. |
| (21) | FULLWORD | 4 | BIFCVDA | 128,129, etc. |
| (25) | BITSTRING | 1 | BIFCVDFL | Reserved * |

XSYNTAX: Format of each node in the XSYNTAX structure is
given by the SY structure below.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 7 | SY | A node in the syntax tree |
| (0) | CHARACTER | 1 | OPCODE | 'I' (Or) 'J' (Join) 'R' (Repeat) - Unary OP |
| (1) | CHARACTER | 3 | OPERAND1 | First arm of the node |
| (1) | CHARACTER | 1 | OP1FLG | OPERAND1 Flags |
| | 1... .. | | OP1SYNI | OPERAND1 is offset in XSYNTAX |
| | .1.. .. | | OP1KE | OPERAND1 is index in XKERAY |
| | ..1. | | OP1NULL | OPERAND1 is null |
| | ...1 | | OP1OPL | OPERAND1 is optional |
| | 1... | | OP1PAREN | OPERAND1 is parenthesized |
| |111 | | * | Reserved |
| (2) | HALFWORD | 2 | OP1 | Operand 1 |
| (4) | CHARACTER | 3 | OPERAND2 | Secodn arm of the node |
| (4) | CHARACTER | 1 | OP2FLG | OPERAND2 flags |
| | 1... .. | | OP2SYNI | OPERAND2 is offset in XSYNTAX |
| | .1.. .. | | OP2KE | OPERAND2 is index in XKERAY |
| | ..1. | | OP2NULL | OPERAND2 is null |
| | ...1 | | OP2OPL | OPERAND2 is optional |
| | 1... | | OP2PAREN | OPERAND2 is parenthesized |
| |111 | | * | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------|-------------|
| (5) | HALFWORD | 2 | OP2 | Operand 2 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------|
| (0) | STRUCTURE | 7 | SY1 | Overlay of SY |
| (0) | CHARACTER | 1 | OPCODE1 | See OPCODE |
| (1) | BITSTRING | 1 | OP1FLAGS | See OP1FLG |
| (2) | HALFWORD | 2 | OP11 | See OP1 |
| (4) | BITSTRING | 1 | OP2FLAGS | See OP2FLG |
| (5) | HALFWORD | 2 | OP21 | See OP2 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 3 | OPERAND | General purpose operand, i.e. overlays OPERAND1 or OPERAND2 |
| (0) | CHARACTER | 1 | OPFLG | Operand flags |
| | 1... .. | | OPSYNI | OP is an index into the syntax tree * |
| | .1.. .. | | OPKE | OP is an index into the keywords array * |
| | ..1. | | OPNULL | Indicates a null operand |
| | ...1 | | OPOPL | Indicates an optional operand |
| | 1... | | OPPAREN | Indicates a parenthesized operand |
| |111 | | * | Filler - See OPERAND1 or OPERAND2 |
| (1) | HALFWORD | 2 | OP | An index |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 16 | XCOMROOT | |
| (0) | ADDRESS | 4 | COMXPTR | |
| (4) | FULLWORD | 4 | NUMCMD5 | Commands |
| (8) | ADDRESS | 4 | KEYXPTR | |
| (C) | FULLWORD | 4 | NUMKYS | arguments/keywords |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 6 | COMINFO | |
| (0) | CHARACTER | 2 | COMFN | Function code |
| (2) | UNSIGNED | 1 | COMARG0LN | Length of arg0 - may be 0 |
| (3) | UNSIGNED | 1 | COMKEYS | Number of keywords |
| (4) | HALFWORD | 2 | COMIND | index of first |
| (6) | CHARACTER | | COMEND | |

Table Entry: Describes one command for ICCFCTAB

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 52 | DTCINFO | |
| (0) | CHARACTER | 24 | DTCARG0 | Arg0 |
| (18) | HALFWORD | 2 | DTCKEYS | Number of keywords |
| (1A) | HALFWORD | 2 | DTCIND | index of first |
| (1C) | CHARACTER | 12 | DTCVERB | |
| (28) | CHARACTER | 12 | DTCADVB | |
| (34) | CHARACTER | | DTCEND | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 15 | KEYITEM | |
| (0) | UNSIGNED | 1 | KEYCODE | Type of keyword - see the code |
| (1) | UNSIGNED | 1 | KEYBIT1 | bit to test |
| (2) | UNSIGNED | 1 | KEYBIT2 | bit to test |
| (3) | UNSIGNED | 1 | KEYARG | argument number |
| (4) | UNSIGNED | 1 | KEYARGL | Length of datatype |
| (5) | BITSTRING | 1 | KEYDTYP | Data type - KEYDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float |
| (6) | CHARACTER | 9 | KEYEND1 | End of KEYITEM for DFHEITTR |
| (F) | CHARACTER | | KEYEND2 | End of KEYITEM for DFHEITT1 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 12 | KEYITEMO | |
| (0) | FULLWORD | 4 | KEYARGO | Arg offset |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (4) | FULLWORD | 4 | KEYWORDO | Word offset |
| (8) | BITSTRING | 4 | KEYBITM | Bit mask |
| (C) | CHARACTER | | KEYENDO | End of KEYITEM for DFHEITHG |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 24 | KEYDTC | |
| (0) | HALFWORD | 2 | KEYNUMD | Number |
| (2) | CHARACTER | 22 | KEYSAVED | data |
| (2) | CHARACTER | 12 | KEYWORDD | |
| (E) | CHARACTER | 10 | KEYDATAD | |
| (18) | CHARACTER | | KEYENDD | End of KEYITEM for ICCFCTAB |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------|-------------|
| 1 | DECIMAL | 255 | STOPPER | |

EIPDS Command level interface dsects

CONTROL BLOCK NAME = DFHEIPDS
 DESCRIPTIVE NAME = CICS COMMAND LEVEL INTERFACE DSECTS
 FUNCTION = This copybook contains the DSECTS used by all of the separate parts of the EXEC interface.
 These are the DSECTS used by all of the separate parts of the EXEC interface.
 Handle condition and handle aid label table DSECTS.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | | | EIL | HANDLE CONDITION LABEL TABLE |
| (0) | ADDRESS | 4 | EILBEG (0) | A(1ST LABEL ENTRY IN TABLE) |
| (0) | ADDRESS | 4 | EILFCHNP | A(next free label table) |
| (4) | HALFWORD | 2 | EILLEN | LENGTH OF LABEL TABLE |
| (6) | BITSTRING | 1 | EILINDEX | INDEX TO LABEL ENTRIES |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (0) | | | EILLAB | LABEL ENTRY |
| (0) | BITSTRING | 1 | EILLAB1F | FLAG BYTE 1 |
| | 1111 1111 | | EILL1ON | "X'FF" .. ON |
| | 1... .. | | EILL1SA | "X'80" .. SYSTEM ACTION |
| | .1.. .. | | EILL1IG | "X'40" .. IGNORE |
| (1) | BITSTRING | 1 | EILLAB2F | FLAG BYTE 2 |
| |1.. | | EILL2COB | "EISCOBOL" .. COBOL PROGRAM |
| |1. | | EILL2PLI | "EISPLI" .. PLI PROGRAM |
| | 1.. | | EILL2ASM | "EISASM" .. ASSEMBLER PROGRAM |
| (2) | BITSTRING | 1 | EILLABPM | PROGRAM MASK FOR MVS/811 |
| (3) | BITSTRING | 1 | EIL_CONDITION_EXECKEY | Instantaneous execution key when Handle_Condition_Label executed .. first 4 bits only |
| (4) | FULLWORD | 4 | EILLAB1 | 4 BYTES FOR ASM,COBOL,RPG |
| (8) | FULLWORD | 4 | EILLAB2 | 8 BYTES FOR PL/I |
| | 11.. | | EILLEN | "*-EILLAB" TABLE ENTRY LENGTH |

REGISTER SAVE AREA DSECT FOR COBOL HANDLE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | | | EIR | COBOL HANDLE CONDITION RSA |
| (0) | ADDRESS | 4 | EIRBEG (0) | START OF DATA |
| (0) | CHARACTER | 60 | EIR14 | REGS 14 THRU 12 |
| (3C) | ADDRESS | 4 | EIR13 | REG 13 |
| (40) | BITSTRING | 1 | EIREND (0) | |

This DSECT describes the storage which is used to pass the COMMAREA from one command-level transaction to another using an EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------|--|
| (0) | | | DFHEICDS | COMMAREA STORAGE DSECT |
| (0) | BITSTRING | 1 | EIC (0) | |
| (0) | BITSTRING | 1 | EICBEG (0) | START OF DATA |
| (0) | FULLWORD | 4 | EIC_COMMAREA_ ADDRESS | |
| (4) | BITSTRING | 1 | EIC_SUBPOOL | A(EICBDA) |
| |1 | | EIC_APCOMM31 | COMMAREA SUBPOOL FLAG "1" APCOMM31 CICS KEY SUBPOOL |
| (5) | BITSTRING | 3 | | RESERVED |
| (8) | FULLWORD | 4 | | RESERVED |
| (C) | HALFWORD | 2 | EICLL | COMMAREA LENGTH |
| (E) | HALFWORD | 2 | EICBB | RESERVED (MVS) |
| (10) | BITSTRING | 1 | EICDBA (0) | COMMAREA DATA |

Data interchange DSECT used to pass information from user to DIP in the format required by DIP

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------|
| (0) | | | EII | DATA INTERCHANGE DSECT |
| (0) | FULLWORD | 4 | (2) | STORAGE ACCOUNTING |
| (8) | BITSTRING | 1 | EIIBEG (0) | START OF DATA |
| (8) | BITSTRING | 1 | EIIDESL | DESTIDLENG |
| (9) | CHARACTER | 8 | EIIDES | DESTID |
| (11) | BITSTRING | 1 | EIIVOLL | VOLUMELENG |
| (12) | CHARACTER | 6 | EIIVOL | VOLUME |
| (18) | BITSTRING | 1 | EIIKEYL | KEYLENGTH |
| (19) | CHARACTER | 64 | EIIKEY | RIDFLD |
| (59) | BITSTRING | 1 | EIIEND (0) | |

Arg list DSECT overlays the argument list from the application

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|--------------------------|
| (0) | | | EIA | EXEC ARGUMENT LIST DSECT |
| (0) | ADDRESS | 4 | EIAARG0 | ARGUMENT 0 |
| (4) | ADDRESS | 4 | EIAARG1 | 1 |
| (8) | ADDRESS | 4 | EIAARG2 | 2 |
| (C) | ADDRESS | 4 | EIAARG3 | 3 |
| (10) | ADDRESS | 4 | EIAARG4 | 4 |
| (14) | ADDRESS | 4 | EIAARG5 | 5 |
| (18) | ADDRESS | 4 | EIAARG6 | 6 |
| (1C) | ADDRESS | 4 | EIAARG7 | 7 |
| (20) | ADDRESS | 4 | EIAARG8 | 8 |
| (24) | ADDRESS | 4 | EIAARG9 | 9 |
| (28) | ADDRESS | 4 | EIAARG10 | 10 |
| (2C) | ADDRESS | 4 | EIAARG11 | 11 |
| (30) | ADDRESS | 4 | EIAARG12 | 12 |
| (34) | ADDRESS | 4 | EIAARG13 | 13 |
| (38) | ADDRESS | 4 | EIAARG14 | 14 |
| (3C) | ADDRESS | 4 | EIAARG15 | 15 |
| (40) | ADDRESS | 4 | EIAARG16 | 16 |

DSECT representing items pushed by EXEC CICS PUSH
 Chain of these is anchored at EISPUSTK

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------|----------------------------|
| (0) | | | EIU | , STACK FOR EXEC CICS PUSH |
| (0) | ADDRESS | 4 | EIUCHAIN | CHAIN TO PREVIOUS EIU |
| (4) | FULLWORD | 4 | EIUERTAB | STACKED EISERTAB |
| (8) | FULLWORD | 4 | EIUKYTAB | STACKED EISKYTAB |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|---------------------------|
| (C) | FULLWORD | 4 | EIUSXRSA | STACKED EISSXRSA |
| (10) | FULLWORD | 4 | EIUSXD | STACKED EISSXD |
| (14) | FULLWORD | 4 | EIUSXDI | STACKED EISSDI |
| (18) | FULLWORD | 4 | EIUPCXRA | STACKED TCAPCXRA |
| (1C) | BITSTRING | 1 | EIUPCAXI | STACKED TCAPCAXI |
| (1D) | BITSTRING | 1 | EIUFLAG6 | STACKED EISFLAG6 |
| (1E) | BITSTRING | 1 | EIUFLAG7 | STACKED EISFLAG7 |
| (1F) | BITSTRING | 1 | EIUXLANG | STACKED EISXLANG |
| (20) | BITSTRING | 1 | EIU_ABEND_EXECKEY | STACKED EIS_ABEND_EXECKEY |
| (21) | BITSTRING | 1 | (7) | Reserved |
| | ..1. 1... | | EIULEN | "*-EIUCHAIN" |

ARG0 descriptor overlays argument 0 in the argument list from the application

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|--|
| (0) | | | EID | EXEC CICS ARGUMENT ZERO |
| (0) | CHARACTER | 2 | EIDFN (0) | FUNCTION GROUP AND FUNCTION |
| (0) | CHARACTER | 1 | EIDGROUP (0) | FUNCTION GROUP |
| | ..1. .1.. | | EIDDLIGP | "X'44" EXEC DLI |
| | ..1. .1.. | | EIDGDGP | "X'24" EXEC CICS GDS |
| | ...1 .11. | | EIDSPGP | "X'16" EXEC CICS SYNCPOINT & RESYNC |
| |1.. | | EIDTCGP | "X'04" EXEC CICS TERMINAL CONTROL |
| | ...1 1... | | EIDBMSGP | "X'18" EXEC CICS BMS |
|  | .... .... |  | EIDICGP | "X'10" EXEC CICS INTERVAL CONTROL |
|  | .... .... |  | EIDRMGP | "X'00" RESOURCE MANAGER |
| (0) | CHARACTER | 1 | EIDOPT0 | OPTION BYTE ZERO |
| (1) | CHARACTER | 1 | EIDFUNC (0) | FUNCTION |
| |1. | | EIDDLIN | "X'02" EXEC DLI INIT CALL |
| |1. | | EIDSYNCP | "X'02" EXEC CICS SYNCPOINT |
| |1. | | EIDRECV | "X'02" RECEIVE |
| |11. | | EIDCONV | "X'06" CONVERSE |
| |1.. | | EIDSEND | "X'04" SEND |
| |1.. | | EIDRECVMAP | "X'02" RECEIVE MAP |
| |1.. | | EIDSENDMAP | "X'04" SEND MAP |
| |11. | | EIDSENDTEXT | "X'06" SEND TEXT |
| | 111. | | EIDRECVPARTN | "X'0E" RECEIVE PARTN |
| | ...1 .1.. | | EIDSENDCONTROL | "X'12" SEND CONTROL |
| | 1... | | EIDSTART | "X'08" START |
| | 1.1. | | EIDRETRIEVE | "X'0A" RETRIEVE |
| | 1... | | EIDCANCEL | "X'08" CANCEL |
| |1.. | | EIDRSYNC | "X'04" EXEC CICS RESYNC |
| | ...1 .1.. | | EIDDISC | "X'14" ISSUE-DISCONNECT |
| | ...1 1... | | EIDEAU | "X'18" ISSUE-ERASEAUP |
| | ...1 11.. | | EIDPRINT | "X'1C" ISSUE-PRINT |
| | ..1. | | EIDALLOC | "X'20" ALLOCATE |
| | ..1. .1.. | | EIDFREE | "X'22" FREE |
| | 1... | | EIDPRVFN | "X'80" >=X'80' MEANS 'HIDDEN-ARGO-CALLS', ELSE DL/I-STYLE. |
| (1) | CHARACTER | 1 | EIDOPT1 | OPTION BYTE 1 |
| |1.. | | EIDCOND | "X'04" |
| (2) | CHARACTER | 3 | EIDEXIST (0) | ARGUMENT EXISTENCE BITS |
| (2) | CHARACTER | 1 | EIDOPT2 | OPTION BYTE 2 |
| | ..1. | | EIDCOMM | "X'40" COMMAREA specified |
| |1.. | | EIDDATA | "X'04" DATALENGTH specified |
| |1 | | EIDTRAN | "X'01" TRANSID specified |

The following equates relate only to 'hidden arg0 calls', ie where EIDGROUP = X'00' and EIDFUNC >= X'80'.

| | | | | |
|--|-----------|--|---------|--|
| | 1... | | EIDNCAL | "X'80" RM NOT TO BE CALLED |
| | ..1. | | EIDELUW | "X'40" LAST CALL IN LUW |
| | ..1. | | EIDRRMA | "X'20" RETURN (DON'T ABEND) IF RES-MGR NOT ACTIVE. |
| | ...1 | | EIDACAL | "X'10" ALL RM'S TO BE CALLED |
| |1. | | EIDSOTR | "X'02" FIRST CALL IN TASK |
| |1 | | EIDEOTR | "X'01" LAST CALL IN TASK |

End of hidden arg 0 call equates

| | | | | |
|-----|-----------|---|----------|---|
| (3) | CHARACTER | 1 | EIDOPT3 | OPTION BYTE 3 |
| (4) | CHARACTER | 1 | EIDOPT4 | OPTION BYTE 4 |
| | 1... | | EIDSYEIB | "X'80" TRANSLATED USING THE SYSEIB OPTION |
| | ..1. | | EIDNOEDF | "X'40" NOEDF |
| | ..1. | | EIDNOHAN | "X'20" NOHANDLE |
| (5) | CHARACTER | 1 | EIDOPT5 | OPTION BYTE 5 |
| |1 | | EIDSET | "X'01" SET |
| |1. | | EIDNEXT | "X'02" NEXT |
| |1.. | | EIDPSBKR | "X'02" PASSBK ON RECEIVE |
| |1.. | | EIDMASSI | "X'04" MASSINSERT |
| | 1... | | EIDTOL31 | "X'80" 31 BIT LENGTH IN TC ARG2 |
| | ..1. | | EIDFML31 | "X'40" 31 BIT LENGTH IN TC ARG4 |
| | ..1. | | EIDMXL31 | "X'20" 31 BIT LENGTH IN TC ARG9 |
| | ...1 | | EIDNTRNC | "X'10" TC NOTRUNCATE OPTION |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|-------------|----------------------------------|
| | 1... .. | | EIDTPN32 | "X'80" TPNs > 32 chars are valid |
| | .1.. .. | | EIDTROFF | "X'40" TRACE OFF |
| | ...1 .. | | EIDTRLST | "X'10" TRACE LIST |
| | ... 1.. | | EIDTRSIN | "X'08" TRACE SINGLE |
| |1.. | | EIDTRSYS | "X'04" TRACE SYSTEM |
| |1. | | EIDTRUSE | "X'02" TRACE USER |
| |1 | | EIDTRALL | "X'01" TRACE ALL |
| |1.. | | EIDMSDEF | "X'04" BMS DEFAULT |
| |1. | | EIDMSALT | "X'02" BMS ALTERNATE |
| (6) | CHARACTER | 1 | EIDOPT6 | OPTION BYTE 6 |
| | 1... .. | | EIDCONFM | "X'80" TC CONFIRM OPTION |
| | 1... .. | | EIDRBA | "X'80" RBA |
| | 1... .. | | EIDSYNC | "X'80" SYNCONRETURN specified |
| | 1... .. | | EIDRTST | "X'80" Routable START |
| | .1.. .. | | EIDGENER | "X'40" GENERIC |
| | ..1. | | EIDGTEQ | "X'20" GTEQ |
| |1. | | EIDPROT | "X'02" PROTECT |
| |1 | | EIDNOCHK | "X'01" NOCHECK |
| | .1.. .. | | EIDTCDEF | "X'40" TC DEFAULT |
| | ..1. | | EIDTCALT | "X'20" TC ALTERNATE |
| (7) | CHARACTER | 1 | EIDOPT7 | OPTION BYTE 7 |
| | 1.. | | EIDSGST | "X'08" SEGSET |
| |1. | | EIDUPDT | "X'04" UPDATE |
| |1. | | EIDREWR | "X'04" REWRITE |
| | 1.. | | EIDITEM | "X'08" ITEM |
| | ..1. | | EIDICHDR | "X'20" IC HEADER |
| | ...1 | | EIDICPUT | "X'10" START WITH DATA |
| | ...1 | | EIDSHRD | "X'10" GETMAIN SHARED |
| | 1... ..1.1 | | EIDTERM | "X'85" GETMAIN TERMINAL class |
| (8) | CHARACTER | 8 | EIDRMID (0) | RESOURCE MANAGER ID |
| (8) | CHARACTER | 1 | EIDOPT8 | OPTION BYTE 8 |
|  | .... .... |  | EIDCANCL | "X'00" CANCEL (DEFAULT) |
| |1. | | EIDLABEL | "X'02" LABEL |
| |1 | | EIDPROG | "X'01" PROGRAM |
| |1 | | EIDTCWRI | "X'01" TC SEND / CONVERSE |
| |1. | | EIDWT | "X'04" WAIT |
| (9) | CHARACTER | 1 | EIDOPT9 | OPTION BYTE 9 |
| | ...1 | | EIDRRN | "X'10" RRN |
| (A) | CHARACTER | 1 | EIDOPT10 | OPTION BYTE 10 |
| | 11.. | | EIDMAPO | "X'C0" MAPONLY |
| | 1... .. | | EIDBUF | "X'80" BUFFER |
| | ... 1.. | | EIDWAIT | "X'08" WAIT |
| (B) | CHARACTER | 1 | EIDOPT11 | OPTION BYTE 11 |
| |1. | | EIDPSBKW | "X'04" PASSBK ON SEND |
| (C) | CHARACTER | 1 | EIDOPT12 | OPTION BYTE 12 |
| | ...1 | | EIDFMH | "X'10" FMH |
| | ...1 | | EIDRTAIN | "X'10" RETAIN |
| | 1.. | | EIDLAST | "X'08" LAST |
| | 1.. | | EIDRLSE | "X'08" RELEASE |
| (D) | CHARACTER | 1 | EIDOPT13 | OPTION BYTE 13 |
| (E) | CHARACTER | 1 | EIDOPT14 | OPTION BYTE 14 |
| | ...1 | | EIDSTRF | "X'10" STRUCTURED FIELD |
| |1. | | EIDNVIT | "X'02" INVITE |
| (F) | CHARACTER | 1 | EIDOPT15 | OPTION BYTE 15 |
| (10) | CHARACTER | 8 | EIDLNNO (0) | LINE NUMBER |
| (10) | CHARACTER | 1 | EIDOPT16 | OPTION BYTE 16 |
| (11) | CHARACTER | 1 | EIDOPT17 | OPTION BYTE 17 |
| (12) | CHARACTER | 1 | EIDOPT18 | OPTION BYTE 18 |
| (13) | CHARACTER | 1 | EIDOPT19 | OPTION BYTE 19 |
| (14) | CHARACTER | 1 | EIDOPT20 | OPTION BYTE 20 |
| (15) | CHARACTER | 1 | EIDOPT21 | OPTION BYTE 21 |
| (16) | CHARACTER | 1 | EIDOPT22 | OPTION BYTE 22 |
| (17) | CHARACTER | 1 | EIDOPT23 | OPTION BYTE 23 |
| (18) | CHARACTER | 1 | EIDOPT24 | OPTION BYTE 24 |
| (19) | CHARACTER | 1 | EIDOPT25 | OPTION BYTE 25 |
| (1A) | CHARACTER | 1 | EIDOPT26 | OPTION BYTE 26 |
| (1B) | CHARACTER | 1 | EIDOPT27 | OPTION BYTE 27 |

EIS EXEC interface structure

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|-------------|
| (0) | | | DFHEISDS | |

CONTROL BLOCK NAME = DFHEISDS
 DESCRIPTIVE NAME = CICS EXEC Interface Structure.
 FUNCTION =
 This copybook describes the system part of the EXEC Interface storage (EIS). It does not contain a DSECT statement and it is normally invoked by DFHEIS. See this macro for reasons and details.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------|
| (0) | HALFWORD | 2 | EIS_LENGTH | >Length of EIS |
| (2) | CHARACTER | 6 | EIS_EYE | >EIS eye catcher |

TASK LIFETIME STORAGE

The following storage is used to hold information which has the same lifetime as the task
 The following word is required at offset 8 by GDDM

| | | | | |
|------|-----------|----|-------------------|--|
| (8) | ADDRESS | 4 | EIS_USER_EIB_ADDR | Address of 'User' EIB |
| (C) | ADDRESS | 4 | EISEIPB9 | SAVE EIP BASE REG 9 |
| (10) | ADDRESS | 4 | EISTCTTE (0) | A(TCTTE) for terminal/LU specified in current TC cmd. |
| (10) | ADDRESS | 4 | EISTCTSE | A(TCTSE) specified in ALLOCATE |
| (14) | ADDRESS | 4 | EISEDFTA | A(EDF display term.) in 2-term debug |
| (18) | ADDRESS | 4 | (0) | |
| (18) | CHARACTER | 18 | EISTRDATA (0) | Data for TRACE_PUT |
| (18) | CHARACTER | 8 | EISTRFLDAB (0) | Field A and B |
| (18) | CHARACTER | 4 | EISTRFLDA | Field A |
| (1C) | CHARACTER | 4 | EISTRFLDB | Field B |
| (20) | CHARACTER | 8 | EISTRRES | Resource name |
| (28) | CHARACTER | 2 | EISTRREQ (0) | Request bytes |
| (28) | CHARACTER | 1 | EISTRREQ1 | Request byte 1 |
| (29) | CHARACTER | 1 | EISTRREQ2 | Request byte 2 |
| (2C) | ADDRESS | 4 | EISATABN | Saved table entry pointer to avoid subsequent lookup. Also used for this by CAU. |
| (30) | ADDRESS | 4 | EISCAHCB | HEAD OF CHAIN OF ATTACH HEADER CONTROL BLOCKS |
| (34) | ADDRESS | 4 | EISEDFDL | DEBUG LINKAGE |
| (38) | BITSTRING | 1 | EISFLAG2 | SOME ACTIVE HANDLE CONDS |
| | | | 1... .. | EISRDATT |
| | | | .1. | EISWRBRK |
| | | | .1. | EISEOF |
| | | | ...1 | EISNOSPA |
| | | | 1... | EISQBUSY |
| | | |1. | EISNOSTG |
| | | |1. | EISNQBSY |
| | | |1 | EISNOJBS |
| (39) | BITSTRING | 1 | EISFLAG3 | "X'80" NOJBUFSP |
| | | | 1... .. | EISIGNAL |
| | | | .1. | EISOFLOW |
| | | | .1. | EISYSBSY |
| | | | ...1 | EISESBSY |
| (3A) | BITSTRING | 1 | EISFLAG5 | "X'80" SESSBUSY |
| | | | 1... .. | EISIN1 |
| | | | .1. | EISLERR |
| | | | .1. | EISRECF |
| | | | ...1 | EISRECU |
| | | | 1... | EISRETRY |
| | | |1. | EISTWAIT |
| | | |1. | EISTAID |
| | | |1 | EISSPCIN |
| (3B) | BITSTRING | 1 | EISDRESP | "X'80" 1 FOR FIRST RECEIVE OVER |
| (3C) | BITSTRING | 1 | EISFLAG4 | "X'40" 1 FOR LENGERR TO BE RAIS |
| | | | 1... .. | EISABDMP |
| | | | .1. | EISRUTER |
| | | | .1. | EISQRECV |
| | | | ...1 | EISQMAIN |
| | | | 1... | EIS_LOWER_ |
| | | | | LEVEL_ABenDED |
| | | |1. | EISEDfSE |
| (3D) | BITSTRING | 1 | EISEDfDM | "X'08" A user program at a lower link-level has abended previously |
| | | | 1... .. | EISEDfDO |
| | | | .1. | EISEDfST |
| | | | .1. | EISEDfX |
| | | | ...1 | EISABNDG |
| (3E) | CHARACTER | 2 | | "X'04" User task security initialized |
| (40) | ADDRESS | 4 | EISTIOA | EDF DEBUG MODE |
| | | | | "X'80" DEBUG ON |
| | | | | "X'40" SEPARATE TERMINAL |
| | | | | "X'20" I/O ISSUED BY EDFX |
| | | | | "X'10" EDFX has issued an abend |
| | | | | Reserved |
| | | | | A(TIOA below the line) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------------|---------------------------------|
| (44) | FULLWORD | 4 | EISTIOAL | length of below the line TIOA |
| (48) | FULLWORD | 4 | EISUPERC | super-link level count for RMI |
| (4C) | ADDRESS | 4 | EISEXITT | Task token for user exit |
| (50) | ADDRESS | 4 | EIS_SYS_EIB_ADDR | address of 'System' EIB |
| (54) | ADDRESS | 4 | EISEIPB8 | Save DFHEIP Base Reg 8 |
| (58) | ADDRESS | 4 | EISTRACE | Level 2 trace |
| (5C) | FULLWORD | 4 | EISSAVE0 | R0 save area for GETMAIN/FREEM. |
| (60) | ADDRESS | 4 | EISSAVE1 | R1 save area for GETMAIN/FREEM. |
| (64) | ADDRESS | 4 | EISSAVE6 | R6 save area for GETMAIN/FREEM. |
| (68) | ADDRESS | 4 | EISSAVE7 | R7 save area for GETMAIN/FREEM. |

PROGRAM LIFETIME STORAGE

The following storage is used to hold information which has the same lifetime as the current program

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (6C) | HALFWORD | 2 | EISCSETL | data length (no trunc) for read set |
| (6E) | CHARACTER | 1 | EISENILT | ENTRY NO. IN LABEL TABLE |
| (6F) | CHARACTER | 1 | | Reserved |
| (70) | ADDRESS | 4 | EISRET | SUBROUTINE RETURN ADDRESS |
| (74) | ADDRESS | 4 | | Reserved for Service |

COMMAND LIFETIME STORAGE

The following storage is used to hold information which has the same lifetime as the current command

| | | | | |
|------|-----------|----|----------|--------------------------------|
| (78) | CHARACTER | 12 | EISTCACA | SAVE AREA FOR TCACCCA |
| (84) | CHARACTER | 4 | EISSYSNM | name of sys. holding resrce. |
| (88) | HALFWORD | 2 | EISCKEYL | key length for current request |
| (8A) | HALFWORD | 2 | | Reserved |
| (8C) | ADDRESS | 4 | EISTEMP | TEMPORARY R14 SLOT |
| (90) | ADDRESS | 4 | EISTEMP2 | TEMPORARY R14 SLOT |
| (94) | ADDRESS | 4 | EISTEMP3 | TEMPORARY R14 SLOT |
| (98) | ADDRESS | 4 | EISTEMP4 | TEMPORARY R14 SLOT |
| (9C) | BITSTRING | 1 | EISEDFRB | EDF REQUEST/REPLY BYTE |

REQUEST BITS

| | | |
|-----------|----------|--------------------------------|
| 1... .. | EISEDFRQ | "X'80" EXEC REQUEST |
| .1. | EISEDFRS | "X'40" EXEC RESPONSE |
| .1. | EISEDFIN | "X'20" INITIALIZATION |
| ...1 | EISEDFPT | "X'10" PROGRAM TERMINATION |
| 1... | EISEDFTT | "X'08" TASK TERMINATION |
|1. | EISEDFAB | "X'04" ABEND |
|1. | EISEDFAC | "X'02" ABNORMAL CONDITION |
|1 | EISEDFRE | "X'01" PLIST-REFORMAT REQUIRED |

REPLY BITS

| | | | | |
|-----------|-----------|-----------------------------|------------------|--|
| 1... .. | EISEDFFA | "X'80" FORCED ABEND | | |
| .1. | EISEDFUA | "X'40" USER ABEND | | |
| .1. | EISEDFUW | "X'20" USER ABEND WITH DUMP | | |
| ...1 | EISEDFUD | "X'10" USER DUMP | | |
| 1... | EISEDFCA | "X'08" CATASTROPHIC ABEND | | |
| (9D) | BITSTRING | 1 | EIS_TEMP_EXECKEY | Instantaneous execution key store for fastpath getmain calls |
| (9E) | CHARACTER | 2 | | Reserved |

START OF STACKED STORAGE

The following storage up to EISUPERB is stacked across links. The length of the stacked storage is held in EISTACKL. Fields from here to EISRETP are RUN-UNIT local.

| | | | | |
|------|---------|---|--------------|--|
| (A0) | ADDRESS | 4 | EISTACKA (0) | |
| (A0) | ADDRESS | 4 | | Reserved for Service |
| (A4) | ADDRESS | 4 | EIS_EID_SAVE | Save EID address when calling PL/I Abnormal Goto routine |
| (A8) | ADDRESS | 4 | EISRUSTG | RUN UNIT LOCAL STORAGE ADDRESS |
| (AC) | ADDRESS | 4 | EISERMSA | EDF/DLI ADDR EDF DISPLAY DATA |

NOTE: THE FOLLOWING FIELD IS USED BY DFHEIP TO SAVE A RETURN ADDRESS BEFORE ISSUING AN "ABNORMAL GOTO OUT-OF-BLOCK" CALL TO THE PL/I TERMINATION ROUTINE.

| | | | | |
|-----------|-----------|---|-------------------|--|
| (B0) | ADDRESS | 4 | EISRETP | SAVE A LOCAL RETURN ADDRESS |
| (B4) | ADDRESS | 4 | EIS_PLB_ADDRESS | Addr(Program Language Block) |
| (B8) | ADDRESS | 4 | EIS_APLI_SAVEAREA | Addr(DFHAPLI's registers on giving up control) |
| (BC) | ADDRESS | 4 | EISASTG | A(WS) FOR COBOL ONLY |
| (C0) | CHARACTER | 2 | EIS_PROGRAM_MODE | TCB MODE for application program |
| (C2) | BITSTRING | 1 | EISAPM | APPLICATION PROGRAM MASK |
| (C3) | BITSTRING | 1 | EISFLAG8 | |
| 1... .. | EISSRPAB | "X'80" TCAAAM SET IN EDFX-SRP ISSUED ABND | | |
| .1. | EISEDFRM | "X'40" INDICATE EDF INVOKED BY ERM | | |
| .1. | EISERM31 | "X'20" DFHERM INVOKED IN AMODE 31 | | |
| ...1 | EISEDFRN | "X'10" INDICATE NEW TYPE EDF SCREEN REQUIRED | | |
| 1... | EISCEDFY | "X'08" CEDF allowed for current program | | |
|1. | EISSTKCM | "X'04" Within User exit when EDF invoked | | |
|1. | EISDPL | "X'02" Program restricted to DPL API | | |
|1 | EISYNCOK | "X'01" Syncpointing allowed in DPL server prog. | | |
| (C4) | BITSTRING | 1 | EISFLAG9 | |
| 1... .. | EISSYEIB | "X'80" SYSEIB ON LAST EXEC CICS COMMAND | | |
| .1. | EISRTDST | "X'40" Indicate a RouTeD Start request | | |
| (C5) | BITSTRING | 1 | (3) | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|----------------------|---|
| The following storage up to the EQU for EISINITL is re-initialised to X'00' for each program level The length of this initialised area is in EISINITL. | | | | |
| (C8) | ADDRESS | 4 | EISINITA (0) | |
| (C8) | BITSTRING | 1 | EISFLAG1 | ASSORTED FLAGS |
| | 1... .. | | EISRORX | "X'80" 1 FOR PL/I RETURN OR XCTL |
| | .1.. .. | | EISSPEX | "X'40" eligible for XEISPIN,OUT |
| | .1.1. | | EISEDFAFAM | "X'20" AMODE IS 31 BIT |
| | 1... | | EISPGOTO | "X'08" LE/370 Perform Goto flag |
| |1.. | | EISTMPTT | "X'04" Cobol and C/370 recursive thread termination flag |
| |1. | | EISEDFFC | "X'02" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS |
| |1 | | EISEXEC | "X'01" 1 DURING EXEC COMMAND |
| (C9) | CHARACTER | 2 | EIS_FASTPATH (0) | Fastpath Condition Flags |
| (C9) | BITSTRING | 1 | EISFLAG6 | MASTERS FOR EISFLAG2 |
| (CA) | BITSTRING | 1 | EISFLAG7 | AND EISFLAG3 |
| NOTE: EISLANG NOW REPLACES EISFLAG4. THE MEANING IS A PATTERN OF BITS TESTED BY CLI RATHER THAN TM. BITS 0,1,2,7 IN EISLANG ARE ALWAYS ZERO. | | | | |
| (CB) | BITSTRING | 1 | EISLANG | LANGUAGE FLAGS |
| | ...1 111. | | EISLANGS | "X'1E" ALL LANGUAGE BITS |
| | ...1 | | EISRPG | "X'10" FOR RPG PROGRAM |
| | 1... | | EISASM | "X'08" FOR ASM PROGRAM |
| |1.. | | EISCOBOL | "X'04" FOR COBOL PROGRAM |
| |11. | | EISSPCOB | "X'06" FOR SPECIAL PROGRAM |
| |1. | | EISPLI | "X'02" FOR PL/I PROGRAM |
| | 1.1. | | EISPLS | "X'0A" FOR PL/AS PROGRAM |
| | 11.. | | EISVSPLI | "X'0C" FOR V. SPECIAL PROGRAM |
| | 111. | | EISC | "X'0E" FOR C PROGRAM |
| (CC) | BITSTRING | 1 | EISFLAGA | flag byte |
| | 1... .. | | EISDAT31 | "X'80" program will accept data above 16M |
| |1.. | | EIS_XCTL | "X'04" User has issued XCTL |
| |1. | | EIS_PROGRAM_ ABENDED | "X'02" DFHAPLI's Recovery Routine has detected that the program has abended |
| |1 | | EISEIECR | "X'01" The program has terminated by issuing Exec Cics Return |
| EIS_CICS_DATAKEY, CICS_EXECKEY, CURRENT_EXECKEY and ABEND_EXECKEY are all part of the support for Storage Isolation - PSK | | | | |
| | ..1. | | EIS_CICS_DATAKEY | "X'20" Current program was defined with CICS data location key. |
| | ...1 | | EIS_CICS_EXECKEY | "X'10" Current program was defined with |
| | 1... | | EISRUNIN | "X'08" CEE Run-Unit in control CICS execution key. |
| (CD) | BITSTRING | 1 | EIS_CURRENT_ EXECKEY | Instantaneous execution key when current command started .. in first 4 bits |
| | 1..1 | | EIS_USERKEY | "X'90" Constant for testing EIS_CURRENT_EXECKEY |
| (CE) | BITSTRING | 1 | EIS_ABEND_ EXECKEY | Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level. .. in first 4 bits |
| (CF) | BITSTRING | 1 | | Reserved |
| (D0) | ADDRESS | 4 | EIS24STG | a(run-unit work-area <16 meg) |
| | 11.. | | EISINITL | **EISINITA" LENGTH CLEARED |
| This is the end of the area initialised to X'00' on LINK or XCTL. | | | | |
| | ..11 .1.. | | EISTACKL | **EISTACKA" Length stacked on LINK |
| END OF STACKED STORAGE | | | | |
| SUPERLINK STORAGE | | | | |
| The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS... | | | | |
| (D4) | ADDRESS | 4 | EISUPERB (0) | START OF SUPERLINK |
| (D4) | ADDRESS | 4 | EISICIOAL | IC Retrieve length for Bridge |
| (D8) | ADDRESS | 4 | EISBAIOA | A(BAIOA) |
| (DC) | ADDRESS | 4 | EISTDIA | A(TDIA) |
| (E0) | ADDRESS | 4 | EISTSIOA | A(TSIOA) |
| (E4) | ADDRESS | 4 | EISICIOA | IC TSIOA |
| (E8) | ADDRESS | 4 | EISDITAB | DI TABLE |
| (EC) | ADDRESS | 4 | EISFCTAB | FC reserved field |
| (F0) | ADDRESS | 4 | EISFCPTR | FC transformer field |
| (F4) | ADDRESS | 4 | EISCBUFC | HEAD OF CHAIN OF REMOTE FILE OPERATION ENTRIES |
| (F8) | ADDRESS | 4 | EISERMDA | A(ERM-EDF I/F VECTOR) |
| (FC) | ADDRESS | 4 | EISEIPR1 | EIP'S INPUT R1 FOR EDF.. |
| (100) | ADDRESS | 4 | EISBIBP | .. ADDRESS OF BIB (FOR INQUIRES) |
| (104) | ADDRESS | 4 | EISUPERE (0) | END OF SUPERLINK * |
| end of SUPERLINK storage | | | | |
| (104) | FULLWORD | 4 | (0) | |
| (104) | CHARACTER | 8 | EISTITLE | DFHEIB |

EISTG EXEC interface dynamic storage

EXEC INTERFACE DYNAMIC STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------|-----|--------------|---|
| (0) | | | DFHEISTG | EXEC INTERFACE STORAGE |
| (0) | FULLWORD | 4 | DFHEISA (18) | SAVE AREA R14-R12 AT 12 OFF |
| (48) | FULLWORD | 4 | DFHEILWS | RESERVED |
| (4C) | FULLWORD | 4 | DFHEINAB | RESERVED |
| (50) | FULLWORD | 4 | DFHEIRS0 | RESERVED |
| (54) | FULLWORD | 4 | DFHEIR13 | REGISTER 13 |
| (58) | FULLWORD | 4 | DFHEIRS1 | RESERVED |
| (5C) | FULLWORD | 4 | DFHEIBP | EIB POINTER (NOT USED IF BATCH) |
| (60) | FULLWORD | 4 | DFHEICAP | COMMAREA POINTER (NOT USED IF BATCH) |
| (64) | HALFWORD | 2 | DFHEIV00 | HALFWORD TEMP USED BY DFHECALL |
| (66) | HALFWORD | 2 | DFHEIRS2 | RESERVED |
| (68) | FULLWORD | 4 | DFHEIPL (13) | PARAMETER LIST |
| (9C) | FULLWORD | 4 | (51) | ALLOW 64 PARAMETERS FOR DLI AND IN XA2 ON, FOR EXEC CICS ALSO |
| (168) | FULLWORD | 4 | DFHEIRS3 | RESERVED |
| (16C) | FULLWORD | 4 | DFHEIRS4 | RESERVED |
| (170) | FULLWORD | 4 | DFHEITP1 | TEMPORARY POINTER 1 |
| (174) | FULLWORD | 4 | DFHEITP2 | TEMPORARY POINTER 2 |
| (178) | FULLWORD | 4 | DFHEITP3 | TEMPORARY POINTER 3 |
| (17C) | FULLWORD | 4 | DFHEITP4 | TEMPORARY POINTER 4 |
| START DEFINITION OF USER DYNAMIC STORAGE | | | | |
| (180) | DBL WORD | 8 | DFHEIUSR (0) | ALIGN USER DYNAMIC STORAGE |

EIUS EXEC interface user structure

CONTROL BLOCK NAME = DFHEIUS
 DESCRIPTIVE NAME = CICS User part of EXEC interface storage
 FUNCTION =
 This is part of the interface between the application program and CICS. It contains fields whose addresses are passed to the application or to other products which invoke the application.
 The EIUS is owned by the Execution Interface Component.
 There is one EIUS per transaction.

LIFETIME =
 The EIUS is created in DFHAPDS and lasts for the life of the task.

STORAGE CLASS =
 The subpool is chosen according to the TASKDATAKEY and TASKDATALOC options specified for the task.
 The possible subpools are :
 SUBPOOL TASKDATAKEY TASKDATALOC
 USER24 USER BELOW
 USER31 USER ANY
 CICS24 CICS BELOW
 CICS31 CICS ANY

LOCATION =
 The EIUS is addressed from the TCA by TCAEIUSA.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 This control block references no operating system data areas.
 CONTROL BLOCKS =
 This control block references no other control blocks.
 GLOBAL VARIABLES (Macro pass) =
 This control block definition references no global variables.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 180 | DFHEIUS | EXEC Interface User Structure |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------------------|
| (0) | CHARACTER | 16 | EIUS_PREFIX | Standard control block prefix |
| (0) | HALFWORD | 2 | EIUS_LENGTH | Length of DFHEIUS |
| (2) | CHARACTER | 1 | EIUS_ARROW | '>' |
| (3) | CHARACTER | 3 | EIUS_DFH | 'DFH' |
| (6) | CHARACTER | 10 | EIUS_BLOCK_NAME | 'EIUS ' |
| (10) | ADDRESS | 4 | * | Reserved |

START OF STACKED STORAGE

The following storage up to EIUS_SUPER_STACK is stacked across a LINK or XCTL.

It consists of two parts :

1. EIUS_STACK_INIT - reinitialised to X'00'.
2. EIUS_STACK_ASIS - left asis on the stack.

| | | | | |
|------|-----------|-----|-----------------|---------------------------|
| (14) | CHARACTER | 144 | EIUS_STACK_AREA | The whole link stack area |
|------|-----------|-----|-----------------|---------------------------|

The following storage up to EIUS_STACK_ASIS is re-initialised to X'00' following a LINK or XCTL

| | | | | |
|------|-----------|----|---------------------|-----------------------|
| (14) | CHARACTER | 16 | EIUS_STACK_INIT | Reinitialised section |
| (14) | CHARACTER | 8 | EIUS_CEE_RUNUNIT_TK | CEE rununit token |
| (1C) | ADDRESS | 4 | * | Reserved |
| (20) | ADDRESS | 4 | * | Reserved |

This is the end of the area initialised to X'00' on LINK or XCTL
The following storage up to EIUS_SUPER_STACK is left asis following a LINK or XCTL.

| | | | | |
|------|-----------|-----|-----------------|------------------------|
| (24) | CHARACTER | 128 | EIUS_STACK_ASIS | Left asis on the stack |
|------|-----------|-----|-----------------|------------------------|

The following fields up to EIUS_CII_ARG5 are passed to COBOL II as an argument list and must be contiguous

| | | | | |
|------|-----------|----|---------------------|-------------------------------|
| (24) | CHARACTER | 28 | EIUS_CII_ARG_LIST | COBOL II argument list |
| (24) | ADDRESS | 4 | EIUS_CII_ARG1 | COBOL II first argument |
| (28) | ADDRESS | 4 | EIUS_CII_ARG2 | COBOL II second argument |
| (2C) | ADDRESS | 4 | EIUS_CII_ARG3 | COBOL II third argument |
| (30) | ADDRESS | 4 | EIUS_CII_ARG4 | COBOL II fourth argument |
| (34) | ADDRESS | 4 | EIUS_CII_ARG5 | COBOL II fifth argument |
| (38) | ADDRESS | 4 | * | Reserved |
| (3C) | ADDRESS | 4 | * | Reserved |
| (40) | CHARACTER | 8 | EIUS_HLL_RUNUNIT_TK | High level lang rununit token |

EIUS_EIB_ADDR and EIUS_CURR_COMMA_ADDR must be contiguous for DFHEIENT macro in EXEC CICS with Assembler.

| | | | | |
|------|---------|---|---------------|-------------|
| (48) | ADDRESS | 4 | EIUS_EIB_ADDR | EIB address |
|------|---------|---|---------------|-------------|

EIUS_CURR_COMMA_ADDR is the commarea received by the currently running program. It may be a copy taken because the program can not access the original because of its location or key.

If it is a copy then the address of the original is in EIS_ORIG_COMMA_ADDR.

| | | | | |
|------|-----------|----|----------------------|----------------------------|
| (4C) | ADDRESS | 4 | EIUS_CURR_COMMA_ADDR | Current commarea address |
| (50) | ADDRESS | 4 | EIUS_RSA_ADDR | Appl Reg Save Area address |
| (54) | CHARACTER | 72 | EIUS_RSA | Reg Save Area for appl use |
| (9C) | ADDRESS | 4 | EIUS_CEE_TWA | Addr LE/370 Thread w/a |
| (A0) | ADDRESS | 4 | * | Reserved |

END OF STACKED STORAGE

SUPERLINK STORAGE

The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS...

The storage is left asis following a SUPERLINK.

| | | | | |
|------|-----------|----|------------------|----------------------------|
| (A4) | CHARACTER | 16 | EIUS_SUPER_STACK | Start of SUPERLINK storage |
|------|-----------|----|------------------|----------------------------|

EIUS_EIB_ADDR_PTR and EIUS_COMMA_ADDR_PTR must be contiguous because an argument list is built here.

| | | | | |
|------|-----------|---|---------------------|-----------------------------|
| (A4) | CHARACTER | 8 | EIUS_ARG_LIST | Application argument list |
| (A4) | ADDRESS | 4 | EIUS_EIB_ADDR_PTR | Ptr to EIUS_EIB_ADDR |
| (A8) | ADDRESS | 4 | EIUS_COMMA_ADDR_PTR | Ptr to EIUS_CURR_COMMA_ADDR |
| (AC) | ADDRESS | 4 | * | Reserved |
| (B0) | ADDRESS | 4 | * | Reserved |
| (B4) | CHARACTER | | EIUS_SUPER_END | End of SUPERLINK storage |

ETC EXEC terminal control

CONTROL BLOCK NAME = DFHETCDS
 DESCRIPTIVE NAME = CICS EXEC Terminal Control

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|---|
| | | | DFHETCDS | |
| The EXEC terminal-control control block describes the storage used to hold data relating to ATTACH function management headers (FMHs). Several such blocks may be created for a task and are chained from the EXEC interface structure (field EISCAHCB). Individual blocks may also be chained from TCTTEs owned by the task (field TCTEEIEX). ALLOW FOR (USER) STORAGE ACCOUNTING INFORMATION | | | | |
| (0) | ADDRESS | 4 | (2) | ** |
| FIRST COME DEFINITIONS FOR CONTROL BLOCK AND DATA MANIPULATION. | | | | |
| (8) | ADDRESS | 4 | ETCBFCHN | POINTER TO NEXT EXEC TC CONTROL BLOCK |
| (C) | ADDRESS | 4 | ETCBTEAR | 0 IF ETCBUSID SET OR A(TCTTE) IF ETCBTCID SET |
| (10) | ADDRESS | 4 | ETCBSTDA | LOW BOUND ADDRESS FOR FMH BUILD / EXTRACT |
| (14) | ADDRESS | 4 | ETCBNDDA | HIGH BOUND ADDRESS FOR FMH BUILD / EXTRACT |
| (18) | CHARACTER | 8 | ETCBID | NAME OF EXEC TERMINAL CONTROL BLOCK |
| (20) | CHARACTER | 1 | ETCBFLGS | |
| | 1... .. | | ETCBUSID | "X'80" ID IS 8 BYTE USER NAME |
| | .1.. | | ETCBTCID | "X'40" ID IS 4 BYTE TCTTE NAME |
| (21) | CHARACTER | 1 | ETCBXTOP | FMH BUILD / EXTRACT OPTIONS BYTE - VALUES CORRESPOND TO THOSE HELD IN TCTEXTOP |
| | 1... .. | | ETCBEXNO | "X'80" EXTRACT = NO |
| | .1.. | | ETCBEXAT | "X'40" EXTRACT = ATTACH |
| | .1.. | | ETCBEXPR | "X'20" EXTRACT = PREPARE |
| (22) | CHARACTER | 1 | ETCBREMV | FMH REMOVAL OPTIONS BYTE - VALUES ARE IDENTICAL TO THOSE HELD IN ETCBXTOP |
| (23) | CHARACTER | 1 | ETCBBILD | FMH BUILD OPTIONS |
| | 1... .. | | ETCBUFMH | "X'80" USER DATA CONTAINS FMH(S) |
| | .1.. | | ETCBBUAT | "X'40" BUILD = ATTACH |
| | .1.. | | ETCBBUPR | "X'20" BUILD = PREPARE ** |
| (24) | FULLWORD | 4 | (0) | * |
| NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 PREPARE HEADER | | | | |
| (24) | CHARACTER | 1 | LU6PTYP | VALUE PUT IN FMHPPTYP * |
| NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 ATTACH HEADER | | | | |
| (25) | CHARACTER | 1 | LU6MTYP | VALUE PUT IN FMHXMOD |
| (26) | CHARACTER | 1 | LU6DS | VALUE PUT IN FMHADS |
| (27) | CHARACTER | 1 | LU6DBA | VALUE PUT IN FMHADBA * |
| NOW COME DEFINITIONS FOR OPTIONAL FIELDS THAT RELATE TO AN LU6 ATTACH HEADER | | | | |
| (28) | CHARACTER | 1 | LU6EXIST | VALUES PRESENT IN FMH |
| | 1... .. | | LU6DPNX | "X'80" DPN PRESENT |
| | .1.. | | LU6PRNX | "X'40" PRN PRESENT |
| | .1.. | | LU6RDPNX | "X'20" RDPN PRESENT |
| | ...1 | | LU6RPRNX | "X'10" RPRN PRESENT |
| | ... 1... | | LU6DQNX | "X'08" DQN PRESENT * |
| (29) | CHARACTER | 8 | LU6DPN | VALUE PUT IN FMHATDPN |
| (31) | CHARACTER | 8 | LU6PRN | VALUE PUT IN FMHATPRN |
| (39) | CHARACTER | 8 | LU6RDPN | VALUE PUT IN FMHARDPN |
| (41) | CHARACTER | 8 | LU6RPRN | VALUE PUT IN FMHARPRN |
| (49) | CHARACTER | 8 | LU6DQN | VALUE PUT IN FMHATDQN * |
| LASTLY COME DEFINITIONS FOR FIELDS THAT RELATE TO WHAT HAS BEEN DONE TO THE DATA | | | | |
| (51) | CHARACTER | 1 | ETCBPRE | IF SET, PREPARE HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (52) | CHARACTER | 1 | ETCBLU6 | IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (53) | CHARACTER | 1 | ETCBLUC | IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB |
| (54) | CHARACTER | 1 | ETCBFMH | IF SET, DATA RETURNED TO CALLER CONTAINS ONE OR MORE FMHS |
| (55) | CHARACTER | 1 | ETCBERR | IF SET, FMH IS NOT CONTAINED WITHIN THE SPECIFIED DATA LIMITS |
| (58) | DBL WORD | 8 | ETCBEND (0) | |
| | .1.. | | ETCBCLR | "-ETCBID" LENGTH OF DATA IN CONTROL BLOCK THAT IS CLEARED WHEN AN ETCB IS FREED |
| | .1.1 | | ETCBLEN | "-ETCBFCHN" OVERALL LENGTH OF AN ETCB CONTROL BLOCK |

FCE File control EXEC argument list

CONTROL BLOCK NAME = DFHFCEDS
 DESCRIPTIVE NAME = CICS EXEC argument list for File Control
 PRODUCT SENSITIVE PROGRAMMING INTERFACES

The following fields are part of the Product-Sensitive Programming Interface.

- FC_ADDR0
- FC_ADDR1
- FC_ADDR2
- FC_ADDR3
- FC_ADDR4
- FC_ADDR5
- FC_ADDR6
- FC_ADDR7
- FC_ADDRB
- FC_GROUP
- FC_FUNCT
- FC_BITS1
- FC_BITS2
- FC_EIDOPT5
- FC_EIDOPT6
- FC_EIDOPT7
- FC_EIDOPT8
- FC_FILE
- FC_SET
- FC_INT0
- FC_FROM
- FC_LENGTH
- FC_NUMREC
- FC_REQID
- FC_RIDFLD
- FC_KEYLENGTH
- FC_RNP_REQID
- FC_SYSID
- FC_IND1

FUNCTION =

To define fields that may be of use to File Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The byte of File Control Indicators.

On entry to the XFCREQ and XFCREQC User exits, the EXEC parameter list is pointed to by UEPCLPS. The EXEC parameter list for file control consists of twelve addresses.

The twelve addresses are defined by FC_ADDR0 to FC_ADDRB. Only FC_ADDR0 to FC_ADDR7 may be used by user exits, and also FC_ADDRB. FC_ADDR8 to FC_ADDRA are reserved for CICS internal use only.

This DSECT defines FC_ADDR0 to FC_ADDRB and the areas that they point to.

On entry to the XFCREQ and XFCREQC user exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by File Control.

LIFETIME = Lifetime of the FC command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.
 (3) The token for use in communicating between XFCREQ and XFCREQC is addressed by UEPFCTOK.

INNER CONTROL BLOCKS =

- FC_ADDR_LIST declares the EXEC addresses
- FC_EID defines the EID pointed by FC_ADDR0

NOTES :

DEPENDENCIES = S/370 ESA
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition

The Command Parameter List

FC_ADDR_LIST defines twelve addresses, that form the EXEC parameter list for File Control. Only FC_ADDR0 to FC_ADDR7 and FC_ADDRB may be referenced by user exits.

In addition, FC_ADDR1 to FC_ADDR7 and FC_ADDRB may be modified by a user exit.

Any attempt to modify FC_ADDR0 will be ignored.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|--------------|------------------------|
| (0) | | | FC_ADDR_LIST | EXEC Parameter List |
| (0) | ADDRESS | 4 | FC_ADDR0 | Address 0 |
| (4) | ADDRESS | 4 | FC_ADDR1 | Address 1 |
| (8) | ADDRESS | 4 | FC_ADDR2 | Address 2 |
| (C) | ADDRESS | 4 | FC_ADDR3 | Address 3 |
| (10) | ADDRESS | 4 | FC_ADDR4 | Address 4 |
| (14) | ADDRESS | 4 | FC_ADDR5 | Address 5 |
| (18) | ADDRESS | 4 | FC_ADDR6 | Address 6 |
| (1C) | ADDRESS | 4 | FC_ADDR7 | Address 7 |
| (20) | ADDRESS | 4 | FC_ADDR8 | CICS Internal Use Only |
| (24) | ADDRESS | 4 | FC_ADDR9 | CICS Internal Use Only |
| (28) | ADDRESS | 4 | FC_ADDR10 | CICS Internal Use Only |
| (2C) | ADDRESS | 4 | FC_ADDR11 | Address 11 |

FC_EID defines:

- The type of request
- Existence bits indicating which addresses in the EXEC Parameter List are valid.
- Bits to indicate the keywords specified.

FC_ADDR0 contains the address of FC_EID.
 The following bits may be modified from a File Control user exit.

- Existence bits FC_EXIST3, FC_EXIST5, FC_EXIST6, FC_EXIST7 and FC_EXISTB.
- The keyword descriptors FC_MASSINSERT_X, FC_GENERIC_X, FC_GTEQ_X, FC_NRI_X, FC_CR_X, FC_RR_X and FC_NO_SUSPEND.

Any attempt to modify any other part of the EID will be ignored.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------|-----|-----------------|---|
| (0) | | | FC_EID | EID for File Control |
| (0) | CHARACTER | 1 | FC_GROUP | Group Code |
| |11. | | FC_FILE_GROUP | "X'06" All File Control Requests have group code '06' |
| (1) | CHARACTER | 1 | FC_FUNCT | Function Code |
| |1. | | FC_READ | "X'02" READ Request |
| |1. | | FC_WRITE | "X'04" WRITE Request |
| |11. | | FC_REWRITE | "X'06" REWRITE Request |
| | 1... | | FC_DELETE | "X'08" DELETE Request |
| | 1.1. | | FC_UNLOCK | "X'0A" UNLOCK Request |
| | 11.. | | FC_STARTBR | "X'0C" STARTBR request |
| | 111. | | FC_READNEXT | "X'0E" READNEXT Request |
| |1 | | FC_READPREV | "X'10" READPREV Request |
| |1 ..1. | | FC_ENDBR | "X'12" ENDBR Request |
| |1 ..1. | | FC_RESETBR | "X'14" RESETBR Request |
| <p>The next two bytes contain existence bits for the addresses in the EXEC parameter list. For example, FC_ADDR1 should not be used unless FC_EXIST1 is set on. FC_ADDR0 is always valid and has no existence bit.</p> | | | | |
| (2) | BITSTRING | 1 | FC_BITS1 | First 8 existence bits |
| | 1... | | FC_EXIST1 | "X'80" FC_ADDR1 is valid if the command specifies FILE |
| | ..1. | | FC_EXIST2 | "X'40" FC_ADDR2 is valid if the command specifies INTO, SET or FROM |
| | ..1. | | FC_EXIST3 | "X'20" FC_ADDR3 is valid if the command specifies LENGTH or NUMREC. It is also valid if a STARTBR, RESETBR or ENDBR specifies REQID. This bit may be modified by a user exit. |
| | ...1 | | FC_EXIST4 | "X'10" FC_ADDR4 is valid if the command specifies RIDFLD. |
| | 1... | | FC_EXIST5 | "X'08" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit. |
| |1. | | FC_EXIST6 | "X'04" FC_ADDR6 is valid if the command is READNEXT or READPREV and it specifies REQID. This bit may be modified by a user exit. |
| |1. | | FC_EXIST7 | "X'02" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit. |
| |1 | | FC_EXIST8 | "X'01" CICS Internal Use Only |
| (3) | BITSTRING | 1 | FC_BITS2 | Next 8 existence bits |
| | 1... | | FC_EXIST9 | "X'80" CICS Internal Use Only |
| | ..1. | | FC_EXISTA | "X'40" CICS Internal Use Only |
| | ..1. | | FC_EXISTB | "X'20" FC_ADDR8 is valid if the command specifies TOKEN. This may be modified by a user exit. |
| <p>The next 5 bytes describe the keywords on the command For example, if FC_MASSINSERT is set on, the command included the MASSINSERT keyword. If FC_MASSINSERT is set off, the command did not include the MASSINSERT keyword.</p> | | | | |
| (4) | BITSTRING | 1 | | Reserved |
| (5) | BITSTRING | 1 | FC_EIDOPT5 | Options Byte 1 |
| |1. | | FC_MASSINSERT_X | "X'04" MASSINSERT specified. This bit may be modified by a user exit. |
| |1. | | FC_RRN_X | "X'02" RRN specified |
| |1 | | FC_SET_X | "X'01" SET specified |
| (6) | BITSTRING | 1 | FC_EIDOPT6 | Options byte 2 |
| | 1... | | FC_RBA_X | "X'80" RBA specified |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|--|
| | .1.. | | FC_GENERIC_X | "X'40" GENERIC specified. This bit may be modified by a user exit. |
| | ..1. | | FC_GTEQ_X | "X'20" GTEQ specified. This bit may be modified by a user exit. |
| | ...1 | | FC_NRI_X | "X'10" NRI specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |
| | 1... | | FC_CR_X | "X'08" CR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |
| |1. | | FC_RR_X | "X'04" RR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set. |
| |1. | | FC_BRWS_UPD_X | "X'02" Update specified on READNEXT or READPREV request. This bit may not be modified by the user exit. |
| |1 | | FC_NO_SUSPEND | "X'01" NOSUSPEND specified on READ, READNEXT, READPREV, WRITE, DELETE, or REWRITE. This bit may be modified by the user exit. |
| (7) | BITSTRING | 1 | FC_EIDOPT7 | Options Byte 3 |
| |1. | | FC_UPDATE_X | "X'04" UPDATE specified. WARNING. This bit should only be tested if the command is READ. For all other commands it has no meaning and may or may not be set depending on the command. |
| |1 | | FC_DEBLOCK_X | "X'01" BDAM Deblocking request Either DEBKEY or DEBREC specified EIDOPT8 will specify whether DEBKEY or DEBREC. WARNING. This bit should only be tested if the command is READ or STARTBR. For all other commands this bit has no meaning and it may or may not be set depending on the command. |
| (8) | BITSTRING | 1 | FC_EIDOPT8 | Options Byte 4 |
| | 1... | | FC_DEBKEY_X | "X'80" DEBKEY specified |
| | ..1. | | FC_DEBREC_X | "X'40" DEBREC specified |
| | ..1. | | FC_TOKEN_X | "X'20" TOKEN specified |

The following definitions define the variables addressed by the remainder of the EXEC parameter list
FC_ADDR1 addresses file name

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | | | FC_DATA1 | Addressed by FC_ADDR1 |
| (0) | CHARACTER | 8 | FC_FILE | file name |

FC_ADDR2 addresses either INTO, FROM or SET

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | FC_DATA2 | Addressed by FC_ADDR2 |
| (0) | ADDRESS | 4 | FC_SET | Pointer for SET |
| (0) | CHARACTER | 1 | FC_INT0 | Data For INTO. The user will need to specify the length. |
| (0) | CHARACTER | 1 | FC_FROM | Data For FROM. The user will need to specify the length. |

FC_ADDR3 addresses either LENGTH, NUMREC or REQID
N.B. FC_ADDR3 only addresses REQID if the command is STARTBR, RESETBR or ENDBR. See FC_ADDR6 if the command is READNEXT or READPREV.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | FC_DATA3 | Addressed by FC_ADDR3 |
| (0) | HALFWORD | 2 | FC_LENGTH | Value Of LENGTH |
| (0) | HALFWORD | 2 | FC_NUMREC | Value Of NUMREC |
| (0) | BITSTRING | 2 | FC_REQID | Value Of REQID if command is STARTBR or ENDBR or RESETBR |

FC_ADDR4 addresses RIDFLD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | FC_DATA4 | Addressed by FC_ADDR4 |
| (0) | CHARACTER | 1 | FC_RIDFLD | Area For RIDFLD. The user will need to specify the length. |

FC_ADDR5 addresses KEYLENGTH

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|--------------|-----------------------|
| (0) | | | FC_DATA5 | Addressed by FC_ADDR5 |
| (0) | HALFWORD | 2 | FC_KEYLENGTH | Area For KEYLENGTH. |

FC_ADDR6 addresses REQID if the command is READNEXT or READPREV.
 N.B. See FC_DATA3 if the command is STARTBR or RESETBR or ENDBR.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | | | FC_DATA6 | Addressed by FC_ADDR6 |
| (0) | BITSTRING | 2 | FC_RNP_REQID | Area For REQID if the command is READNEXT or READPREV |

FC_ADDR7 addresses SYSID

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | | | FC_DATA7 | Addressed by FC_ADDR7 |
| (0) | CHARACTER | 4 | FC_SYSID | Area For SYSID |

FC_ADDRB addresses TOKEN

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------|
| (0) | | | FC_DATAB | Addressed by FC_ADDRB |
| (0) | CHARACTER | 4 | FC_TOKEN | Area for TOKEN |

Start of general use programming interface.
 EIBRCODE, EIBRESP and EIBRESP2
 Equates for EIBRCODE values used by File Control

| | | | | |
|-----|-----------|---|--------------------------|-----------------------|
| (4) | BITSTRING | 6 | FC_OK_EIBRCODE | OK |
| |1 | | FC_FILENOTFOUND_EIBRCODE | "X'01" File not Found |
| |11 | | FC_LOCKED_EIBRCODE | "X'03" LOCKED |
| |1.1 | | FC_RECORDBUSY_EIBRCODE | "X'05" RECORDBUSY |
| |11. | | FC_CHANGED_EIBRCODE | "X'06" CHANGED |
| | 1... .1 | | FC_NOTFND_EIBRCODE | "X'81" NOTFND |
| | 1... .1. | | FC_DUPREC_EIBRCODE | "X'82" DUPREC |
| | 1... .1.. | | FC_DUPKEY_EIBRCODE | "X'84" DUPKEY |
| | 1... | | FC_INVREQ_EIBRCODE | "X'08" INVREQ |
| | 1... .. | | FC_IOERR_EIBRCODE | "X'80" IOERR |
| | 1... ..1 | | FC_NOSPACE_EIBRCODE | "X'83" NOSPACE |
| | 11.. | | FC_NOTOPEN_EIBRCODE | "X'0C" NOTOPEN |
| | 1111 | | FC_ENDFILE_EIBRCODE | "X'0F" ENDFILE |
| |1. | | FC_ILLOGIC_EIBRCODE | "X'02" ILLOGIC |
| | 111. | | FC_LENGERR_EIBRCODE | "X'E1" LENGERR |
| | 11.1 | | FC_SYSIDERR_EIBRCODE | "X'D0" SYSIDERR |
| | 11.1 ...1 | | FC_ISCINVREQ_EIBRCODE | "X'D1" ISCINVREQ |
| | 11.1 .11. | | FC_NOTAUTH_EIBRCODE | "X'D6" NOTAUTH |
| | 1... .1.1 | | FC_SUPPRESSED_EIBRCODE | "X'85" SUPPRESSED |
| | 11.1 | | FC_DISABLED_EIBRCODE | "X'0D" DISABLED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------|--------------------------------|
| | 1... .11. | | FC_LOADING_ EIBRCODE | "X'86" LOADING |
| Equates for EIBRESP values used by File Control | | | | |
| .... .... |  |  | FC_OK_EIBRESP | "00" OK |
|11.. | | | FC_FILENOTFOUND_ EIBRESP | "12" File Not found |
|11.1 | | | FC_NOTFND_ EIBRESP | "13" NOTFND (Record not found) |
|111. | | | FC_DUPREC_ EIBRESP | "14" DUPREC |
|1111 | | | FC_DUPKEY_ EIBRESP | "15" DUPKEY |
| ...1 | | | FC_INVREQ_ EIBRESP | "16" INVREQ |
| ...1 ...1 | | | FC_IOERR_ EIBRESP | "17" IOERR |
| ...1 .1. | | | FC_NOSPACE_ EIBRESP | "18" NOSPACE |
| ...1 .1.11 | | | FC_NOTOPEN_ EIBRESP | "19" NOTOPEN |
| ...1 .1.. | | | FC_ENDFILE_ EIBRESP | "20" ENDFILE |
| ...1 .1.1 | | | FC_ILLOGIC_ EIBRESP | "21" ILLOGIC |
| ...1 .11. | | | FC LENGERR_ EIBRESP | "22" LENGERR |
| ..11 .1.1 | | | FC_SYSDERR_ EIBRESP | "53" SYSDERR |
| ..11 .11. | | | FC_ISCINVREQ_ EIBRESP | "54" ISCINVREQ |
| .1.. .11. | | | FC_NOTAUTH_ EIBRESP | "70" NOTAUTH |
| .1.. 1... | | | FC_SUPPRESSED_ EIBRESP | "72" SUPPRESSED |
| .1.1 .1.. | | | FC_DISABLED_ EIBRESP | "84" DISABLED |
| .1.1 .111. | | | FC_LOADING_ EIBRESP | "94" LOADING |
| .11. .1.. | | | FC_LOCKED_ EIBRESP | "100" LOCKED |
| .11. .1.1 | | | FC_RECORDBUSY_ EIBRESP | "101" RECORDBUSY |
| .11. 1..1 | | | FC_CHANGED_ EIBRESP | "105" CHANGED |

Equates for EIBRESP2 values used by File Control
EIBRESP2 values are listed in numerical order. This can mean that not all of the EIBRESP2 values for a given EIBRESP are listed together; for example, not all of the EIBRESP2 values for NOSPACE are listed one after the other, because there are other EIBRESP2 values within that numerical range.

| | | | | |
|-----------|--|--|---------------------------|--|
| .... .... |  |  | FC_OK_EIBRESP2 | "0" OK |
|1 | | | FC_FILENOTFOUND_ EIBRESP2 | "1" File not Found |
| 1.1. | | | FC LENGERR10_ EIBRESP2 | "10" No variable length |
| 1.11 | | | FC LENGERR11_ EIBRESP2 | "11" Buffer too small (on read request) |
| 11.. | | | FC LENGERR12_ EIBRESP2 | "12" Record too large (on write request) |
| 11.1 | | | FC LENGERR13_ EIBRESP2 | "13" Buffer length not file len. (read) |
| 111. | | | FC LENGERR14_ EIBRESP2 | "14" Record length not file len. (write) |
| ...1 .1.. | | | FC_INVREQ20_ EIBRESP2 | "20" Servreq violation |
| ...1 .1.1 | | | FC_INVREQ21_ EIBRESP2 | "21" ESDS Delete |
| ...1 .11. | | | FC_INVREQ22_ EIBRESP2 | "22" Generic delete not KSDS |
| ...1 .111 | | | FC_INVREQ23_ EIBRESP2 | "23" Ridfld Key not record key |
| ...1 1... | | | FC_INVREQ24_ EIBRESP2 | "24" Readprev in generic browse |
| ...1 1..1 | | | FC_INVREQ25_ EIBRESP2 | "25" Generic key too long |
| ...1 1.1. | | | FC_INVREQ26_ EIBRESP2 | "26" Full key wrong length |
| ...1 1.11 | | | FC_INVREQ27_ EIBRESP2 | "27" BDAM delete |
| ...1 11.. | | | FC_INVREQ28_ EIBRESP2 | "28" Two READ UPDATEs without TOKEN |
| ...1 11.1 | | | FC_INVREQ29_ EIBRESP2 | "29" Reserved |
| ...1 111. | | | FC_INVREQ30_ EIBRESP2 | "30" Rewrite before read update |
| ...1 1111 | | | FC_INVREQ31_ EIBRESP2 | "31" Delete before read update |
| ...1 | | | FC_INVREQ32_ EIBRESP2 | "32" Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------|------|-----|---------------------------|---|
| ..1. ...1 | | | FC_INVREQ33_EIBRESP2 | "33" Duplicate REQID |
| ..1. ..1. | | | FC_INVREQ34_EIBRESP2 | "34" Unknown REQID Readnext |
| ..1. ...11 | | | FC_INVREQ35_EIBRESP2 | "35" Unknown REQID Endbr |
| ..1. ..1.. | | | FC_INVREQ36_EIBRESP2 | "36" Unknown REQID Resetbr |
| ..1. ..1.1 | | | FC_INVREQ37_EIBRESP2 | "37" Illegal key type change |
| ..1. ..11. | | | FC_INVREQ38_EIBRESP2 | "38" BDAM Write Massinsert |
| ..1. ..111 | | | FC_INVREQ39_EIBRESP2 | "39" BDAM Readprev |
| ..1. 1... | | | FC_INVREQ40_EIBRESP2 | "40" BDAM Key Conversion |
| ..1. 1..1 | | | FC_INVREQ41_EIBRESP2 | "41" Unknown REQID Readprev |
| ..1. 1.1. | | | FC_INVREQ42_EIBRESP2 | "42" Keylength negative |
| ..1. 1.11 | | | FC_INVREQ43_EIBRESP2 | "43" SEGSET Specified (obsolete funct'n) |
| ..1. 11.. | | | FC_INVREQ44_EIBRESP2 | "44" Not in data table subset |
| ..1. 11.1 | | | FC_INVREQ45_EIBRESP2 | "45" INVREQ from remote system |
| ..1. 111. | | | FC_INVREQ46_EIBRESP2 | "46" BDAM length change |
| ..1. 1111 | | | FC_INVREQ47_EIBRESP2 | "47" Invalid TOKEN supplied |
| ..11 | | | FC_INVREQ48_EIBRESP2 | "48" Reserved |
| ..11 ..1. | | | FC_DISABLED_EIBRESP2 | "50" DISABLED |
| ..11 ...11 | | | FC_INVREQ51_EIBRESP2 | "51" RBA access to RLS KSDS |
| ..11 ..1.. | | | FC_INVREQ52_EIBRESP2 | "52" CR specified, but file not RLS |
| ..11 ..1.1 | | | FC_INVREQ53_EIBRESP2 | "53" RR specified, but file not RLS |
| ..11 ..11. | | | FC_INVREQ54_EIBRESP2 | "54" Browse request specified UPDATE, but file is not RLS |
| ..11 ..111 | | | FC_INVREQ55_EIBRESP2 | "55" A command specified NOSUSPEND but the file was not a VSAM file open in RLS mode. |
| ..11 1... | | | FC_INVREQ56_EIBRESP2 | "56" Unit of work cannot make updates to any more recoverable coupling facility data tables |
| ..11 11.. | | | FC_NOTOPEN_EIBRESP2 | "60" NOTOPEN |
| ..1.. ..11. | | | FC_ISCINVREQ_EIBRESP2 | "70" ISCINVREQ |
| ..1.1 | | | FC_NOTFND_EIBRESP2 | "80" NOTFND |
| ..1.1 1..1. | | | FC_ENDFILE_EIBRESP2 | "90" ENDFILE |
| ..11. ..1.. | | | FC_NOSPACE_EIBRESP2 | "100" NOSPACE |
| ..11. ..1.1 | | | FC_NOTAUTH_EIBRESP2 | "101" NOTAUTH |
| ..11. ..11. | | | FC_TABLE_FULL_EIBRESP2 | "102" NOSPACE - Data table full |
| ..11. ..111 | | | FC_STORE_FAIL_EIBRESP2 | "103" NOSPACE - GETMAIN fail |
| ..11. 1... | | | FC_LOADING_EIBRESP2 | "104" LOADING |
| ..11. 1..1 | | | FC_SUPPRESSED_EIBRESP2 | "105" SUPPRESSED |
| ..11. 1.1. | | | FC_LOCKED_EIBRESP2 | "106" LOCKED |
| ..11. 1.11 | | | FC_RECORDBUSY_EIBRESP2 | "107" RECORDBUSY |
| ..11. 11.. | | | FC_CFDTPOOL_FULL_EIBRESP2 | "108" NOSPACE - CFDT pool full |
| ..11. 11.1 | | | FC_CHANGED_EIBRESP2 | "109" Record CHANGED since read upd |
| ..11. 111. | | | FC_ILLOGIC_EIBRESP2 | "110" ILLOGIC |
| ..111 1... | | | FC_IOERR_EIBRESP2 | "120" IOERR |
| 1... ..1. | | | FC_SYSDERR_EIBRESP2 | "130" SYSDERR |
| 1... ...11 | | | FC_CFDT_SYSDERR_EIBRESP2 | "131" SYSDERR - CFDT server failed |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------------------------|-------------------------------------|
| 1... .1.. | | | FC_CFDT_ NOTABLE_EIBRESP2 | "132" SYSIDERR - CF data table gone |
| 1... 11.. | | | FC_DUPKEY_ EIBRESP2 | "140" DUPKEY |
| 1..1 .11. | | | FC_DUPREC_ EIBRESP2 | "150" DUPREC |

End of general use programming interface.

FCENT File control transformer table entries

MACRO NAME = DFHFCENT
 DESCRIPTIVE NAME = CICS Transformer File Control Operation
 Table Entry DSECT.
 This DSECT describes the entries in the FC operation table that
 is maintained by the transformer (DFHXFX or DFHXFP).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (0) | | | DFHFCENT | , |
| (0) | FULLWORD | 4 | FCENTEYE (2) | EYECATCHER - Il>FCENT (Il=length) |
| | 1... | | FCENTBEG | "" BEGINNING OF ENTRY |
| (8) | ADDRESS | 4 | FCCHAIN | ADDRESS OF NEXT ENTRY |
| (C) | CHARACTER | 4 | FCSYSNM | NAME OF SYSTEM OWNING FILE |
| (10) | CHARACTER | 8 | FCDSNAM | FILE NAME ON REMOTE SYSTEM |
| (18) | HALFWORD | 2 | FCREQID | REQID |
| (1A) | HALFWORD | 2 | FCRIDLEN | KEYLENGTH |
| (1C) | ADDRESS | 4 | FCRIDFLD | ADDR OF RIDFLD |
| (20) | ADDRESS | 4 | FCBUFFAD | ADDR OF BUFFER FOR READ SET |
| (24) | HALFWORD | 2 | FCBUFFLN | LGTH OF BUFFER FOR READ SET |
| (26) | CHARACTER | 1 | FCFLAGS1 | FIRST FLAG BYTE |
| (27) | CHARACTER | 1 | FCFLAGS2 | SECOND FLAG BYTE |
| (28) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| | ..1. 1... | | FCLLEN | ""-DFHFCENT" LENGTH OF FC OPERATION ENTRY |

FCLGC File control log record format

CONTROL BLOCK NAME = DFHFCLGC
DESCRIPTIVE NAME = CICS (FC) File Control Part of Log Record
FUNCTION =
 This describes the format of File Control's part of log records written to the system log for backout, log records written to forward recovery logs and autojournal records written to autojournals.
LIFETIME =
 This just describes the layout of log and journal records so does not have any particular lifetime.
LOCATION =
 Log and journal records are built in LIFO storage by module DFHFCLJ.
STORAGE CLASS =
 Since log and journal records are built in DFHFCLJ's LIFO this is CICS storage class.
INNER CONTROL BLOCKS =
 None
NOTES :
DEPENDENCIES = S/390
RESTRICTIONS = None
MODULE TYPE = Control block definition
All fields contained in this DSECT may be used to interpret CICS log and journal records and as such form part of the General-Use Programming Interface.
EXTERNAL REFERENCES =
 None.
DATA AREAS =
 None.
CONTROL BLOCKS =
 None.
GLOBAL VARIABLES (Macro pass) =
 None.

FLJB - File Log and Journal Block

The FLJB forms the basis of the data that File Control writes as part of its log and journal records. The FLJB is, in general, built from two parts, one part which contains data that mostly applies to all log and journal records, and a second part which contains data specific to the type of record. All log and journal records have data specific to the type of record.

The FLJB is always written to the log or journal (as appropriate), but there may also be some variable length data written immediately after the fixed length parts of the FLJB. Precisely what variable length data is written depends on the record type. The resulting log and journal records for each record type are described below.

Note that what follows is a description of only what File Control writes to the log or journal. In practice these records themselves also have a header prepended to them, either by the CICS Logger (in the case of autojournal and forward recovery records) or by the Recovery Manager (for all system log records).

The format of File Control's part of log and journal records written for read only, read update, write update, and write add, and journal records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_common_data of length length(fljb_common_data), followed by:

- o fljb_cd_key of length fljb_cd_key_length, followed by:

- o fljb_cd_data of length fljb_cd_data_length.

The format of File Control's part of log records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_common_data of length length(fljb_common_data).

The format of File Control's part of log and journal records written for write delete is shown below. The respective length of each block is also indicated.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_write_delete_data of length length(fljb_write_delete_data), followed by:

- o fljb_wdd_base_key of length fljb_wdd_base_key_length, followed by:

- o fljb_wdd_path_key of length fljb_wdd_path_key_length.

The format of File Control's part of log and journal records written for file close is shown below. This record is one of the simplest of all the log and journal records. It just contains the general data block followed by data specific to file close. The respective length of each block is indicated alongside. There are no variable length records in the file close record.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_file_close_data of length length(fljb_file_close_data).

The format of File Control's part of tie up records is shown below. The respective length of each block is indicated alongside. There are no variable length records in the tie up record.

- o fljb_general_data of length length(fljb_general_data), followed by:

- o fljb_tie_up_record of length length(fljb_tie_up_record)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|--|
| (0) | STRUCTURE | 12 | FLJB_GENERAL_DATA | |
| (0) | CHARACTER | 1 | FLJB_RECORD_TYPE | 80: read only 81: read update record 82: write update record 83: write add record 84: write add complete 86: write delete record 8E: file close record 8F: tie up record |
| (1) | BITSTRING | 1 | FLJB_BITS | general flag byte |
| | 1... .. | | FLJB_AUTOJOURNAL | ON: autojournal record OFF: otherwise |
| | .1. | | FLJB_FWD_RECOVERY | ON: forward recovery log record OFF: otherwise |
| | ..1. | | FLJB_SYSTEM_LOG | ON: system log record OFF: otherwise |
| | ...1 | | FLJB_LOG_OF_LOGS | ON: log of logs record OFF: otherwise |
| | 1111 | | * | reserved |
| (2) | CHARACTER | 8 | FLJB_FILE_NAME | name of the file which this record applies to |
| (A) | CHARACTER | 2 | * | reserved |

Common data for read only, read update, write update, write add and write add complete.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|--|
| (0) | STRUCTURE | 16 | FLJB_COMMON_DATA | |
| (0) | UNSIGNED | 4 | FLJB_CD_ BASE_ESDS_RBA | base RBA of ESDS, or 0 if not an ESDS |
| (4) | HALFWORD | 2 | FLJB_CD_ KEY_LENGTH | length of the key for the users data |
| (6) | CHARACTER | 2 | * | reserved |
| (8) | FULLWORD | 4 | FLJB_CD_ DATA_LENGTH | length of the users data (This could be fixed(15) but allow for future expansion plans.) |
| (C) | BITSTRING | 1 | FLJB_CD_BITS | common flag byte |
| | 1... .. | | FLJB_CD_SHUNTED | ON: uow has been shunted OFF: otherwise |
| | .1.. .. | | FLJB_CD_ MASS_INSERT | ON: write mass insert when write add or write add complete OFF: otherwise |
| | ..1. | | FLJB_CD_ MI_FIRST | ON: first write add complete in mass insert sequence |
| | ...1 | | FLJB_CD_ MI_LAST | ON: end of mi sequence WRTBFR/ENDREQ was successful. |
| | 1... | | FLJB_CD_ FIXED_RECFCM | ON: Fixed length record OFF: Variable length record. |
| |111 | | * | reserved |
| (D) | CHARACTER | 3 | * | reserved |

Write delete data

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|--|
| (0) | STRUCTURE | 12 | FLJB_WRITE_ DELETE_DATA | |
| (0) | UNSIGNED | 4 | FLJB_WDD_ BASE_ESDS_RBA | base RBA of ESDS, or 0 if not an ESDS |
| (4) | HALFWORD | 2 | FLJB_WDD_ BASE_KEY_LENGTH | length of base key |
| (6) | HALFWORD | 2 | FLJB_WDD_ PATH_KEY_LENGTH | length of path key, or 0 if not a path |
| (8) | BITSTRING | 1 | FLJB_WDD_BITS | write delete flag byte |
| | 1... .. | | FLJB_WDD_ SHUNTED | ON: uow has been shunted OFF: otherwise |
| | .1.. .. | | FLJB_WDD_ FIXED_RECFCM | ON: Fixed length record OFF: Variable length record. |
| | ..11 1111 | | * | reserved |
| (9) | CHARACTER | 3 | * | reserved |

File close data

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|---|
| (0) | STRUCTURE | 28 | FLJB_FILE_ CLOSE_DATA | |
| (0) | CHARACTER | 26 | FLJB_FCD_ FWDRECOVLOG_NAME | forward recovery log stream name |
| (1A) | BITSTRING | 1 | FLJB_FCD_BITS | file close flag byte |
| | 1... .. | | FLJB_FCD_ FWD_RECOVERY | ON: forward recovery was specified for this file OFF: otherwise |
| | .1.. | | FLJB_FCD_ AUTOJOURNAL | ON: autojournaling was specified for this file OFF: otherwise |
| | ..11 1111 | | * | reserved |
| (1B) | CHARACTER | 1 | * | reserved |

Tie up record data

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------------------|
| (0) | STRUCTURE | 136 | FLJB_TIE_ UP_RECORD | |
| (0) | FULLWORD | 4 | FLJB_TUR_ BASE_CI_SIZE | CI size of base dataset |
| (4) | FULLWORD | 4 | FLJB_TUR_ MAXIMUM_LRECL | maximum record length |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------------|---|
| (8) | FULLWORD | 4 | FLJB_TUR_ BASE_KEY_POSITION | position of base key within the record |
| (C) | HALFWORD | 2 | FLJB_TUR_ BASE_KEY_LENGTH | length of base key |
| (E) | CHARACTER | 1 | FLJB_TUR_ DATASET_TYPE | type of dataset: K=KSDS, E=ESDS, P=path, R=RRDS or V=VRRDS |
| (F) | CHARACTER | 1 | FLJB_TUR_ RECORD_FORMAT | format of records: V=variable, F=fixed |
| (10) | HALFWORD | 2 | FLJB_TUR_ BASE_DSNAME_LENGTH | length of base dataset name |
| (12) | CHARACTER | 44 | FLJB_TUR_BASE_DSNAME | base dataset name |
| (3E) | HALFWORD | 2 | FLJB_TUR_ PATH_DSNAME_LENGTH | length of path dataset name |
| (40) | CHARACTER | 44 | FLJB_TUR_PATH_DSNAME | path dataset name |
| (6C) | CHARACTER | 26 | FLJB_TUR_ FWDRECOVLOG_NAME | forward recovery log stream name |
| (86) | BITSTRING | 1 | FLJB_TUR_BITS | tie up flag byte |
| | 1... .. | | FLJB_TUR_RLS | ON: this was an RLS file OFF: otherwise |
| | .1... .. | | FLJB_TUR_OPEN | ON: tie up record written on open OFF: otherwise |
| | ..1. | | FLJB_TUR_ TAKE_KEYPOINT | ON: tie up record written for take keypoint request (non-RLS only) OFF: otherwise |
| | ...1 | | FLJB_TUR_ DATASET_COPY | ON: tie up record written for DSS copy of dataset (RLS only) OFF: otherwise |
| | 1... | | FLJB_TUR_ FWD_RECOVERY | ON: forward recovery was specified for this file OFF: otherwise |
| |1.. | | FLJB_TUR_ AUTOJOURNAL | ON: autojournaling was specified for this file OFF: otherwise |
| |11 | | * | reserved |
| (87) | CHARACTER | 1 | * | reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------------------------|-------------|
| 1 | HEX | 80 | FLJB_READ_ONLY | |
| 1 | HEX | 81 | FLJB_READ_UPDATE | |
| 1 | HEX | 82 | FLJB_WRITE_UPDATE | |
| 1 | HEX | 83 | FLJB_WRITE_ADD | |
| 1 | HEX | 84 | FLJB_WRITE_ ADD_COMPLETE | |
| 1 | HEX | 86 | FLJB_WRITE_DELETE | |
| 1 | HEX | 8E | FLJB_FILE_CLOSE | |
| 1 | HEX | 8F | FLJB_TIE_UP | |

FCS File control static storage

CONTROL BLOCK NAME = DFHFCSPS
 DESCRIPTIVE NAME = CICS/ESA File Control static storage area
 FUNCTION = Maps file control static storage
 LIFETIME = Created by FCIN1 at CICS initialisation. Survives until CICS termination.
 STORAGE CLASS = FC_ABOVE
 LOCATION = Above the 16MB line, addressed by CSAFCSBA
 INNER CONTROL BLOCKS = IFGYSYNNM (RLS Subsystem Name)
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 File Control Static Storage Layout

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|-----------------------------|---------------------------------------|
| (0) | STRUCTURE | 704 | FC_STATIC_STORAGE | FC Static Storage |
| Standard prefix | | | | |
| (0) | CHARACTER | 16 | FC_STATIC_PREFIX | |
| (0) | HALFWORD | 2 | FC_STATIC_STORAGE_LENGTH | Length of storage > FC Static Arrow * |
| (2) | CHARACTER | 1 | FC_STATIC_ARROW | DFH |
| (3) | CHARACTER | 3 | FC_STATIC_DFH | |
| (6) | CHARACTER | 2 | FC_STATIC_DOMAIN_ID | FC |
| (8) | CHARACTER | 8 | FC_STATIC_BLOCK_ID | STATIC |
| Storage subpool tokens | | | | |
| (10) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_CICS_BELOW | FC CICS stg below 16M |
| (18) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_VSAM | VSAM FCT entry storage |
| (20) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_BDAM | BDAM FCT entry storage |
| (28) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_SHRCTL | SHRCTL block storage |
| (30) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_DSNAME | DSNAME block storage |
| (38) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_ACB | VSAM ACB storage |
| (40) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_DCB | BDAM DCB storage |
| (48) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_AFCTE | AFCT entry storage |
| (50) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FRAB | FRAB subpool token |
| (58) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FLAB | FLAB subpool token |
| (60) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_ABOVE | Storage above 16M |
| (68) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FRTE | FRTE subpool token |
| (70) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FFLE | FFLE Subpool token |
| (78) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_RPL | RPL subpool |
| (80) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FLLB | FLLB subpool token |
| (88) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCPE | FCPE subpool token |
| (90) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_IFGLUWID | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (98) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCPW | IFGLUWID pool |
| (A0) | CHARACTER | 8 | FC_SUBPOOL_TOKEN_FCUP | FCPW subpool token |
| (A8) | CHARACTER | 8 | * | FCUP subpool token |
| (B0) | CHARACTER | 8 | * | Reserved for subpool |
| File Control restart completion indicators - did FC restart complete successfully? - was the FC environment rebuilt OK? - is this an offsite restart? | | | | |
| (B8) | FULLWORD | 4 | FCSRSCMP | Restart completion flags |
| (B8) | BITSTRING | 1 | * | |
| | 1... .. | | FCSCMPLT | FC restart complete |
| | .1... .. | | FC_NO_ENVIRONMENT | FC restart failed to rebuild FC environment |
| | ..1. | | FC_OFFSITE_RESTART | FC restart failed to rebuild FC environment |
| | ...1 1111 | | * | An offsite restart has been specified in order to perform remote site recovery reserved |
| (B9) | BITSTRING | 3 | * | |
| (BC) | BITSTRING | 1 | * | Reserved |
| (BD) | BITSTRING | 1 | * | Reserved |
| Open for business ECBs (Release 4.2 versions) | | | | |
| (BE) | BITSTRING | 1 | FC_NON_RECOV_ALLOWED_ECB | Non-recoverable work |
| (BF) | BITSTRING | 1 | FC_RECOV_ALLOWED_ECB | Recoverable work |
| (C0) | UNSIGNED | 2 | FC_DFP_REL | DFP release pt. 1 |
| (C2) | UNSIGNED | 2 | * | Reserved |
| (C4) | UNSIGNED | 4 | FC_DFP_REL_2 | DFP release pt. 2 |
| (C8) | UNSIGNED | 4 | FC_HSM_REL | Installed HSM release |
| (CC) | UNSIGNED | 4 | FC_DSS_REL | Installed DSS release |
| SHRCTL block vector table | | | | |
| (D0) | ADDRESS | 4 | FC_SHRCTL_VECTORS (8) | Pointers to SHRCTL blocks |
| Count for connect AFCTE->FCTE | | | | |
| (F0) | UNSIGNED | 4 | FC_CONNECT_COUNT | Count for connect |
| Addresses of FC interface modules | | | | |
| (F4) | ADDRESS | 4 | FC_AFMT_ADDRESS | AFMT interface address |
| (F8) | ADDRESS | 4 | FC_FCMT_ADDRESS | FCMT interface address |
| (FC) | ADDRESS | 4 | FC_FCRL_ADDRESS | FCRL interface address |
| (100) | ADDRESS | 4 | FC_FCDN_ADDRESS | FCDN interface address |
| (104) | ADDRESS | 4 | FC_FCFS_ADDRESS | FCFS interface address |
| (108) | ADDRESS | 4 | * | Reserved for address |
| (10C) | ADDRESS | 4 | FC_BDAM_ENTRY_ADDRESS | DFHFCBD entry point address |
| (110) | ADDRESS | 4 | FC_FCST_ADDRESS | FCST interface address |
| (114) | ADDRESS | 4 | * | Reserved for address |
| (118) | ADDRESS | 4 | FC_FCVR_ENTRY | FCVR entry address |
| (11C) | ADDRESS | 4 | FC_FCVS_ADDRESS | FCVS entry address |
| (120) | ADDRESS | 4 | FC_FCDY_ADDRESS | FCDY entry address |
| (124) | ADDRESS | 4 | FC_FCDU_ADDRESS | FCDU entry address |
| (128) | ADDRESS | 4 | FC_FCDT_ADDRESS | FCDT entry address |
| (12C) | ADDRESS | 4 | FC_FCAT_ADDRESS | FCAT entry address |
| (130) | ADDRESS | 4 | FC_FCSD_ADDRESS | FCSD entry address |
| (134) | ADDRESS | 4 | FC_FCRO_ADDRESS | FCRO entry address |
| (138) | ADDRESS | 4 | FC_FCRS_ADDRESS | FCRS entry address |
| (13C) | ADDRESS | 4 | FC_FCRV_ADDRESS | FCRV entry address |
| (140) | ADDRESS | 4 | FC_FCRR_ADDRESS | FCRR entry address |
| (144) | ADDRESS | 4 | FC_FCCA_ADDRESS | FCCA entry address |
| (148) | ADDRESS | 4 | FC_FCRC_ADDRESS | FCRC entry address |
| (14C) | ADDRESS | 4 | FC_FCIR_ADDRESS | FCIR entry address |
| (150) | ADDRESS | 4 | FC_FCLJ_ADDRESS | FCLJ entry address |
| (154) | ADDRESS | 4 | FC_FCES_ADDRESS | FCES entry address |
| (158) | ADDRESS | 4 | FC_FCQI_ADDRESS | FCQI entry address |
| (15C) | ADDRESS | 4 | FC_FCQU_ADDRESS | FCQU entry address |
| (160) | ADDRESS | 4 | FC_FCQX_ADDRESS | FCQX entry address |
| (164) | ADDRESS | 4 | FC_FCLF_ADDRESS | FCLF entry address |
| (168) | ADDRESS | 4 | FC_FCDO_ADDRESS | FCDO entry address |
| (16C) | ADDRESS | 4 | FC_FCFL_ADDRESS | FCFL entry address |
| (170) | ADDRESS | 4 | FC_FCNQ_ADDRESS | FCNQ entry address |
| (174) | ADDRESS | 4 | FC_FCDR_ADDRESS | FCDR entry address |
| (178) | ADDRESS | 4 | * | Reserved for address |
| Address of FRAB free chain | | | | |
| (17C) | ADDRESS | 4 | FC_STATIC_FRAB_FREE_CHAIN | FRAB free chain |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------------------|--|
| Address of FLAB free chain | | | | |
| (180) | ADDRESS | 4 | FC_STATIC_ FLAB_FREE_CHAIN | FLAB free chain |
| Address of FRTE free chain | | | | |
| (184) | ADDRESS | 4 | FC_STATIC_ FRTE_FREE_CHAIN | FRTE free chain address |
| Address of FFLE free chain | | | | |
| (188) | ADDRESS | 4 | FC_STATIC_ FFLE_FREE_CHAIN | FFLE free chain address * |
| Address of RPL free chain | | | | |
| (18C) | ADDRESS | 4 | FC_STATIC_ RPL_FREE_CHAIN | RPL free chain |
| High-water-mark for dsname block numbers | | | | |
| (190) | FULLWORD | 4 | FC_DSNBLK_HWM | |
| (194) | FULLWORD | 4 | FC_QR_COUNT | QR mode I/O count |
| (198) | UNSIGNED | 1 | FC_SUBTASKS | CO Subtask count |
| (199) | CHARACTER | 3 | FC_TASK_ID | Task id of task to which FC_QR_COUNT applies |
| Data table fields | | | | |
| (19C) | ADDRESS | 4 | FC_DTTKN | Data table services global token |
| (1A0) | ADDRESS | 4 | FC_DTRGL | Data table recovery global token |
| (1A4) | ADDRESS | 4 | FC_DTOC | Data table OPEN/CLOSE service |
| (1A8) | ADDRESS | 4 | FC_DTLD | Data table LOAD |
| (1AC) | ADDRESS | 4 | FC_DTLOC | Data table LOCATE |
| (1AC) | ADDRESS | 4 | FC_DT_READ | Data table READ |
| (1B0) | ADDRESS | 4 | FC_DTMOD | Data table MODIFY |
| (1B4) | ADDRESS | 4 | FC_DT_LOG | Data table LOG |
| (1B8) | ADDRESS | 4 | FC_DT_USE | Data table USE |
| Declarations for IO Buffers | | | | |
| (1BC) | ADDRESS | 4 | FC_BUFFER_BASE | Buffer pool base |
| Head of chain of FRABs | | | | |
| (1C0) | ADDRESS | 4 | FC_FRAB_CHAIN | Head of FRAB chain |
| Head of chain of Pool Elements | | | | |
| (1C4) | ADDRESS | 4 | FC_POOL_ ELEM_CHAIN | Head of Pool Elem Chain |
| Fields for BACKUP WHILE OPEN(BWO) - FUZZY BACKUP: FC_FUZZY_ALLOWED set when correct level of DFP is installed. FC_KEYPOINT_TAKEN set every 30 minutes to signal FCAT to write TURS to the FRLOG. FC_IGWABWO_LOADED set when Callable Services stub loaded FC_IGWABWO_LOAD_FAILED set when load failed. FC_HSM_BACKLEVEL set when HSM 2.5 not installed. FC_DSS_BACKLEVEL set when DSS 2.5 not installed. FC_HSM_DSS_WARNMSG Msg when HSM/DSS 2.5 not installed. FC_KEYPOINT_TIME time of keypoint when RECOV POINT updated FC_KPLE_CHAIN reset when every new KPLE added to chain | | | | |
| (1C8) | FULLWORD | 4 | FC_FUZZY_VALUES | |
| (1C8) | BITSTRING | 1 | * | |
| | 1... .. | | FC_FUZZY_ALLOWED | Set when BWO allowed |
| | .1.. .. | | FC_KEYPOINT_TAKEN | Set every 30 minutes |
| | ..1. | | FC_IGWABWO_LOADED | Set when load attempted |
| | ...1 | | FC_IGWABWO_LOAD_FAILED | |
| | 1... | | FC_HSM_BACKLEVEL | Set if load fail HSM 2.5 not installed |
| |1.. | | FC_DSS_BACKLEVEL | DSS 2.5 not installed |
| |1. | | FC_HSM_DSS_WARNMSG | HSM/DSS warning message |
| |1 | | * | Reserved |
| (1C9) | BITSTRING | 3 | * | Reserved |
| (1CC) | CHARACTER | 8 | FC_KEYPOINT_TIME | Last keypoint time |
| (1CC) | UNSIGNED | 4 | FC_KEYPOINT_WK1 | Left word (1bit=1sec) |
| (1D0) | UNSIGNED | 4 | FC_KEYPOINT_WK2 | right word |
| (1D4) | ADDRESS | 4 | FC_KPLE_CHAIN | Anchor for KPLE chain |
| (1D8) | ADDRESS | 4 | FC_IGWABWO | EP IGWABWO |
| (1DC) | CHARACTER | 4 | * | Reserved |
| Entry point for IGWARLS | | | | |
| (1E0) | ADDRESS | 4 | FC_IGWARLS | EP IGWARLS |
| General data table fields | | | | |
| (1E8) | CHARACTER | 8 | FC_DT_LAST_INIT | Time of last attempt to issue AOR DTP_INIT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------|---|
| (1E8) | UNSIGNED | 4 | FC_DT_LH_LAST_INIT | Left half of clock |
| (1F0) | ADDRESS | 4 | FC_DT_2 | Entry point for data tables initialization |
| (1F4) | ADDRESS | 4 | FC_DT_CLOSE_CHAIN | Files to be closed |
| (1F8) | BITSTRING | 1 | FC_DT_CLOSE_ECB | Files to be closed ECB |
| (1F9) | BITSTRING | 1 | * | FOR support indicators |
| | 1... .. | | FC_DT_FOR_NOSHARING | FOR cannot support SDT |
| | .1.. .. | | FC_DT_FOR_LOGGED_ON | FOR logged on |
| | ..1. | | FC_DT_FOR_NOTAUTH | FOR not authorized |
| | ...1 1111 | | * | Reserved |
| (1FA) | BITSTRING | 1 | * | AOR support indicators |
| | 1... .. | | FC_DT_AOR_NOSHARING | AOR cannot use SDT |
| | ..11 1111 | | * | Reserved |
| (1FB) | BITSTRING | 1 | * | Reserved |
| Data table fields | | | | |
| (1FC) | ADDRESS | 4 | FC_DT_REMOTE_GLOBAL | Remote table services global area |
| (200) | ADDRESS | 4 | FC_DT_SIGNAL | Addr STCK field in ECSA indicating table opens |
| (204) | ADDRESS | 4 | FC_DT_CONNECT | Data table CONNECT |
| (208) | ADDRESS | 4 | FC_DT_REMOTE_READ | Data table SDT read |
| (20C) | ADDRESS | 4 | FC_DT_REMOTE_USE | Data table set user |
| (210) | ADDRESS | 4 | FC_DT_BF | Bind fail chain |
| Miscellaneous RLS fields | | | | |
| (214) | UNSIGNED | 2 | FC_TIMEOUT | Global timeout value |
| (216) | BITSTRING | 1 | * | RLS Indicators |
| | 1... .. | | FC_RLS_ACCESS_DISABLED | All RLS access disabled |
| | .1.. | | FC_CACHE_MSG_SENT | Cache message sent |
| | ..1. | | FC_RLS_SUPPORTED | RLS supported |
| | ...1 | | FC_RLS_RECOVERY_ONLY | Only recovery work may access RLS |
| | 1... | | FC_ACUCB_SUPPORTED | UCB VSCR supported |
| |1.. | | FC_CATALOG_SUPPORTED | Non-rls recovery attributes from catalog supported |
| |1. | | FC_LSR_INCLUDE_RLS_FCTES | Include RLS in build@PGA |
| |1 | | * | Reserved |
| (217) | BITSTRING | 1 | FC_RLS_LAST_ACB_ECB | ECB is posted when the last open RLS ACB is closed. |
| (218) | ADDRESS | 4 | FC_RLS_ACB_CHAIN | Anchor for chain of open RLS ACBs |
| (21C) | ADDRESS | 4 | FC_INQRECOV_ADDRESS | Address of the most recent INQUIRE RECOVERY Area |
| (220) | FULLWORD | 4 | FC_INQRECOV_LENGTH | Length of the most recent INQUIRE RECOVERY Area |
| (224) | UNSIGNED | 2 | FC_QUIESTIM | Quiesce timeout value |
| (226) | CHARACTER | 2 | * | Reserved for RLS |
| RLS Control ACB Area | | | | |
| (228) | CHARACTER | 24 | FC_SUBSYSNM | Sub system name |
| (240) | ADDRESS | 4 | FC_CTL_ACB_ADDRESS | Control ACB address |
| (244) | ADDRESS | 4 | FC_CTL_ACB_RPL_CHAIN | Active RPL chain |
| (248) | FULLWORD | 4 | FC_CTL_ACB_TOTAL_WAITS | Total # of string waits |
| (24C) | FULLWORD | 4 | FC_CTL_ACB_CURRENT_WAITS | Current # of string waits |
| (250) | FULLWORD | 4 | FC_CTL_ACB_HWM_WAITS | String wait high water mark |
| (254) | UNSIGNED | 2 | FC_CTL_ACB_ACT_STRINGS | Active string count |
| (256) | BITSTRING | 1 | FC_CTL_ACB_STRING_ECB | String wait ECB |
| (257) | BITSTRING | 1 | FC_CTL_ACB_UNREG_ECB | ECB posted when control ACB unregistered |
| (258) | BITSTRING | 1 | FC_CTL_ACB_LAST_RQST_ECB | ECB is posted when the last active Control ACB request completes. |
| Emergency and Dynamic Restart Serialisation - ECBs & Flags | | | | |
| (259) | BITSTRING | 1 | FC_RESTART_LOG_SCAN_ECB | Restart log scan ECB. Hand-posted when the system log scan at emergency restart ends. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---|-----|---|--|
| (25A) | BITSTRING | 1 | FC_DYRRE_COMPLETED_ECB | DYRRE Completed ECB. Hand-posted when a dynamic RLS restart completes, whether successful or not. |
| (25B) | BITSTRING 1... .. | 1 | * FC_DYRRE_IN_PROGRESS | Restart Flags DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not. |
| (25C) | FULLWORD .111 1111 | 4 | * FC_SERVER_SEQUENCE | Reserved Sequence number of server. Starts at 1. At first recycle goes to 2 etc. |
| Unused | | | | |
| (260) | CHARACTER | 4 | * | Reserved |
| Pointers to VSAM exit lists | | | | |
| (264) | ADDRESS | 4 | FC_VSAM_EXIT_LIST_PTR | VSAM exit list |
| (268) | ADDRESS | 4 | FC_RLS_EXIT_LIST_PTR | RLS exit list |
| (26C) | ADDRESS | 4 | FC_RLS_CTL_EXIT_LIST_PTR | RLS Control ACB exit list |
| (270) | CHARACTER | 4 | * | Reserved for exit list |
| RLS Quiesce fields | | | | |
| (274) | CHARACTER | 40 | FC_QUIESCE_DATA | Quiesce fields |
| (274) | CHARACTER | 16 | FC_FCQSE_CHAIN_DATA | FCQSE element chain |
| (274) | ADDRESS | 4 | FC_FCQSE_FIRST | -> first |
| (278) | ADDRESS | 4 | FC_FCQSE_LAST | -> last |
| (27C) | BITSTRING | 4 | FC_FCQSE_ECB | Post ECB when adding |
| (280) | CHARACTER | 4 | * | Reserved for quiesce |
| (284) | CHARACTER | 16 | FC_FCQRE_CHAIN_DATA | FCQRE element chain |
| (284) | ADDRESS | 4 | FC_FCQRE_FIRST | -> first real |
| (288) | ADDRESS | 4 | FC_FCQRE_ISOLATE | -> first isolated |
| (28C) | BITSTRING | 4 | FC_FCQRE_ECB | Post ECB when adding |
| (290) | ADDRESS | 4 | FC_FCQRE_ERROR | -> error element |
| (294) | ADDRESS | 4 | FC_CFQS_ECBLIST | -> CFQS task ECB list |
| (298) | BITSTRING 1... .. .1. .... ..11 1111 | 1 | FC_QUIESCE_FLAGS FC_CFQS_TERM FC_CFQR_TERM * | Quiesce flags =1 to stop CFQS task =1 to stop CFQR task Reserved for quiesce |
| (299) | CHARACTER | 3 | * | Reserved for quiesce |
| NQ domain ENQ/DEQ pool tokens. These tokens are for NQ domain pools established during FC initialisation. Separate pools are used for record locks, mass insert range locks, ESDS write locks etc. | | | | |
| (29C) | CHARACTER | 24 | FC_NQ_POOL_TOKENS | |
| (29C) | ADDRESS | 4 | FC_DS_RECORD_NQ_POOL_TOKEN | |
| (2A0) | ADDRESS | 4 | FC_FILE_RECORD_NQ_POOL_TOKEN | |
| (2A4) | ADDRESS | 4 | FC_DS_RANGE_NQ_POOL_TOKEN | |
| (2A8) | ADDRESS | 4 | FC_DS_LOAD_MODE_NQ_POOL_TOKEN | |
| (2AC) | ADDRESS | 4 | FC_DS_ESDS_WRITE_NQ_POOL_TOKEN | |
| (2B0) | ADDRESS | 4 | FC_FILE_UMT_LOAD_NQ_POOL_TOKEN | |
| (2B4) | FULLWORD | 4 | FC_CFDL_LOADER_ID | |
| Unused | | | | |
| (2B8) | CHARACTER | 8 | * | Reserved |
| End of FC static | | | | |
| (2C0) | CHARACTER | | FC_STATIC_END | |

```

MACRO NAME: IFGSYSNM
DESCRIPTION: Mapping the Subsystem Name Control Block
STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
FUNCTION = Mapping macro for SubSystem Name
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 24 | IFGYSYSNM | |
| (0) | CHARACTER | 16 | SYSNMHDR | |
| (0) | CHARACTER | 8 | SYSNMID | Eye Catcher - IFGYSYSNM |
| (8) | FULLWORD | 4 | SYSNMLEN | Control Block Length |
| (C) | UNSIGNED | 1 | SYSNMVER | Version Identifier |
| (D) | CHARACTER | 3 | * | Reserved |
| (10) | CHARACTER | 8 | SYSNMVAL | SubSystem Name |

Constants

| Len | Type | Value | Name | Description |
|--|-----------|-----------|-----------------------------------|---------------------|
| 2 | DECIMAL | 36 | VSAM_EXLST_LENGTH | Length of exit list |
| Length of File Control static storage | | | | |
| 2 | DECIMAL | 704 | FC_STATIC_LENGTH | |
| Eye catcher - block id | | | | |
| 8 | CHARACTER | STATIC | FC_STATIC_ID | |
| Maximum number of strings for control ACB | | | | |
| 4 | DECIMAL | 1024 | FC_CTL_ACB_MAX_STRINGS | |
| Minimum DFP release levels for RLS support | | | | |
| 2 | HEX | 3321 | MIN_RLS_DFP_LEVEL1 | |
| 4 | HEX | 01010300 | MIN_RLS_DFP_LEVEL2 | |
| SYSNM Constants | | | | |
| 8 | CHARACTER | | SYSNMNUL | Null Subsys Name |
| 8 | CHARACTER | IFGYSYSNM | SYSNMIDC | Eyecatcher |
| 1 | DECIMAL | 1 | SYSNMVRC | Version |
| NQ domain ENQ/DEQ pool names | | | | |
| 8 | CHARACTER | FCDSRECD | FC_DS_RECORD_ NQ_POOL_NAME | |
| 8 | CHARACTER | FCFLRECD | FC_FILE_RECORD_ NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSRNGE | FC_DS_RANGE_ NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSLDM | FC_DS_LOAD_ MODE_NQ_POOL_NAME | |
| 8 | CHARACTER | FCDSSEWR | FC_DS_ESDS_ WRITE_NQ_POOL_NAME | |
| 8 | CHARACTER | FCFLUMTL | FC_FILE_UMT_ LOAD_NQ_POOL_NAME | |

FCT File control table entry layout

CONTROL BLOCK NAME = DFHFCTDS
 DESCRIPTIVE NAME = CICS/ESA FILE CONTROL TABLE ENTRY LAYOUT
 FUNCTION =
 To map an entry in the File Control Table.
 The File Control Table is the principal repository of definitions of the database (or FILE) component. Other modules access it at their peril.
 Each entry ordinarily matches a call of the DFHFCT macro, and describes a database file.
 There is another dsect (DFHFCTSR) to treat shared resource pools, which appear in another connected table.
 The following fields form part of the Product Sensitive Programming Interface:
 FCTDSID
 FCTDSVR1 to FCTDSKL
 FCTDSRKP
 FCTDSJID
 FCTDSDP
 FCTDSBCP
 Bit settings FCTKSDS, FCTESDS, FCTRRDS of FCTVSVR1
 Bit settings FCTJFR, FCTJWAC of byte FCTDSVR6
 FCTDSREC
 FCTDSBLK
 FCTDTSIZ
 LIFETIME =
 FCT entries are created at File Control restart and are always present thereafter.
 STORAGE CLASS =
 Part of the CICS nucleus.
 LOCATION =
 By the Table Management Program.
 INNER CONTROL BLOCKS =
 None. There are some fields with alternative meanings.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = Sequence symbols must not coincide with any that are used by objects that imbed this; in particular, the prefix .FC causes the Assembler to loop.
 MODULE TYPE = Control block definition
 FILE CONTROL TABLE

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-------------|-----|---------------|---|
| (0) | | | DFHFCTDS | DUMMY SECTION FILE CONTROL TABLE |
| FCTE prefix | | | | |
| (0) | CHARACTER | 8 | FCTDSID | Dataset identification |
| (8) | ADDRESS | 4 | FCTAFCTP (0) | Pointer to AFCT entry |
| (8) | FULLWORD | 4 | FCTAFCTOK (2) | AF_CONNECT_TOKEN |
| (10) | FULLWORD | 4 | FCTFCTKN | FC connect token count part |
| (14) | ADDRESS | 2 | FCTDSTEL | Table entry length |
| DATA SET CONTROL INDICATOR 1 | | | | |
| All 'Capabilities' (as derived from SERVREQ) | | | | |
| (16) | BITSTRING | 1 | FCTDSVR1 | DATA SET CONTROL INDICATOR 1 |
| | ...1 .11. | | FCTDSRI | "FCTDSVR1" READ INDICATOR |
| | 1... | | FCTRDIM | "X'80" READ VALID |
| | ...1 .11. | | FCTDSUPD | "FCTDSVR1" READ UPDATE INDICATOR |
| | ..1. | | FCTUPDIM | "X'20" UPDATE VALID |
| | ...1 .11. | | FCTDSADD | "FCTDSVR1" WRITE NEW RECORD INDICATOR |
| | ...1 | | FCTADDIM | "X'10" ADD VALID |
| | ...1 .11. | | FCTDSDI | "FCTDSVR1" DELETION VALIDITY INDICATOR |
| | 1... . | | FCTDELIM | "X'08" DELETE VALID |
| | ...1 .11. | | FCTBRWSE | "FCTDSVR1" BROWSE VALIDITY INDICATOR |
| |1. | | FCTBRZIM | "X'02" BROWSE VALID |
| DATA SET CONTROL INDICATOR 2 | | | | |
| Flags relating to structure of records (mainly BDAM) | | | | |
| (17) | BITSTRING | 1 | FCTDSVR2 | DATA SET CONTROL INDICATOR 2 |
| | ...1 .111 | | FCTDSEXC | "FCTDSVR2" EXCLUSIVE CONTROL INDICATOR |
| | 1... | | FCTEXCIM | "X'80" EXCLUSIVE CONTROL (BDAM) |
| | ..1. | | FCT_SET_AFTER | "X'40" Acquire SET storage after file request is complete |
| | ...1 .111 | | FCTSDRRT | "FCTDSVR2" DECIMAL RELATIVE TRACK INDICATOR |
| | ...1 | | FCTDRTIM | "X'10" DECIMAL RELATIVE TRACK ACCESSING |
| | ...1 .111 | | FCTDSVLI | "FCTDSVR2" RECORD LENGTH TYPE INDICATOR |
| | 1... . | | FCTVRLIM | "X'08" VARIABLE LENGTH RECORDS |
| |1. | | FCTFIXIM | "X'04" FIXED LENGTH RECORDS |
| | ...1 .111 | | FCTDSNBK | "FCTDSVR2" RECORD BLOCKING INDICATOR |
| |1. | | FCTBLKIM | "X'02" BLOCKED RECORDS |
| | ...1 .111 | | FCTDSKEY | "FCTDSVR2" BDAM KEY SEARCH INDICATOR |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|--|
| |1 | | FCTKEYIM | "X'01" KEYED BDAM |
| DATA SET CONTROL INDICATOR 3 Flags defining the access method | | | | |
| (18) | BITSTRING | 1 | FCTDSVR3 | DATA SET CONTROL INDICATOR 3 |
| | ...1 1... | | FCTDSVSM | "FCTDSVR3" VSAM INDICATOR |
| | 1... .. | | FCTVSAMI | "X'80" VSAM DATA SET |
| | .1.. | | FCTDTBL | "X'40" Data table |
| | .1.. | | FCTDTUM | "X'20" User data table |
| | 1... | | FCTREMOT | "X'08" Remote FCTE |
| |1.. | | FCTRLS | "X'04" RLS file |
| |1. | | FCTCFDT | "X'02" Coupling Facility Data Table |
| | ...1 1... | | FCTDSBDM | "FCTDSVR3" BDAM DATA SET INDICATOR |
| |1 | | FCTBDAMI | "X'01" BDAM DATA SET |
| DATA SET CONTROL INDICATOR 4 Flags to govern journaling and logging. | | | | |
| (19) | BITSTRING | 1 | FCTDSVR4 | DATA SET CONTROL INDICATOR 4 |
| | ...1 1.1 | | FCTDSJRO | "FCTDSVR4" JOURNAL READ ONLYS INDICATOR |
| | 1... .. | | FCTJRO | "X'80" JOURNAL READ ONLYS |
| | ...1 1.1 | | FCTDSJRU | "FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR |
| | .1.. | | FCTJRU | "X'40" JOURNAL READS FOR UPDATE |
| | ...1 1.1 | | FCTDSJWU | "FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR |
| | .1.. | | FCTJWU | "X'20" JOURNAL WRITE UPDATES |
| | ...1 1.1 | | FCTDSJWA | "FCTDSVR4" JOURNAL WRITE ADDS INDICATOR |
| | ...1 | | FCTJWA | "X'10" JOURNAL WRITE ADDS |
| | ...1 1.1 | | FCTDSJDS | "FCTDSVR4" DSNNAME HAS BEEN JOURNALLED IND |
| | 1.. | | FCTJDSN | "X'08" DSNNAME HAS BEEN JOURNALLED |
| | ...1 1.1 | | FCTDSJSY | "FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR |
| |1.. | | FCTJSYN | "X'04" SYNCHRONOUS READS JOURNAL |
| | ...1 1.1 | | FCTDSJAS | "FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR |
| |1. | | FCTJASY | "X'02" ASYNCHRONOUS WRITES JOURNAL |
| | ...1 1.1 | | FCTDSLOG | "FCTDSVR4" USE SYSTEM LOG INDICATOR |
| |1 | | FCTLOG | "X'01" USE SYSTEM LOG |
| FILE STATE THE NEW FILE STATES ALLOW FOR "TRANSITIONAL" CONDITIONS. IF " TM FCTDSTAT,FCTDSENI" YIELDS "ONES", THEN I/O REQUESTS ARE ALLOWED, EVEN IF THE TASK MUST WAIT FOR A DATA SET TO BE OPENED, SUBJECT TO SERVREQ CHECKING. | | | | |
| (1A) | BITSTRING | 1 | FCTDSTAT | File state |
| | ...1 1.1. | | FCTDSOPN | "FCTDSTAT" (Early-open indicator) |
| | 1... .. | | FCTOPNIM | "X'80" Data set is to be opened by utility rather than on first reference. |
| | .1.. | | FCTDSOPI | "X'40" Data set is open or opening |
| | ..1. | | FCTDSOPX | "X'20" OPEN/CLOSE state is transitional |
| HENCE: .10..... OPEN .00..... CLOSED .01..... CLOSING .11..... OPENING | | | | |
| | ...1 | | FCTDSCRQ | "X'10" 'CLOSE' has been requested |
| |1.. | | FCTDSENI | "X'04" Data set is enabled |
| |1. | | FCTDSIMP | "X'02" Disabled only implicitly via close |
| HENCE: .....10. ENABLED.....01. DISABLED implicitly via CLOSE.....00. DISABLED explicitly.....11. (never valid) | | | | |
| (1B) | BITSTRING | 1 | FCTDTCLS | "X'01" Close data table source |
| (1C) | BITSTRING | 1 | FCTDSKFL | Key length |
| | 1... .. | | FCTBFLGS | Backout Flags |
| |1.. | | FCTBACKO | "X'80" LOG=Y for this file while open |
| |1. | | FCTFOPEN | "X'04" Dynamically allocated and the first to be opened |
| |1. | | FCTCLUN | "X'02" File closed & marked unena- bled after an open failure |
| (1D) | BITSTRING | 1 | FCTCFKL | CFDT user specified keylength |
| (1E) | BITSTRING | 1 | | Reserved |
| (1F) | BITSTRING | 1 | | Reserved |
| (20) | FULLWORD | 4 | FCTLGTKN | Autojnl log token from Logger |
| (24) | BITSTRING | 1 | FCTDSMSW | AT MAX STRINGS WAIT BYTE |
| (25) | BITSTRING | 1 | FCTDPSW | AT PSEUDO MAX STRINGS WAIT BYTE |
| (26) | ADDRESS | 2 | FCTDSRKP | RELATIVE KEY POSITION |
| (28) | BITSTRING | 1 | FCTDSJID | USER JOURNAL ID |
| DATA SET CONTROL INDICATOR 5 Certain conditions that apply to any local data set, while open. | | | | |
| (29) | BITSTRING | 1 | FCTDSVR5 | DATA SET CONTROL INDICATOR 5 |
| CONDITIONS GIVEN AT TABLE-GENERATION - | | | | |
| | 1... .. | | FCTDPSHR | "X'80" "DISP=SHR" FOUND |
| | .1.. | | FCTDPOLD | "X'40" "DISP=OLD" FOUND |
| CONDITIONS FOUND WHILE PROCESSING AN "OPEN" REQUEST - | | | | |
| |1. | | FCTSDA | "X'02" DYNAMICALLY ALLOCATED DATA SET |
| |1 | | FCTDSCLX | "X'01" CLOSE IN PROGRESS |

| Offset Hex (2A) | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|--|
| | BITSTRING | 1 | | Reserved |
| ACCESS - STATE PROTECTION | | | | |
| Some flags are defined for in-progress state changes The following three ECBs (or "wait bytes") exist to serialise certain combinations of state-change requests. Only one of them can be WAITing at any moment, but any combination may be POSTed (implying present or past existence of tasks that waited for an action of the specific kind to complete). Next there is an ECB for serialising data table loads | | | | |
| (2B) | BITSTRING | 1 | FCTINPFL | In-progress flags |
| | ..1. 1.11 | | FCTDIINP | "FCTINPFL" Disable in-progress indicator |
| | 1... .. | | FCTDISIN | "X'80" Disable is in progress |
| (2C) | BITSTRING | 1 | FCTOPECB | "OPEN" state-change ECB |
| (2D) | BITSTRING | 1 | FCTDIECB | "DISABLE" state-change ECB |
| (2E) | BITSTRING | 1 | FCTCLECB | "CLOSE" state-change ECB |
| (2F) | BITSTRING | 1 | FCTDTLDC | Table load complete |
| STATISTICS | | | | |
| (30) | FULLWORD | 4 | FCTDSRD | NUMBER OF READ REQUESTS |
| (34) | FULLWORD | 4 | FCTDSWRA | NUMBER OF ADD RECORD REQS |
| (38) | FULLWORD | 4 | FCTDSWRU | NUMBER OF UPDATE REQUESTS |
| (3C) | FULLWORD | 4 | FCTDSXCP | NO. OF EXCP CALLS TO LAST CLOSE |
| (40) | FULLWORD | 4 | FCTDSIXP | NUMBER OF EXCP REQUESTS TO INDEX |
| (44) | FULLWORD | 4 | FCTDSGU | COUNT GET UPDATE REQUESTS |
| (48) | FULLWORD | 4 | FCTDSBR | NUMBER OF BROWSE REQUESTS |
| (4C) | FULLWORD | 4 | FCTDSBRU | No. of update browse requests |
| (50) | CHARACTER | 8 | FCTOPENT | Time file opened |
| (58) | ADDRESS | 4 | FCTDSFRT | Address of a FRTE |
| (5C) | FULLWORD | 4 | FCTDYNAL (0) | |
| DYNAMIC ALLOCATION | | | | |
| (5C) | ADDRESS | 4 | FCTDSDP | >> DSNAME ENTRY FOR DYNAMIC ALLOCATION. |
| (60) | ADDRESS | 4 | FCTDSBCP | >> DSNAME ENTRY WITH BASE CLUSTER NAME. |
| Buffer pool pointer | | | | |
| (64) | ADDRESS | 4 | FCTDSBFP | Pointer to buffer pool header |
| (68) | FULLWORD | 4 | FCTVSEXT (0) | BASE FOR OVERLAYING |
| VSAM EXTENSION | | | | |
| (68) | ADDRESS | 4 | FCTDSBWC | BUFFER WAIT CHAIN |
| (6C) | HALFWORD | 2 | FCTDSCBW | CURRENT # WAITING FOR BUFFER |
| (6E) | HALFWORD | 2 | FCTDSHBW | HIGHEST # WAITED FOR BUFFER |
| (70) | FULLWORD | 4 | FCTDSTBW | TOTAL # WAITED FOR BUFFER |
| (74) | ADDRESS | 4 | FCTVSWA | Free VSWAs |
| (78) | BITSTRING | 1 | FCTDSDBN | BUFFER SIZE INDEX FOR DATA BUFFERS |
| (79) | BITSTRING | 1 | FCTDSIBN | BUFFER SIZE INDEX FOR INDEX BUFFERS |
| (7A) | BITSTRING | 1 | FCTVSVR1 | VSAM DATA SET CONTROL IND 1 |
| | .111 1.1. | | FCTDSKSD | "FCTVSVR1" KSDS INDICATOR |
| | 1... .. | | FCTKSDS | "X'80" KEY SEQUENCED DATA SET |
| | .111 1.1. | | FCTDSESD | "FCTVSVR1" ESDS INDICATOR |
| | .1. | | FCTESDS | "X'40" ENTRY SEQUENCED DATA SET |
| | .111 1.1. | | FCTDSSHR | "FCTVSVR1" SHARED RESOURCES INDICATORS, THAT SIGNIFY CONNECTION WITH LSR POOLS |
| | ..1. | | FCTSHRIM | "X'20" FILE IS NOW SHARING RESOURCES |
| | 1... | | FCTSHRSP | "X'08" FILE IS TO USE AN LSR POOL |
| | .111 1.1. | | FCTDSSGF | "FCTVSVR1" SHARED STATS COLLECTED FLAG |
| | ...1 | | FCTSHBG | "X'10" STATISTICS HAVE BEEN COLLECTED |
| |1. | | FCTVRRDS | "X'04" Variable RRDS |
| | .111 1.1. | | FCTDSADR | "FCTVSVR1" ADDRESSED ACCESS INDICATOR |
| |1. | | FCTADR | "X'02" ADDRESSED ACCESS ONLY (SHARE OPTIONS 4 ONLY) |
| | .111 1.1. | | FCTDSRRD | "FCTVSVR1" RRDS INDICATOR |
| |1 | | FCTRRDS | "X'01" RELATIVE RECORD DATA SET |
| (7B) | BITSTRING | 1 | FCTDSOBJ | VSAM OBJECT TYPE (OR MODE) |
| MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS) | | | | |
| | .111 1.11 | | FCTDSPAT | "FCTDSOBJ" AIX PATH INDICATOR |
| | ...1 | | FCTPATH | "X'10" AIX PATH + DATASET SHARING |
| | .111 1.11 | | FCTDSALT | "FCTDSOBJ" AIX INDICATOR |
| | 1... | | FCTALTIX | "X'08" ACCESS THROUGH AIX |
| |1. | | FCTBASE | "X'04" ACCESSED AS A BASE |
| (7C) | ADDRESS | 1 | FCTIPOOL | LSR POOL IDENTIFIER |
| (7D) | BITSTRING | 1 | FCTVSVR2 | VSAM DS INDICATOR 2 |
| | 1... .. | | FCT_IMMEDIATE_CLOSE | "X'80" Immediate close requested |
| | .1. | | FCTDTOPN | "X'40" Data table is open |
| | ..1. | | FCTNODSN | "X'20" DSN-SHARING NOT TO BE APPLIED IF READ-ONLY |
| | 1... | | FCTILFLG | "X'08" DATA SET IS BEING INITIALLY LOADED |
| |1. | | FCTDREUS | "X'04" THE FILE HAS A "REUSE" SERVREQ |
| |1 | | FCTMTYRQ | "X'02" "EMPTY" REQUEST IS OUTSTANDING |
| |1 | | FCTDLFLG | "X'01" VSAM "LOAD" MODE IS IN EFFECT |
| DATA SET CONTROL INDICATOR 6 VSAM only journaling and logging options. | | | | |
| (7E) | BITSTRING | 1 | FCTDSVR6 | Dataset control indicator 6 |
| | 1... .. | | FCTJFR | "X'80" Forward recovery |
| | .1. | | FCTJWAC | "X'40" Write add complete |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------|--|
| | ..1. | | FCTFUZZY | "X'20" Fuzzy Image Copy Allowed according to FCTE |
| | ...1 | | FCTBWO | "X'10" BWO allowed for this FCTE set according to FCTE or VSAM Catalog - whichever is being used |
| EQU X'08' Reserved | | | | |
| EQU X'04' Reserved | | | | |
| EQU X'02' Reserved | | | | |
| EQU X'01' Reserved | | | | |
| DATA SET CONTROL INDICATOR 7 VSAM RLS options. | | | | |
| (7F) | BITSTRING | 1 | FCTDSVR7 | RLS bit settings |
| | 1... | | FCTCR | "X'80" Consistent read |
| | ..1. | | FCTRR | "X'40" Repeatable read |
| | ...1 | | FCTUQENA | "X'20" Re-ENABLE on QUIOPEN |
| | ...1 | | FCTCQENA | "X'10" Re-ENABLE on QUICEND |
| (80) | HALFWORD | 2 | FCTDSASC | Active string count |
| (82) | HALFWORD | 2 | FCTDSCWC | VSAM current string wait count |
| THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED. | | | | |
| (84) | HALFWORD | 2 | FCTDSMSC | Upper limit for string count |
| (86) | HALFWORD | 2 | FCTDSPMS | Limit for UPDATE/ADD string count |
| THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED FOR USE IN STATISTICAL REPORTS | | | | |
| (88) | FULLWORD | 4 | FCTDSTSW | Total # tasks waited for string |
| (8C) | FULLWORD | 4 | FCTDSEDL | Number of DELETES |
| (90) | HALFWORD | 2 | FCTDSSHWS | Highest # tasks waited on string |
| (92) | HALFWORD | 2 | FCTUPSTG | Number of strings required by VSAM during an UPDATE request |
| THE NEXT FIELD IS THE MAXIMUM RECORD LENGTH SPECIFIED IN THE DEFINITION OF THE VSAM DATA SET AND IS ALSO USED FOR ESTIMATING THE SIZE OF BUFFER REQUIRED FOR LARGE VSAM RECORDS. | | | | |
| (94) | FULLWORD | 4 | FCTMAXLN | Maximum record length |
| (98) | FULLWORD | 4 | FCTCFRLN | CFDT user specified reclen |
| TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB : | | | | |
| (9C) | HALFWORD | 2 | FCTBUFND | Specified number of data buffers |
| (9E) | HALFWORD | 2 | FCTBUFNI | Specified number of index buffers |
| (A0) | FULLWORD | 4 | FCTDSACB | Pointer to VSAM ACB |
| (A4) | BITSTRING | 1 | FCTDSBWE | Buffer wait ECB |
| (A5) | BITSTRING | 1 | | Reserved |
| (A6) | BITSTRING | 1 | FCTFRLOG | Forward recovery log id |
| (A7) | BITSTRING | 1 | FCTVSPWL | VSAM password length |
| (A8) | CHARACTER | 8 | FCTVSPWD | VSAM password |
| (B0) | CHARACTER | 8 | FCTBASEN | Symbolic name of base |
| (B8) | FULLWORD | 4 | FCTDTSIZ | Data table size |
| (BC) | ADDRESS | 4 | FCTDTTKN | Data table token |
| (C0) | FULLWORD | 4 | FCTDTRDS | Data table reads |
| (C4) | FULLWORD | 4 | FCTDTRNF | Data table reads via VSAM |
| (C8) | FULLWORD | 4 | FCTDTAVR | Data table adds via read |
| (CC) | FULLWORD | 4 | FCTDTADS | Data table adds via API |
| (D0) | FULLWORD | 4 | FCTDTARJ | Data table adds suppressed |
| (D4) | FULLWORD | 4 | FCTDTATF | Data table adds and table full |
| (D8) | FULLWORD | 4 | FCTDTRWS | Data table rewrites |
| (DC) | FULLWORD | 4 | FCTDSDL | Data table deletes |
| (E0) | FULLWORD | 4 | FCTDTLDS | Data table LOADING responses |
| (E4) | FULLWORD | 4 | FCTDTSHI | Data table record hwm |
| (E8) | ADDRESS | 4 | FCTDTPH | Data table path token |
| (EC) | ADDRESS | 4 | FCTBCCHN | Open file chain |
| (F0) | ADDRESS | 4 | FCT_NEXT_RLS_FCTE | Address of next file open in RLS mode |
| (F4) | ADDRESS | 4 | FCT_BC_CONN_CHAIN | Address of next FCT entry connected to this base |
| (F8) | ADDRESS | 4 | FCT_RLS_TIMEOUTS | Number Of RLS timeouts |
| (FC) | CHARACTER | 8 | FCTDT_NAME | Data Table Name |
| (104) | CHARACTER | 8 | FCTCF_POOL_NAME | CFDT Pool Name |
| (10C) | ADDRESS | 4 | FCTCF_POOL_ELEM_ADDR | Address of pool element |
| (110) | ADDRESS | 4 | FCTCF_NEXT_IN_POOL_CHAIN | Address of next FCT entry open against a CFDT in this pool |
| (114) | FULLWORD | 4 | FCTCF_DT_TOKEN | CFDT Token |
| (118) | BITSTRING | 1 | FCTCF_FLAGS | CFDT Flags Byte |
| | 1... | | FCTCF_UM_CONTEN | "X'80" CFDT update model is contention |
| | ..1. | | FCTCF_LOADREQ | "X'40" CFDT requires loading |
| | ...1 | | FCTCF_SOURCE | "X'20" CFDT has a source data set |
| | ...1 | | FCTCF_REOPEN | "X'10" CFDT access needs reopening |
| (11C) | FULLWORD | 4 | FCTCF_LOADER_ID | CFDT loader id |
| (120) | CHARACTER | 3 | | Reserved |
| (120) | FULLWORD | 4 | FCTVSEL | "-DFHFCTDS" Length of VSAM file entry |
| (68) | FULLWORD | 4 | FCTDAEXT (0) | |
| BDAM EXTENSION | | | | |
| (68) | ADDRESS | 4 | FCTSDSCB | Data Control Block address |
| (6C) | ADDRESS | 2 | FCTDSREC | Record length |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------------------|-----|---------------------|---|
| (6E) | ADDRESS .111 | 2 | FCTDSBLK FCTNVEL | Block size "-DFHFCTDS" Length of BDAM file entry |

FILE CONTROL TABLE PREFIX

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------------------|-----|------------|---|
| (0) | | | DFHFPFDS | TO PRECEDE FIRST FCT ENTRY |
| (0) | BITSTRING | 1 | FPFATTR | ATTRIBUTES OF LOCAL FILES SEE DFHFCT FOR SIGNIFICANCE |
| (1) | BITSTRING | 3 | | RESERVED |
| (4) | ADDRESS | 4 | FPFAFCTA | First AFCT entry |
| (8) | ADDRESS | 4 | FPFSELFA | SELF-POINTER (FOR F-DUMP) |
| (C) | ADDRESS | 4 | | Reserved |
| (10) | ADDRESS | 4 | | Reserved |
| (14) | ADDRESS | 4 | | Reserved |
| (18) | ADDRESS | 4 | FPFPVADR | ADDRESS SHARED-POOL VECTOR |
| (1C) | ADDRESS ..1. | 4 | FPFPRFL | Reserved "-DFHFPFDS" LENGTH OF FCT PREFIX |

FCTSR File control shared resources

CONTROL BLOCK NAME = DFHFCTSR
 DESCRIPTIVE NAME = CICS FCT SHARED RESOURCES CONTROL BLOCK
 FUNCTION =
 To represent CICS's requirements of, and use made of,
 a VSAM local shared resources pool.
 Part of FILE CONTROL (the database component).
 There is one instance for each pool mentioned in the
 FCT, ie up to 8 in OS and 1 in VSE.
 LIFETIME & STORAGE CLASS =
 Same as the rest of the FCT.
 LOCATION =
 By pointers and identifying numbers, all within the FCT.
 INNER CONTROL BLOCKS =
 None in the strict sense.
 Certain fields repeat others defined in DFHFCSBK,
 and can be used as a work area.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 The six fields named FCTVR... are all defined over
 the list-form of VSAM macro BLDVRP.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) = Used only for splitting source.
 FILE CONTROL TABLE
 SHARED RESOURCES CONTROL

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------------------|-----|---------------------------|---|
| (0) | | | DFHFCTSR | VSAM SHARED RESOURCES CONTROL |
| (0) | CHARACTER | 8 | FCTSRGRP (0) | (RDO group name) |
| (0) | CHARACTER | 8 | | SHARED RESOURCES CONTROL EYE-CATCHER |
| (8) | BITSTRING 1... | 1 | FCTSRCSN (0) | STRING-NUMBER STATUS |
| (8) | BITSTRING .1.. | 1 | FCTCPSTN FCTSRCKL (0) | "X'80" MUST COMPUTE STRING NUMBER KEY-LENGTH STATUS |
| (8) | BITSTRING ..1. | 1 | FCTCPKYL FCTSRCCI (0) | "X'40" MUST COMPUTE LENGTH FOR KEYS STATUS OF CI SIZES |
| (8) | BITSTRING ...1 | 1 | FCTCPICIS FCTSRSDI (0) | "X'20" MUST COMPUTE CI SIZES Separate DATA/INDEX buffers |
| (8) | BITSTRING 1.. | 1 | FCTSRSEP FCTSRORG (0) | "X'10" Use separate buffers SHRCTL block origin |
| (8) | BITSTRING.... ..1. | 1 | FCTSRUSR FCTSRERR (0) | "X'08" Defined by TYPE=SHRCTL ERROR BUILDING POOL |
| (8) | BITSTRING.... ...1 | 1 | FCTSRDMP FCTSRPST (0) | "X'02" FORMATTED DUMP ISSUED STATUS OF THIS POOL |
| (8) | BITSTRING | 1 | FCTSRBLT | "X'01" POOL IS BUILT |
| (9) | SIGNED | 1 | FCTSRPID | SHARED RESOURCES CONTROL FLAGS NUMERICAL POOL IDENTIFIER |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|--|
| (A) | HALFWORD | 2 | FCTSRUC | NUMBER OF OPEN ACBs ON THE POOL |
| (C) | ADDRESS | 4 | FCTSRBWC | BUFFER WAIT CHAIN START |
| (10) | ADDRESS | 4 | FCTSRTSC | Transaction ID suspend chain |
| (14) | HALFWORD | 2 | FCTSRPCT | PERCENTILE VALUE |
| (16) | HALFWORD | 2 | | Reserved |
| (18) | HALFWORD | 2 | FCTSRNAS | NUMBER OF ACTIVE STRINGS |
| (1A) | HALFWORD | 2 | FCTSRCSW | CURRENT NUMBER WAITING FOR STRING |
| (1C) | HALFWORD | 2 | FCTSRNKL | KEY LENGTH FOR NEXT BUILD |
| (1E) | HALFWORD | 2 | FCTSRNST | STRING NUMBER FOR NEXT BUILD |
| (20) | FULLWORD | 4 | FCTSRCHN | String wait chain |
| (24) | CHARACTER | 8 | FCTSRCTD | STCK Creation Time |
| (2C) | CHARACTER | 8 | FCTSRDTD | STCK Deletion Time |
| (34) | HALFWORD | 2 | FCTSRKYL | COMPUTED KEY LENGTH |
| (36) | HALFWORD | 2 | FCTSRSTN | COMPUTED NUMBER OF STRINGS |
| (38) | HALFWORD | 2 | FCTSRHAS | HIGHEST NUMBER OF ACTIVE STRINGS |
| (3A) | HALFWORD | 2 | FCTSRHSW | HIGHEST NUMBER WAITED FOR STRING |
| (3C) | FULLWORD | 4 | FCTSRTSW | TOTAL NUMBER WAITED FOR STRING |
| (40) | BITSTRING | 26 | FCTSRMAP | WRTBFR TRANSID USE MAP |
| (5A) | CHARACTER | 2 | | Reserved |
| (5C) | FULLWORD | 4 | FCTSRCIS (0) | FORMAT OF REPEATING FIELDS |
| (5C) | ADDRESS | 2 | FCTSRBSZ | Buffer size |
| (5E) | HALFWORD | 2 | FCTSRVBN | Virtual buffers this build |
| (60) | FULLWORD | 4 | FCTSRVBX | Virtual buffers next build |
| (64) | FULLWORD | 4 | FCTSRHBN | Hiperspace bufs this build |
| (68) | FULLWORD | 4 | FCTSRHXB | Hiperspace bufs next build |
| (6C) | FULLWORD | 4 | FCTSRBFF | NUMBER OF LOOK-ASIDE HITS |
| (70) | FULLWORD | 4 | FCTSRFRD | NUMBER OF BUFFER READS |
| (74) | FULLWORD | 4 | FCTSRUIW | NO OF USER INITIATED WRITES |
| (78) | FULLWORD | 4 | FCTSRNUW | NO OF NON-USER INITIATED WRITES |
| (7C) | FULLWORD | 4 | FCTSRCRS | Number successful CREADS |
| (80) | FULLWORD | 4 | FCTSRCWS | Number successful CWRITES |
| (84) | FULLWORD | 4 | FCTSRCRF | Number failing CREADS |
| (88) | FULLWORD | 4 | FCTSRCWF | Number failing CWRITES |
| | ..11 | | FCTSRCIL | **FCTSRCIS* LENGTH OF BUFFER SIZE ENTRY |
| (5C) | BITSTRING | 1 | FCTSR512_DATA (0) | 512 CI'S NUMBER AND STATISTICS |
| (8C) | BITSTRING | 1 | FCTSR1K_DATA (0) | 1K CI'S NUMBER AND STATISTICS |
| (BC) | BITSTRING | 1 | FCTSR2K_DATA (0) | 2K CI'S NUMBER AND STATISTICS |
| (EC) | BITSTRING | 1 | FCTSR4K_DATA (0) | 4K CI'S NUMBER AND STATISTICS |
| (11C) | BITSTRING | 1 | FCTSR8K_DATA (0) | 8K CI'S NUMBER AND STATISTICS |
| (14C) | BITSTRING | 1 | FCTSR12K_DATA (0) | 12K CI'S NUMBER AND STATISTICS |
| (17C) | BITSTRING | 1 | FCTSR16K_DATA (0) | 16K CI'S NUMBER AND STATISTICS |
| (1AC) | BITSTRING | 1 | FCTSR20K_DATA (0) | 20K CI'S NUMBER AND STATISTICS |
| (1DC) | BITSTRING | 1 | FCTSR24K_DATA (0) | 24K CI'S NUMBER AND STATISTICS |
| (20C) | BITSTRING | 1 | FCTSR28K_DATA (0) | 28K CI'S NUMBER AND STATISTICS |
| (23C) | BITSTRING | 1 | FCTSR32K_DATA (0) | 32K CI'S NUMBER AND STATISTICS |
| (23C) | | | FCTSRRFL | "(*FCTSRCIS)* Length of repeating fields |
| | 1.11 | | FCTSRNCI | "(FCTSRRFL/FCTSRCIL)*Number of CI sizes |
| (26C) | BITSTRING | 1 | FCTSR512_INDXX (0) | 512 CI'S NUMBER AND STATISTICS |
| (29C) | BITSTRING | 1 | FCTSR1K_INDXX (0) | 1K CI'S NUMBER AND STATISTICS |
| (2CC) | BITSTRING | 1 | FCTSR2K_INDXX (0) | 2K CI'S NUMBER AND STATISTICS |
| (2FC) | BITSTRING | 1 | FCTSR4K_INDXX (0) | 4K CI'S NUMBER AND STATISTICS |
| (32C) | BITSTRING | 1 | FCTSR8K_INDXX (0) | 8K CI'S NUMBER AND STATISTICS |
| (35C) | BITSTRING | 1 | FCTSR12K_INDXX (0) | 12K CI'S NUMBER AND STATISTICS |
| (38C) | BITSTRING | 1 | FCTSR16K_INDXX (0) | 16K CI'S NUMBER AND STATISTICS |
| (3BC) | BITSTRING | 1 | FCTSR20K_INDXX (0) | 20K CI'S NUMBER AND STATISTICS |
| (3EC) | BITSTRING | 1 | FCTSR24K_INDXX (0) | 24K CI'S NUMBER AND STATISTICS |
| (41C) | BITSTRING | 1 | FCTSR28K_INDXX (0) | 28K CI'S NUMBER AND STATISTICS |
| (44C) | BITSTRING | 1 | FCTSR32K_INDXX (0) | 32K CI'S NUMBER AND STATISTICS |
| (47C) | | | FCTSRNLG | **DFHCTSR* RESOURCE CONTROL ENTRY LENGTH |

FFL Fast file locate

CONTROL BLOCK NAME = DFHFFLPS
 DESCRIPTIVE NAME = CICS/ESA Fast File Locate Element (FFLE)
 FUNCTION =
 This Control Block provides the description of the Fast File Locate Element (FFLE).
 The FFLE records the address of the AFCT entry (in order to avoid repeated locates) and the results of any security checks.

LIFETIME =
 The FFLE is created when the first request against a specific file is made, and destroyed at Syncpoint.

STORAGE CLASS =
 Held in the FC_FFLE subpool.

LOCATION =
 Chained from the 'APEF' work token for the Recovery Manager.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset | Type | Len | Name (Dim) | Description |
|--------|------------|-----|---------------------|--------------------------|
| (0) | STRUCTURE | 17 | DFHFFLE | |
| (0) | ADDRESS | 4 | FFL_NEXT_FFLE | Next FFLE in chain |
| (4) | CHARACTER | 8 | FFL_FILE_NAME | File Name |
| (C) | ADDRESS | 4 | FFL_AFCTE_ADDRESS | Address Of AFCTE |
| (10) | BITSTRING | 1 | FFL_SECURITY_ACCESS | Security Characteristics |
| | 1... | | FFL_READ_ALLOWED | Read security check OK |
| | .1... | | FFL_UPDATE_ALLOWED | Update security check OK |
| | ..11 1111 | | * | |

FIOA File input/output area

CONTROL BLOCK NAME = DFHFIOA
 DESCRIPTIVE NAME = CICS File I/O Area.
 FUNCTION = FILE I/O AREA

The FIOA is acquired dynamically from main storage by File Control whenever a request is made for I/O to a BDAM data set. The data area, beginning at field FIOADBA, is used as the true I/O area from/to which records are read/written. The FRTE contains the address of the FIOA at FRT_WORK_AREA_ADDRESS. The following fields form part of the Product-Sensitive Programming Interface.

- FIOAIND
- FIOAM
- FCFIODEC
- FCFIOBEX
- FCFIOECB
- FCFIOLRA
- FIOADBA
- FCDS01D

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------|------------------------|-----|--|--|
| (0) | | | DFHFIOA | DUMMY SECTION - FILE I/O AREA @ |
| FIXED SECTION | | | | |
| (0) | HALFWORD | 2 | FIOALGTH | Length of FIOA. |
| DATA EVENT CONTROL BLOCK | | | | |
| (2) | BITSTRING 11.. | 1 | FIOAIND (0) FIOAM | FILE I/O AREA INDICATOR "X'00" FILE I/O AREA |
| (4) | FULLWORD | 4 | FCFIODEC (0) | DATA EVENT CONTROL BLOCK |
| (4) | FULLWORD | 4 | FCFIOBEX (0) | EXCEPTION CODES - BDAM |
| (4) | FULLWORD | 4 | FCFIOECB | EVENT CONTROL BLOCK |
| (8) | HALFWORD | 2 | FCFIOTYP | TYPE OF OPERATION |
| (A) | HALFWORD | 2 | FCFIOLNG | DATA / AREA LENGTH |
| (C) | FULLWORD | 4 | FCFIODCB | DATA CONTROL BLOCK ADDRESS |
| (10) | ADDRESS | 4 | FCFIOAA | INPUT / OUTPUT DATA ADDR |
| (14) | FULLWORD | 4 | FCFIOIOB | IOB ADDRESS |
| (18) | FULLWORD | 4 | FCFIOKA | KEY ADDRESS |
| (1C) | FULLWORD | 4 | FCFIOBRF | BLKREF FIELD - BDAM |
| (20) | FULLWORD | 4 | FCFNXADR | ADDR OF NEXT ADDR FEEDBACK FLD |
| VARIABLE SECTION | | | | |
| (24) | BITSTRING 1... | 1 | FCIOEXB (0) FCECIND | EXCLUSIVE CONTROL INDICATOR "X'80" RECORD IS UNDER EXCLUSIVE CNTRL |
| (24) | CHARACTER | 1 | (3) | RESERVED |
| (28) | ADDRESS | 4 | FIOAFRTE | ADDRESS OF ASSOCIATED FRTE |
| (2C) | FULLWORD | 4 | FCFIOLRA | LOGICAL RECORD ADDRESS |
| (30) | HALFWORD | 2 | FCFIOLRL | Logical record length |
| (34) | FULLWORD | 4 | FCFIOFCT | FILE CONTROL TABLE ENTRY ADDR |
| (38) | FULLWORD | 4 | FIOA_KEY_ADDRESS | Address of RIDFLD in FIOA |
| (3C) | FULLWORD | 4 | | Reserved |
| (40) | FULLWORD | 4 | FIOA_BLOCK_END | Address of end of block |
| (44) | HALFWORD | 2 | FIOA_BROWSE_ KEYLENGTH | Keylength during browse |
| (46) | HALFWORD | 2 | FIOA_BROWSE_RRN | DEBREC number in browse |
| (48) | CHARACTER | 8 | FIOA_KEY_WORKAREA | Workarea for real address conversion |
| (50) | CHARACTER | 8 | FIOA_JOURNAL_ECN | Workarea for FCJL |
| (58) | BITSTRING 1... | 1 | FIOA_BROWSE_FLAGS FIOA_BROWSE_ IN_PROGRESS | Indicators for browse |
| | .1.. | | FIOA_DEBREC_BROWSE | "X'80" Browse in progress |
| | .1. | | FIOA_DEBKEY_BROWSE | "X'40" DEBREC browse |
| (59) | BITSTRING 1... | 1 | FIOA_INDICATORS FIOA_DEBLOCK_ REQUIRED | "X'20" DEBKEY browse Miscellaneous indicators |
| (60) | DBL WORD .11. | 8 | FIOACAE (0) FIOACAD | "X'80" Deblock required CONTROL AREA ENDING ADDRESS |
| | .1.1 11.. | | FIOAL | "-DFHFIOA" CONTROL AREA DISPLACEMENT |
| (60) | DBL WORD .11. | 8 | FCDS01D (0) FIOADBA | "-FCFIOECB" FIOA LENGTH BEGINNING ADDRESS DATA AREA "FCDS01D" DATA BEGINNING ADDRESS |

FLABC File lasting access block

CONTROL BLOCK NAME = DFHFLABC
DESCRIPTIVE NAME = CICS File Lasting Access Block (FLAB)
FUNCTION =

DFHFLAB describes the DSECT for the File Lasting Access Block. This block serves as an anchor for the set of File Request Thread Elements (FRTEs) belonging to a particular file within a given transaction and a given environment.

If a transaction accesses several files from within the same environment, there will be one FLAB for each file. If a transaction accesses the same file from more than one environment, there will be one FLAB for each environment.

The FLAB holds the following data:-

- (1) The address of the corresponding FCTE and the name of the corresponding file
- (2) The environment identifier
- (3) The address of the owning FRAB
- (4) The address of the first FRTE in the chain of FRTEs owned by this FLAB. Note that the associated file can not be closed if there are any FRTEs addressed by this FLAB.
- (5) An indicator that the associated file must not be closed until syncpoint phase 2, even if the FRTE chain is empty.
- (6) An indicator that recoverable work has been done against this file. If this bit is OFF and do_not_close is ON, this indicates that the uow has only done repeatable reads.
- (7) An indicator that the corresponding file entry must not be reallocated to a different dataset, even if the file is closed and disabled.
- (8) An indicator of whether or not backout attempts are currently disabled for this file by this unit of work which is set on when the associated data set first suffers a backout failure, and is cleared when the unit of work is unshunted for a backout retry.
- (9) Some indicators used to keep track of state during the rebuilding of enqueues on CICS restart.
- (10) An indicator that an RLS QUICOPY or QUIBWO request was received for the dataset, and the UOW that owns the FLAB has updated the file.
- (11) Fields to record the type of syncpoint failure which has caused the FLAB to be retained.
- (12) Fields to record the address, length, location & key of SET storage owned by a READ SET issued for this file within this environment.

LIFETIME =
The File Lasting Access Block is built by File Control as part of processing of the first File Control request for a particular file within a given transaction and environment.
The storage for the FLAB is obtained from a FLAB storage subpool, created by DFHFCRP during File Control initialisation.
The File Lasting Access Block is deleted after all the FRTEs have been processed during syncpoint terminate processing, provided that there have been no syncpoint failures for the file within the unit of work. At this point, the FLAB storage is not returned to the FLAB storage subpool, but is instead added to a chain of free FLABs, addressed by FC_STATIC_FLAB_FREE_CHAIN in FC static. Subsequent requests to build a FLAB are, if possible, satisfied by a quick cell mechanism from this chain. If the UOW is shunted, FLABs may be shunted with it. Recoverable FLABs are rebuilt at Emergency Restart, and sometimes also at warm restart.
Note.

If new fields are added to the FLAB, DFHFCIR must be modified to rebuild those fields at warm or emergency restart.

STORAGE CLASS =
Above 16M line. CICS key.

LOCATION =
Issuing an INQUIRE_WORK_TOKEN to the recovery manager with a client name of 'FC' returns the address of the FRAB. The FRAB contains the address of the first FLAB in field FRAB_FLAB_CHAIN_ADDRESS. Subsequent FLABs for this transaction are addressed by field FLAB_NEXT_FLAB_ADDRESS.

INNER CONTROL BLOCKS =
DFHSETCC

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------------|--|
| (0) | STRUCTURE | 64 | DFHFLAB | |
| Eye catcher | | | | |
| (0) | CHARACTER | 16 | FLAB_EYE_CATCHER | Eye catcher |
| (0) | HALFWORD | 2 | FLAB_LENGTH | Length of FLAB |
| (2) | CHARACTER | 6 | FLAB_EYE1 | >DFHFC FC 'domain' |
| (8) | CHARACTER | 8 | FLAB_EYE2 | FLAB |
| Main part of FLAB. | | | | |
| (10) | CHARACTER | 48 | FLAB_MAIN_PART | Main part of FLAB |
| (10) | ADDRESS | 4 | FLAB_NEXT_FLAB_ADDRESS | Address of next FLAB on chain from owning FLAB |
| (10) | ADDRESS | 4 | FLAB_FREE_FLAB_ADDRESS | Address of next FLAB on free chain |
| (14) | ADDRESS | 4 | FLAB_FRAB_ADDRESS | Address of FRAB that owns this FLAB |
| (18) | CHARACTER | 8 | FLAB_FILENAME | Name of associated file |
| (20) | ADDRESS | 4 | FLAB_FCTE_ADDRESS | Address of associated FCT entry |
| (24) | UNSIGNED | 4 | FLAB_ENVIRONMENT_ID | Environment identifier |
| This part of the FLAB addresses the FRTE chain and controls whether the file may be closed or reallocated. | | | | |
| (28) | ADDRESS | 4 | FLAB_FRTE_CHAIN_ADDRESS | Address of first FRTE owned by this FLAB |
| (2C) | BITSTRING | 1 | FLAB_FLAGS | Flag byte |
| | 1... .. | | FLAB_DO_NOT_CLOSE | Do not close file until syncpoint commit |
| | .1.. .. | | FLAB_DO_NOT_REALLOCATE | Do not reallocate file: Retained locks exist |
| | ..1. | | FLAB_BACKOUT_ATTEMPTS_DISABLED | Do not attempt backout: base data set has had a backout failure since the last unshunt |
| | ...1 | | FLAB_RECOVERABLE_WORK_DONE | Recoverable work done and therefore eligible for shunting. |
| | 1... | | FLAB_MI_COMPLETE_SEEN | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|------------------------|-----|----------------------------|--|
| |1.. | | FLAB_WA_ COMPLETE_SEEN | Mass insert complete log rec seen (restart) |
| |1. | | FLAB_QUICMP_ PENDING | Write add complete log rec seen (restart) |
| (2D) |1 BITSTRING | 1 | * FLAB_SECURITY_ ACCESS | RLS QUICOPY or QUIBWO quiesce request received for base data set Reserved |
| | 1... | | FLAB_READ_ ALLOWED | Security Characteristics |
| | .1.. | | FLAB_UPDATE_ ALLOWED | Read security check OK |
| (2E) | ..11 1111 UNSIGNED | 1 | * FLAB_RETAIN_ REASON | Update security check OK Reserved |
| (2F) | UNSIGNED | 1 | FLAB_RETAIN_ REASON2 | Reason work had to be retained |
| | | | | Sub-reason for backout failures |
| SET storage for READ_SET requests | | | | |
| (30) | CHARACTER | 8 | FLAB_SET_ CONTROL | Set storage control |
| (38) | CHARACTER | 8 | FLAB_SETU_ CONTROL | Set storage control |
| (40) | CHARACTER | | * | Align to double word boundary |

Constants

| Len | Type | Value | Name | Description |
|---------------------------------|---------|-------|----------------------------|-------------|
| 1 | DECIMAL | 0 | FLAB_NOT_RETAINED | |
| 1 | DECIMAL | 1 | FLAB_FILE_ BACKOUT_FAILURE | |
| 1 | DECIMAL | 2 | FLAB_CACHE_FAILURE | |
| 1 | DECIMAL | 3 | FLAB_RLS_ CATASTROPHE | |
| 1 | DECIMAL | 4 | FLAB_INDOUBT | |
| 1 | DECIMAL | 5 | FLAB_COMMIT_FAILURE | |
| 1 | DECIMAL | 6 | FLAB_CICS_FAILURE | |
| Values for flab_ retain_reason2 | | | | |
| 1 | DECIMAL | 0 | FLAB_NO_SUBREASON | |
| 1 | DECIMAL | 1 | FLAB_IO_ERROR | |
| 1 | DECIMAL | 2 | FLAB_NO_SPACE | |
| 1 | DECIMAL | 3 | FLAB_AIX_FULL | |
| 1 | DECIMAL | 4 | FLAB_DUP_RECORD | |
| 1 | DECIMAL | 5 | FLAB_OPEN_ERROR | |
| 1 | DECIMAL | 6 | FLAB_NO_LDEL | |
| 1 | DECIMAL | 7 | FLAB_DEADLOCK | |
| 1 | DECIMAL | 8 | FLAB_COPY_ACTIVE | |
| 1 | DECIMAL | 9 | FLAB_SEVERE_ERROR | |
| 1 | DECIMAL | 10 | FLAB_RETAINABLE_LOCKS | |
| 1 | DECIMAL | 11 | FLAB_REPEATABLE_READS | |
| 1 | DECIMAL | 12 | FLAB_LOCK_STRUC_FULL | |

FMH Function management headers

MODULE NAME = DFHFHMDS
 DESCRIPTIVE NAME = CICS CICS Function Management Headers
 FUNCTION =
 Copybook DFHFHMDS provides dsect DFHFHMDS.
 DFHFHMDS describes the format of the Function Management Headers (FMHs) used by CICS.
 LIFETIME =
 FMHs are used (in conjunction with user data) for communication between CICS and other LUs. These include:
 1. 3600 and batch LUs
 2. LUs supporting LU6.1 protocols
 3. LUs supporting LU6.2 protocols
 4. LUs supporting (CICS) IRC protocols
 The lifetime, as far as CICS is concerned, is no more than the lifetime of the TIOAs containing the FMHs and user data.
 STORAGE CLASS =
 As for TIOAs.
 LOCATION =
 As for TIOAs.
 INNER CONTROL BLOCKS =
 There are no inner control blocks.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = There are no restrictions.
 MODULE TYPE = Control block definition.
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =
 COMMON SECTION - 3600, BATCH LU

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | | | DFHFHMDS | DSECT - FORMAT MESSAGE HDR |
| (0) | BITSTRING | 1 | FMHLENG | FMH LENGTH |
| |11 | | FMHL3600 | "3" ...LENGTH OF 3600 FMH |
| |11 | | FMHLBLU | "6" ...LENGTH OF BATCH LU FMH |
| | 1..1 | | FMHLLU4 | "9" ...LENGTH OF LU4 FMH-NO DSN |
| (1) | BITSTRING | 1 | FMHHD | HEADER DESCRIPTION |
| | .1. | | FMHFD | "X'40'" ...MESSAGE HAS FORMATTED DATA |
| | ..1. | | FMHALARM | "X'20'" ...TRIGGER ALARM AT DEVICE |
| |11 | | FMHTBLU | "X'01'" ...BATCH LU IS TYPE X'01' |
| (2) | BITSTRING | 1 | FMHLDC | LOGICAL DEVICE CODE -- SAME VALUES IN DFHSLDC, EXCEPT: |
| | 1... | | FMHBLUIN | "X'80'" ...INPUT INDICATOR FOR BATCH LU |
| (3) | BITSTRING | 1 | | RESERVED |
| BATCH LU EXTENSION | | | | |
| (4) | BITSTRING | 1 | FMHFLAGS | BATCH LU FLAGS |
| | 1... | | FMHSUSP | "X'80'" ...SUSPEND DATA SET |
| | .1. | | FMHBODS | "X'40'" ...BEGINNING OF DATA SET |
| | ..1. | | FMHEODS | "X'20'" ...END OF DATA SET ...BITS 3-7 RESERVED |
| (5) | BITSTRING | 1 | | RESERVED |
| RESPECIFICATION FOR BATCH LU FMHS TYPE 1 FMH FORMAT | | | | |
| (0) | BITSTRING | 1 | FMHLEN | LENGTH OF COMPLETE FMH |
| (1) | BITSTRING | 1 | FMHTYPE | TYPE OF FMH |
| |11 | | FMHFTYP1 | "X'01'" ..TYPE 1 FMH |
| |1. | | FMHFTYP2 | "X'02'" ..TYPE 2 FMH |
| |11 | | FMHFTYP3 | "X'03'" ..TYPE 3 FMH |
| | 1... | | FMHFCONC | "X'80'" CONCATENATED FMH |
| (2) | BITSTRING | 1 | FMHMEDIA | MEDIA SELECTION BYTE |
|  | .... .... |  | FMHMEFCN | "X'00'" ..CONSOLE |
| | ...1 | | FMHMEFEX | "X'10'" ..EXCHANGE MEDIA |
| | ..1. | | FMHMEFCD | "X'20'" ..CARD READER |
| | ..11 | | FMHMEFPR | "X'30'" ..PRINT |
| | .1. | | FMHMEFDI | "X'40'" ..DISK |
| | .11. | | FMHMEFPD | "X'60'" ..PDS |
| | .1.1 | | FMHMEXDC | "X'50'" .. EXTENDED DOCUMENT |
| | 1... | | FMHMEWM1 | "X'80'" .. WP MEDIUM 1 |
| | 1..1 | | FMHMEWM2 | "X'90'" .. WP MEDIUM 2 |
| | 1.1. | | FMHMEWM3 | "X'A0'" .. WP MEDIUM 3 |
| | 11.. | | FMHMEWM4 | "X'C0'" .. WP MEDIUM 4 |
| | 11.1 | | FMHMENCI | "X'D0'" .. NCI |
| | .111 1111 | | FMHMEFAN | "X'7F'" ..ANY NOTE ONLY BITS 1-3 USED BIT 0 RESERVED BIT 4-7 LOGICAL SUBADDRESS |
| (3) | BITSTRING | 1 | FMHFLAG3 (0) | FLAG BYTE |
| | 1... | | FMHT1STK | "X'80'" 'YOUR' STACK INDICATOR BIT 1-3 RESERVED |
| (3) | BITSTRING | 1 | FMHDSP (0) | DATA STREAM PROFILE |
|  | .... .... |  | FMHDSPE | "X'00'" DEFAULT DSP |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| |1 | | FMHDSPBA | "X'01" BASE DSP |
| |11 | | FMHDSPJB | "X'03" JOB DSP |
| |1. | | FMHDSRPW | "X'04" WP RAW |
| |11. | | FMHDSPI1 | "X'06" OII LEVEL 1 |
| |111 | | FMHDSPI2 | "X'07" OII LEVEL 2 |
| | 1... | | FMHDSPI3 | "X'08" OII LEVEL 3 X'09' - X'0A' RESERVED |
| | 1.11 | | FMHDSPSF | "X'0B" STRUCTURED FIELDS X'0C' - X'0F' RESERVED |
| (3) | BITSTRING | 1 | FMHSDSDSP | DEFINE STORAGE |
| (4) | BITSTRING | 1 | FMHDESEL | DESTINATION SELECT FIELD BIT 0-2 ONLY |
| |1. | | FMHDEFRE | "X'00" ..RESUME DATA SET |
| |1. | | FMHDEFEN | "X'20" ..END DATA SET |
| |1. | | FMHDEFBG | "X'40" ..BEGIN DATA SET |
| |11. | | FMHDEFBD | "X'60" ..BEGIN AND END DATA SET |
| | 1... | | FMHDEFUS | "X'80" ..SUSPEND DATA SET |
| | 1.1. | | FMHDEFAB | "X'A0" ..ABORT DATA SET |
| (5) | BITSTRING | 1 | FMHRESV1 (0) | RESERVED |
| (5) | BITSTRING | 1 | FMHERCI | EXCHANGE RECORD LENGTH |
| (6) | BITSTRING | 1 | FMHRESV2 (2) | RESERVED |
| (8) | BITSTRING | 1 | FMHDSNL | LENGTH OF DESTINATION NAME |
| (9) | CHARACTER | 1 | FMHDSNH (0) | ACTUAL DSN NAME |

TYPE 2 FMH OVERLAY

| | | | | |
|-----|-----------|---|--------------|---------------------------------|
| (2) | BITSTRING | 1 | FMH2OPCD | TYPE OF OPERATION |
| |1. | | FMH2FADD | "X'24" ..ADD OPERATION |
| |1.1 | | FMH2FREP | "X'25" ..REPLACE OPERATION |
| | 1... | | FMH2FQUE | "X'28" ..QUERY OPERATION |
| | 1.1. | | FMH2FNOT | "X'29" ..NOTE OPERATION |
| | 1.1. | | FMH2NTRY | "X'2A" ..NOTE REPLY OPERATION |
| | 1.11 | | FMH2FRID | "X'2B" ..RECID OPERATION |
| | 11.. | | FMH2FERA | "X'2C" ..ERASE OPERATION |
| | 111. | | FMH2FVOL | "X'2E" ..VOLID OPERATION |
| (3) | BITSTRING | 1 | FMH2NURC (0) | NUMBER OF RECORDS AFFECTED |
| (3) | BITSTRING | 1 | FMH2RITY (0) | TYPE OF KEY FOR RECID TYPE |
| |1. | | FMH2RIAK | "X'00" ..ADDRESSED DIRECT |
| |1. | | FMH2RID1 | "X'01" ..KEY DIRECT KEY1 |
| |1. | | FMH2RID2 | "X'02" ..KEY DIRECT KEY2 |
| |11 | | FMH2RIAP | "X'03" ..APPLICATION DEFINITION |
| | 1.. | | FMH2RICC | "X'04" ..CONTROL DEFINITION |
| (3) | BITSTRING | 1 | FMH2DAT1 (0) | START OF DATA FIRST TYPE |
| (3) | BITSTRING | 1 | | OVERLAYED BYTE |
| (4) | CHARACTER | 1 | FMH2DAT2 (0) | START OF DATA SECOND TYPE |

THE FOLLOWING DSECT DESCRIBES FUNCTION MANAGEMENT HEADERS AND IN SOME CASES THE DATA THAT CAN FOLLOW THE HEADER. THE ORGANIZATION OF THE DEFINITIONS WITHIN THIS PART OF THE COPY BOOK IS AS FOLLOWS :-

1. THE STANDARD PART OF A FUNCTION MANAGEMENT HEADER. THESE DEFINITIONS APPLY WHATEVER TYPE, GROUP AND FUNCTION CODE THE HEADER MAY CARRY.
2. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 5; THAT IS, ATTACH HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHA' FOR LU6.1 AND BY THE PREFIX 'FMHB' FOR LU6.2.
3. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 6; THAT IS, SCHEDULER MODEL, QUEUE MODEL AND DL/I MODEL HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIXES 'FMHS', 'FMHQ' AND 'FMHD' RESPECTIVELY.
4. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 7; THAT IS, SYSTEM MESSAGES. THESE ARE IDENTIFIED BY THE PREFIX 'FMHSM'
5. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 10; THAT IS, SYNCPOINT HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHP'
6. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 12; THAT IS, TRANSFORMED PASSWORD HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHV'.
7. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 43; THAT IS, CICS PRIVATE HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHC'.

NOTE THAT THE DECLARED LENGTHS OF VARIABLE LENGTH PARAMETERS ALLOW FOR THE (REASONABLE) LENGTH OF THE PARAMETER VALUES. TO EACH MUST BE ADDED ONE BYTE FOR THE PRECEEDING LENGTH FIELD. (REFER TO MODULE DFHXFP FOR EXAMPLES OF HOW VARIABLE LENGTH PARAMETERS ARE HANDLEED.)

NOTE ALSO THAT A THEORETICAL MAXIMUM LENGTH IS QUOTED FOR MOST FMHS. THIS PERMITS THE FASTER CONSTRUCTION OF FMHS AT THE EXPENSE OF A FEW EXTRA BYTES OF STORAGE.

| | | | | |
|-----|-----------|---|-------|---|
| (0) | CHARACTER | 1 | FMHL | LENGTH OF FMH |
| (1) | CHARACTER | 1 | FMHCT | CONCATENATION FLAG AND FMH TYPE BITS SET AS FOLLOWS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| | 1... .. | | FMHCAT | "X'80" A SECOND F.M. HEADER COMES AFTER THIS ONE BIT1 - BIT 7 FMH TYPE VALUES SET AS FOLLOWS |
| |1.1 | | FMHT05 | "X'05" IBM ARCHITECTED ATTACH F.M. HEADER |
| |11. | | FMHT06 | "X'06" IBM ARCHITECTED MODEL F.M. HEADER |
| |111 | | FMHT07 | "X'07" IBM ARCHITECTED SYSTEM MESSAGE F.M. HEADER |
| | 1.1. | | FMHT0A | "X'0A" IBM ARCHITECTED SYNCPOINT F.M. HEADER |
| | 11.. | | FMHT0C | "X'0C" IBM ARCHITECTED TRANSFORMED PASSWORD F.M. HEADER |
| | ..1. .11 | | FMHT43 | "X'43" CICS ARCHITECTED MODEL F.M. HEADER |
| (2) | CHARACTER | 2 | FMHXCMD (0) | GROUP AND FUNCTION CODES |
| (2) | CHARACTER | 2 | FMHXSS (0) | FMH T7 SYSTEM SENSE |
| (2) | CHARACTER | 1 | FMHGROUP | GROUP CODE |
| (3) | CHARACTER | 1 | FMHFN | FUNCTION CODE |
| (4) | CHARACTER | 2 | FMHXUS (0) | FMH T7 USER SENSE |
| (4) | CHARACTER | 1 | FMHXM0D | MODIFIER BITS SET AS FOLLOWS |
| | 1... .. | | FMHXLNSZ | "X'80" '0' FOR 1 BYTE FMH LENGTH FIELDS(LU6.1 FMH ONLY) |
| | ..1. | | FMHXTOS | "X'40" Set if system supports Time-out delete of remote skeletons (Transaction Routing only) |
| | | | | BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED |
| (5) | CHARACTER | 1 | FMHFXCT | LENGTH OF FIXED LENGTH PARAMETERS IN FMH |
| (6) | CHARACTER | 1 | FMHFORG (0) | ORIGIN FOR THE TYPE, GROUP AND FUNCTION DEPEND- ENT FIXED LENGTH PARAMETERS |
| |11. | | LFMH | "-DFHFMHDS" LENGTH OF THE STANDARD PART OF THE HEADER |
| TYPE 5 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF ATTACH MANAGEMENT LU6.1 ATTACH FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION FMHGROUP VALUES SET AS FOLLOWS | | | | |
| |1. | | FMHT5ATT | "X'02" GROUP IS ATTACH FMHFN VALUES SET AS FOLLOWS |
| |1. | | FMHATTFN | "X'02" FUNCTION IS ATTACH |
| (6) | CHARACTER | 1 | FMHATDS | SECURITY ALGORITHM VALUE |
| (7) | CHARACTER | 1 | FMHATDBA | DATA ALGORITHM VALUE VALUES SET AS FOLLOWS |
|  | .... .... |  | FMHAU | "X'00" UNDEFINED |
| |1 | | FMHAV | "X'01" VARIABLE LENGTH |
| |1. | | FMHASCSD | "X'02" DOCUMENT SUBSET OF SCS |
| |11 | | FMHASCSC | "X'03" CARD SUBSET OF SCS |
| |1. | | FMHARUC | "X'04" CHAIN OF REQUEST UNITS |
| |1.1 | | FMHARU | "X'05" REQUEST UNIT |
| | 1... | | LFMH0202 | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | 1... | | LF050202 | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHATDPN (0) | PROCESS TO BE INITIATED |
| (0) | CHARACTER | 1 | FMHATDPL | PROCESS NAME LENGTH |
| |1 | | FMHARLEN | "1" LENGTH OF AN ARCHITECTED PROCESS NAME |
| (1) | CHARACTER | 4 | FMHATDPV (0) | PROCESS NAME UP TO FOUR CHARACTERS |
| | ..11 1111 | | FMHARMAX | "X'3F" MAXIMUM POSSIBLE VALUE FOR ARCHITECTED PROCESS NAMES - NON-GRAPHIC VALUES |
| (0) | CHARACTER | 8 | FMHATPRN (0) | RESOURCE FOR INITIATED PROCESS |
| (0) | CHARACTER | 8 | FMHARDPN (0) | RETURN PROCESS NAME |
| (0) | CHARACTER | 8 | FMHARPRN (0) | RESOURCE FOR RETURN PROCESS |
| (0) | CHARACTER | 8 | FMHATDQN (0) | QUEUE TO BE ASSOCIATED WITH INITIATED PROCESS |
| | ..1. .11 | | TA050202 | "LF050202+1+L'FMHATDPN+1+L'FMHATPRN+1+L'FMHARDPN" |
| | ..11 .1.1 | | MF050202 | "TA050202+1+L'FMHARPRN+1+L'FMHATDQN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE ATTACH FMH |
| LU6.2 ATTACH FUNCTION MANAGEMENT HEADER X'02FF' GROUP AND FUNCTION GROUP AND FUNCTION VALUES SET AS FOLLOWS | | | | |
| (0) | BITSTRING | | FMHBCMD | "X'02FF" ATTACH LU6.2 |
| | 1111 1111 | | FMHBTTFN | "X'FF" FUNCTION = LU6.2 ATTACH FLAGS SET IN FMHXM0D |
| | 1... | | FMHBPIP | "X'08" PIP PRESENT |
| |1.. | | FMHBXSEC | "X'04" Extended security bit |
| | 1... | | FMHBAVER | "X'80" USERID ALREADY VERIFIED |
| | ..1. | | FMHBPVER | "X'40" USERID PERSISTENTLY VERIFIED |
| | ..1. | | FMHBPV2 | "X'20" Userid Persistently Signed On FMHFXCT |
| |11 | | FMHBFXCT | "X'03" LENGTH OF FIXED LENGTH PARMS |
| (6) | BITSTRING | 1 | FMHBCVT (0) | CONVERSATION TYPE |
| | 11.1 | | FMHBUNMP | "X'D0" UNMAPPED |
| | 11.1 ...1 | | FMHBMAPD | "X'D1" MAPPED |
| (6) | BITSTRING | 1 | FMHBFXT1 | 1ST BYTE |
| (7) | BITSTRING | 1 | FMHBFXT2 | 2ND BYTE - RESERVED 3RD BYTE |
| (8) | BITSTRING | 1 | FMHBSPL (0) | BITS 0-1 - SYNC POINT LEVEL |
|  | .... .... |  | FMHBSPL0 | "X'00" NO SYNC |
| | ..1. | | FMHBSPL1 | "X'40" COMMIT ONLY (CONFIRM) |
| | 1... | | FMHBSPL2 | "X'80" FULL SYNCPT |
| | 11.. | | FMHBSPMK | "X'C0" SYNC POINT MASK |
| (8) | BITSTRING | 1 | FMHBRSTL (0) | BIT 2 - RESTART LEVEL |
|  | .... .... |  | FMHBRNO | "X'00" - NO |
| | ..1. | | FMHBRYES | "X'20" - YES |
| (8) | BITSTRING | 1 | FMHBFXT3 | 3RD BYTE |
| | 1.1 | | LF0502FF | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 1 | FMHBTPNL | ACTUAL LENGTH OF FMHBTPN |
| (1) | CHARACTER | 32 | FMHBTPN (0) | TRANSACTION PROGRAM NAME |
| (0) | CHARACTER | 1 | FMHBACCL | ACTUAL LENGTH OF FMHBACC |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|---|
| (1) | CHARACTER | 73 | FMHBACC (0) | SECURITY ACCESS CODE |
| (0) | CHARACTER | 1 | FMHBACSL | ACCESS SUBFIELD LENGTH |
| (1) | CHARACTER | 1 | FMHBACST | ACCESS SUBFIELD TYPE |
| .... .... |  |  | FMHBACPR | "X'00" PROFILE-ID |
|1 | | | FMHBACPA | "X'01" PASSWORD |
|1. | | | FMHBACUS | "X'02" USER-ID |
| 1111 1.1. | | | FMHBAC_RRS | "X'FA" RRS data field |
| 1111 1.11 | | | FMHBAC_EPN | "X'FB" ENTRY PORT NAME |
| 1111 11.. | | | FMHBAC_EPT | "X'FC" ENTRY PORT TYPE |
| The entry port type can either be X'00' representing a VTAM terminal, or X'01' representing a console. | | | | |
| .... .... |  |  | FMH_VTAM_TERMINAL | "X'00" |
|1 | | | FMH_CONSOLE | "X'01" |
| 1111 11.1 | | | FMHBAC_APL | "X'FD" APPLID OF ENTRY PORT |
| 1111 111. | | | FMHBAC_PRI | "X'FE" SHIPPED TASK PRIORITY |
| 1111 1111 | | | FMHBAC_SRC | "X'FF" MVS/WLM SRC TOKEN |
| (2) | CHARACTER | 40 | FMHBACSD (0) | ACCESS SUBFIELD DATA |
| (0) | CHARACTER | 1 | FMHBUOWL | ACTUAL LENGTH OF FMHBUOW |
| (1) | CHARACTER | 30 | FMHBUOW (0) | UNIT OF WORK ID |
| (1) | CHARACTER | 1 | FMHBULUL | LENGTH OF LU NAME |
| (2) | CHARACTER | 17 | FMHBULU (0) | LU NAME (NETWORK NAME FROM ACB) |
| (0) | CHARACTER | 6 | FMHBUCLK | UOW INSTANCE (STORE CLOCK VALUE) |
| (6) | CHARACTER | 2 | FMHBUSEQ | UOW SEQUENCE NO |
| (0) | CHARACTER | 1 | FMHBCCSL | ACTUAL LENGTH OF FMHBCCS |
| (1) | CHARACTER | 8 | FMHBCCS (0) | SENDER'S CONVERSATION CORRELATOR |
| (0) | CHARACTER | 1 | FMHBSEQL | Actual length of FMHBSEQ |
| (1) | CHARACTER | 8 | FMHBSEQ (0) | Sender's DCE sequence number |
| 1..1 ..11 | | | TA0502FF | "LF0502FF+1+L'FMHBTPN+1+L'FMHBACC+1+L'FMHBUOW" |
| 1.1. .1.. | | | MF0502FF | "TA0502FF+1+L'FMHBCCS+L'FMHBSEQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE LU6.2 ATTACH FMH |
| TYPE 6 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SYSTEM MESSAGE MODEL SYSSTAT FUNCTION MANAGEMENT HEADER USED FOR LOGGING ERROR MESSAGES ON CSMT X'0402' GROUP AND FUNCTION NOTE THAT CICS/V/S WILL NOT SEND THE SYSSTAT FMH | | | | |
|11. | | | LF060402 | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| SYSERROR FUNCTION MANAGEMENT HEADER USED FOR X'0404' GROUP AND FUNCTION NOTE THAT CICS/V/S WILL NOT SEND NOR RECEIVE THE SYSERROR FMH | | | | |
|11. | | | LF060404 | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 4 | FMHERDPN | DPN FOR INTENDED REPLY |
| (0) | CHARACTER | 4 | FMHERPRN | PRN FOR INTENDED REPLY |
| ...1 | | | MF060404 | "LF060404+1+L'FMHERDPN+1+L'FMHERPRN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH |
| FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SCHEDULER MODEL SCHED FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REQUESTS X'0802' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMDF FOR SCHED FMH | | | | |
| .1.. | | | FMHXRPLY | "X'40" REPLY IS EXPECTED |
| ..1. | | | FMHXPROT | "X'20" REQUEST IS PROTECTED |
| ...1 | | | FMHXDELY | "X'10" TIMER IS REQUIRED |
| 1.. | | | FMHRTST | "X'08" Routable START |
| (6) | CHARACTER | 1 | FMHSRQST | DETAILS OF SCHEDULE REQUEST BITS SET AS FOLLOWS |
| 1... | | | FMHSTIME | "X'80" TIME DELAY SPECIFIED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED |
|111 | | | LF060802 | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | FMHSSDPN (0) | NAME OF PROCESS THAT IS TO BE INITIATED |
| (0) | CHARACTER | 4 | FMHSPRN (0) | NAME OF PRIMARY RESOURCE FOR PROCESS BEING INITIATED |
| (0) | CHARACTER | 8 | FMHSRDPN (0) | SUGGESTED NAME FOR RETURN PROCESS |
| (0) | CHARACTER | 4 | FMHSRPRN (0) | SUGGESTED NAME FOR PRIMARY RESOURCE FOR RETURN PROCESS |
| (0) | CHARACTER | 8 | FMHSQNM (0) | NAME OF QUEUE ASSOCIATED WITH PROCESS BEING INITIATED |
| (0) | CHARACTER | 8 | FMHSREQN (0) | NAME OF REQUEST INSTANCE ASSOCIATED WITH PROCESS |
| (0) | CHARACTER | 6 | FMHSDELY (0) | THE INTERVAL OR TIME INITIATION DELAY FIELD |
| (0) | CHARACTER | 8 | FMHUSID (0) | THE USERID ON A START COMMAND |
| (0) | CHARACTER | 8 | FMHSYSNE (0) | Applid for PF start |
| (0) | CHARACTER | 8 | FMHTRMNE (0) | Terminal netname for start |
| ...1 111. | | | TA060802 | "LF060802+1+L'FMHSSDPN+1+L'FMHSPRN+1+L'FMHSRDPN" |
| ..11 .1.1 | | | TB060802 | "TA060802+1+L'FMHSRPRN+1+L'FMHSQNM+1+L'FMHSREQN" |
| 1.. 11.1 | | | MF060802 | "TB060802+1+L'FMHSDELY+1+L'FMHUSID+L'FMHSYSNE" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCHED FMH |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---|---|
| SCDSTAT FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REPLIES X'0804' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | FMHSSSTS .1. .... ...1 1... .... .1.. .... .1.. .... .1.. .... .1.. .... .1.. | STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED "X'40" Unable to ship request to next node "X'20" UNAUTHORIZED REQUEST "X'10" INITIATION TIME EXPIRED "X'08" INVALID PROCESS NAME "X'04" INVALID RESOURCE NAME "X'02" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR "X'01" INVALID REQUEST |
| (7) | CHARACTER | 1 | FMHSSST2 1... 1... | EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS "X'80" USERID ERROR |
| (0) | CHARACTER | 8 | FMHSIREQ (0) MF060804 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER REQUEST NAME GENERATED BY RECEIVING SYSTEM "LF060804+1+L'FMHSIREQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCDSTAT FMH |
| PURGREQ FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REQUESTS X'0806' GROUP AND FUNCTION | | | | |
| (0) | CHARACTER | 8 | LF060806 (0) | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER see definition for FMHSREQN |
| (0) | CHARACTER | 8 | FMHSCDPN (0) MF060806 | NAME OF PROCESS THAT IS TO BE CANCELLED "LF060806+1+L'FMHSREQN+1+L'FMHSCDPN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PURGREQ FMH |
| PURGSTAT FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REPLIES X'0808' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | FMHSPSTS.... .1.. .... .1.. .... .1.. .... .1.. | STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED "X'04" Unable to ship request to next node "X'02" UNAUTHORIZED REQUEST "X'01" NAMED REQUEST NOT FOUND |
| (0) | CHARACTER | 16 | LF060808 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 QUEUE MODEL QPUT FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REQUESTS WRITEQ TS REQUESTS X'0A02' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | FMHCNDRQ.... .1.. .... .... .... .1.. .... .1.. .... .1.. .... .1.. .... .1.. | "X'02" CONDITIONAL REQUEST TYPE OF QUEUE VALUES SET AS FOLLOWS "X'00" QUEUE TYPE NOT SPECIFIED "X'01" QUEUE TYPE IS SEQUENTIAL "X'02" QUEUE TYPE IS LINEAR "X'03" QUEUE TYPE IS HIERARCHICAL |
| (0) | CHARACTER | 16 | FMHQNAME (0) MF060A02 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS "LF060A02+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH |
| QGET FUNCTION MANAGEMENT HEADER USED FOR READQ TS REQUESTS X'0A04' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMXMOD FOR QGET FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | LF060A04.... .1.. | see definition for FMHQQORG "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | FMHQCURS | THE CURSOR IS HELD AS TWO BYTE BINARY |
| (0) | CHARACTER | 2 | FMHQTRSZ ...1 11.. | THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY "LF060A04+1+L'FMHQNAME+1+L'FMHQCURS+1+L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGET FMH |
| QPURGE FUNCTION MANAGEMENT HEADER USED FOR DELETEQ TD REQUESTS DELETEQ TS REQUESTS X'0A06' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | LF060A06.... .1.. | see definition for FMHQQORG "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) MF060A06 | see definition for FMHQNAME "LF060A06+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--|
| QXFR FUNCTION MANAGEMENT HEADER USED FOR READQ TD REPLIES READQ TS REPLIES X'0A08' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQQORG |
| (7) | CHARACTER | 1 | FMHQXFST | STATUS BYTE BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED |
| |1.. | | FMHQDISP | "X'04" DISPOSITION OF QUEUE BIT6 RESERVED |
| |1 | | FMHQEMSG | "X'01" END OF MESSAGE |
| | 1... | | LF060A08 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| (0) | CHARACTER | 2 | FMHQRCNT (0) | NUMBER OF OCCURENCES OF RECORDS AT LOWEST LEVEL OF CURSOR |
| (0) | CHARACTER | 2 | FMHQRCLN (0) | RECORD LENGTH BEFORE TRUNCATION |
| | ...1 ...1 | | MF060A08 | "LF060A08+1+L'FMHQCURS+1+L'FMHQRCNT+1+L'FMHQRCLN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QXFR FMH |
| QSTATUS FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REPLIES WRITEQ TS REPLIES READQ TD REPLIES READQ TS REPLIES DELETEQ TD REPLIES DELETEQ TS REPLIES X'0A0A' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND EITHER THE FMHQSENS OR THE FMHQNAME VARIABLE LENGTH PARAMETER | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQQORG |
| (7) | CHARACTER | 2 | FMHQSTAT (0) | STATUS OF REQUEST |
| (7) | CHARACTER | 1 | FMHQSTA1 | FIRST STATUS BYTE BITS SET AS FOLLOWS |
| | 1... | | FMHQINVL | "X'80" INVALID LENGTH FOR REQUEST |
| | .1. | | FMHQINVN | "X'40" INVALID QUEUE NAME |
| | .1. | | FMHQRNVL | "X'20" RECORD NOT AVAILABLE |
| | ...1 | | FMHQNAVL | "X'10" QUEUE NAME NOT AVAILABLE |
| | 1... | | FMHQSPAC | "X'08" NO SPACE LEFT ON QUEUE |
| |1.. | | FMHQINVC | "X'04" INVALID CURSOR |
| |1 | | FMHQERRO | "X'02" I/O ERROR WHEN QUEUE ACCESSED |
| |1 | | FMHQEMPT | "X'01" QUEUE IS EMPTY |
| (8) | CHARACTER | 1 | FMHQSTA2 | RESERVED |
| | 1... | | FMHQIORG | "X'80" Q-ORG NOT SUPPORTED |
| | .1. | | FMHQNAUT | "X'40" UNAUTHORIZED REQUEST |
| | .1. | | FMHQSYSI | "X'20" Unable to ship request to next node |
| | ...1 | | FMHQDISA | "X'10" Queue exists but has been disabled |
| | 1... | | FMHQINVR | "X'08" Invalid request; e.g. DELETEQ for extra TD |
| |1.. | | FMHQLOCK | "X'04" Queue is locked |
| | 1..1 | | LF060A0A | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| (0) | CHARACTER | 256 | FMHQSENS (0) | SENSE DATA (COULD BE ACCESS METHOD DATA) |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| | 11.. | | MF060A0A | "LF060A0A+1+L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QSTATUS FMH |
| QREPL FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TS REQUESTS X'0A0C' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR QREPL FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQQORG |
| |111 | | LF060A0C | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQCURS |
| | ...1 1.11 | | MF060A0C | "LF060A0C+1+L'FMHQNAME+1+L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QREPL FMH |
| QGETN FUNCTION MANAGEMENT HEADER USED FOR READQ TD REQUESTS READQ TS REQUESTS X'0A10' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXM0D FOR QGETN FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST | | | | |
| (6) | CHARACTER | 1 | | see definition for FMHQQQORG |
| |111 | | LF060A10 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 8 | (0) | see definition for FMHQNAME |
| (0) | CHARACTER | 2 | (0) | see definition for FMHQTRSZ |
| | ...1 1.11 | | MF060A10 | "LF060A10+1+L'FMHQNAME+1+L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGETN FMH |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------------------------|--|
| FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 DL/I MODEL DL/I MODEL FUNCTION MANAGEMENT HEADERS CAN BE FOLLOWED BY ONE OR MORE SELF DESCRIBING PIECES OF DATA. | | | | |
| (0) | CHARACTER | 2 | FMHDLENG | LENGTH OF PARAMETER; INCLUDES LENGTH AND TYPE FIELDS |
| (2) | CHARACTER | 1 | FMHDTYPE | PARAMETER TYPE - VALUES SET AS FOLLOWS |
| |1 | | FMHDIOA | "X'01" FLAG SET TO SHOW THAT PARAMETER IS AN I/O AREA |
| |1. | | FMHDSSA | "X'02" FLAG SET TO SHOW THAT PARAMETER IS A SSA |
| |11 | | FMHDPBC | "X'03" FLAG SET TO SHOW THAT PARAMETER IS A PCB |
| |1.. | | FMHDKEY | "X'04" FLAG SET TO SHOW THAT PARAMETER IS A KEY |
| |1.1 | | FMHDSTFN | "X'05" Flag set to show that parameter is a STATFUNC |
| |11. | | FMHDSRTK | "X'06" Flag set to show that parameter is a SRTOKEN |
| |111 | | FMHDSCHD | "X'07" Flag set to show that parameter is a SCHEDINFO |
| | 1... | | FMHDAIB | "X'08" Flag set to show that parameter is a AIB |
| (3) | CHARACTER | 256 | FMHDPARM (0) | THE PARAMETER ITSELF; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDAREA (0) | THE I/O AREA; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDPSSA (0) | THE SEGMENT SEARCH ARGU- MENT; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 256 | FMHDPPCB (0) | THE PCB VIEW DESCRIPTOR; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE |
| (3) | CHARACTER | 4 | FMHDNTNT | PROCESSING INTENT FOR THIS DATA BASE |
| (7) | CHARACTER | 4 | FMHDMKYL | MAXIMUM KEY LENGTH FOR THIS PCB (BINARY) |
| (B) | CHARACTER | 4 | FMHDSEGS | NUMBER OF SENSITIVE SEGMENTS (BINARY) |
| | 1111 | | LFMHVDV | "*-FMHDLENG" LENGTH OF THE FIXED PART OF THE VIEW DESCR (PCB) |
| (0) | CHARACTER | 8 | FMHDDBDN (0) | DBD NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG |
| (0) | CHARACTER | 2 | FMHDSAMX (0) | MAX SSA SIZE - VARIABLE PARAM - 2 BYTES LONG |
| (0) | CHARACTER | 2 | FMHDIOMX (0) | MAX I/O AREA SIZE - VAR IABLE PARAM - 2 BYTES LONG |
| (0) | CHARACTER | 2 | FMHDSTC (0) | Status Codes- Variable parameter - 2 bytes long |
| (0) | CHARACTER | 8 | FMHDBORG (0) | Database Organisation -Var iable param - 8 bytes long |
| (0) | CHARACTER | 8 | FMHDPBCN (0) | Real PCBNAME -Var iable param - 8 bytes long |
| | ..11 ..11 | | MAXLVDV | "LFMHVDV+1+L'FMHDDBDN+1+L'FMHDSAMX+1+L'FMHDIOMX+1+L'FMHDS |
| GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR VIEW DESCRIPTOR | | | | |
| (3) | CHARACTER | 256 | FMHDPKEY (0) | THE FULLY CONCATENATED KEY FOR THIS OPERATION; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE |
| DLIDBS FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REQUESTS X'4002' GROUP AND FUNCTION | | | | |
| (0) | CHARACTER | 8 | LF064002 FMHDPSBN (0) MF064002 | "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG "LF064002+1+L'FMHDPSBN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PSB FMH |
| DLIDBSR FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REPLIES X'4004' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | FMHDSRCS (0) | DL/I RETURN CODES |
| (6) | CHARACTER | 1 | FMHDSRC1 | DL/I RETURN CODE WITH BITS SET AS FOLLOWS |
| | 1... | | FMHDNOPN | "X'80" DATA BASE NOT OPEN |
| | .1. | | FMHDNFND | "X'40" PSB NOT FOUND |
| | .1. | | FMHDNACT | "X'20" DL/I NOT ACTIVE |
| | ...1 | | FMHDFAIL | "X'10" PSB INITIALIZATION FAILED |
| | 1... | | FMHDNAUT | "X'08" UNAUTHORIZED ACCESS TO PSB |
| |1. | | FMHDCONF | "X'04" INTENT SCHEDULE CONFLICT |
| |1. | | FMHDIPCB | "X'02" Invalid PCB Request E.G. IOPCB for Local PSB BIT6 RESERVED BIT7 RESERVED |
| (7) | CHARACTER | 1 | FMHDSRC2 LF064004 | RESERVED "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIREPL FUNCTION MANAGEMENT HEADER USED FOR DL/I REPL REQUESTS X'4006' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | FMHDPCBI LF064006 | THE INDEX FOR THIS PCB "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLISRT FUNCTION MANAGEMENT HEADER USED FOR DL/I ISRT REQUESTS X'4008' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | LF064008 | see definition for FMHDPCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIDLET FUNCTION MANAGEMENT HEADER USED FOR DL/I DLET REQUESTS X'400A' GROUP AND FUNCTION | | | | |
| (6) | CHARACTER | 2 | LF06400A | see definition for FMHDPCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--|-----|--------------------------|--|
| | DLIGU FUNCTION MANAGEMENT HEADER USED FOR DL/I GU REQUESTS X'4010' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF064010 | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIGHU FUNCTION MANAGEMENT HEADER USED FOR DL/I GHU REQUESTS X'4012' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF064012 | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GN REQUESTS X'4014' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF064014 | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIGHN FUNCTION MANAGEMENT HEADER USED FOR DL/I GHN REQUESTS X'4016' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF064016 | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIGNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GNP REQUESTS X'4018' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF064018 | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIGHNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GHNP REQUESTS X'401A' GROUP AND FUNCTION | | | |
| (6) | CHARACTER 1... | 2 | LF06401A | see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| | DLIDBXHR FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (SUCCESSFUL GET REQUESTS) X'401C' GROUP AND FUNCTION | | | |
| (6) | CHARACTER | 2 | FMHDCRDS (0) | DL/I RETURN CODES |
| (6) | CHARACTER | 1 | FMHDCRD1 | DL/I RETURN CODE WITH BITS SET AS FOLLOWS |
| | FMHDNOPN EQU X'80' DATA BASE NOT OPEN BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED | | | |
| (7) | CHARACTER.... .1.. | 1 | FMHDNVRQ | "X'04" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED RESERVED |
| (8) | CHARACTER | 2 | FMHDSEGL | SEGMENT LEVEL (BINARY) |
| (A) | CHARACTER 11.. | 2 | FMHDSTCD LF06401C | STATUS CODES "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER ...1 .1.1 | 8 | FMHDSEGN (0) MF06401C | THE SEGMENT NAME IS FROM ONE TO EIGHT CHARACTERS "LF06401C+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBXHR FMH |
| | DLIDBSTS FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (UNSUCCESSFUL GET REQUESTS AND (UN)SUCCESSFUL REPL/ISRT/DLET REQUESTS) X'401E' GROUP AND FUNCTION | | | |
| (6) | CHARACTER | 2 | (0) | see definition for FMHDCRDS |
| (6) | CHARACTER | 1 | | see definition for FMHDCRD1 |
| (7) | CHARACTER | 1 | | see definition for FMHDCRD2 |
| (8) | CHARACTER | 2 | | see definition for FMHDSEGL |
| (A) | CHARACTER 11.. | 2 | LF06401E | see definition for FMHDSTCD "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER ...1 .1.1 | 8 | (0) MF06401E | see definition for FMHDSEGN "LF06401E+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBSTS FMH |
| | DLIDEQ FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REQUESTS X'4020' GROUP AND FUNCTION | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------------------|-----|-----------------------|---|
| (6) | CHARACTER 1... | 2 | LF064020 | PCB index **DFHFMHDS" Length of fixed part |
| (8) | ADDRESS | 2 | | Length of view descriptor |
| (A) | BITSTRING | 1 | | I/O area type View descriptor |
| (B) | BITSTRING 11.. | 1 | MF064020 | I/O area (1 byte) **DFHFMHDS" Maximum length of this header |
| DLIDEQR Function Management Header Used for DL/I DEQ REPLIES X'4022' Group and Function | | | | |
| (6) | CHARACTER | 2 | | FMHRCDS |
| (8) | CHARACTER 1.1. | 2 | FMHDESTC LF064022 | DL/I Status Code **DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| DLIDBSI Function Management Header Used for DL/I Schedule requests with IOPCB X'4024' Group and Function | | | | |
| (6) | CHARACTER 111. | 8 | FMHSIPSNM LF064024 | PSB Name **DFHFMHDS" |
| (0) | CHARACTER | 2 | | FMHLENG |
| (2) | CHARACTER | 1 | | FMHDTYPE |
| (3) | CHARACTER | 12 | FMHDPSCH (0) | |
| (3) | CHARACTER | 8 | FMHDIOPC | |
| (C) | HALFWORD | 2 | FMHDNBA | |
| (E) | HALFWORD ...1 11.1 | 2 | FMHDOBA MF064024 | "LF064024+2+1+L'FMHDPSCH" |
| DLILOG Function Management Header User for DL/I LOG requests X'4026' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF064026 | PCB index **DFHFMHDS" |
| DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF064028 | PCB index **DFHFMHDS" |
| (0) | CHARACTER | 2 | | FMHLENG |
| (2) | CHARACTER | 1 | | FMHDTYPE |
| (3) | CHARACTER | 9 | FMHDPSTA (0) | |
| (3) | CHARACTER | 4 | FMHDSTTY | |
| (7) | CHARACTER | 1 | FMHDSTFO | |
| (8) | CHARACTER ...1 .1.. | 4 | FMHDSTRE MF064028 | "LF064028+2+1+L'FMHDPSTA" |
| DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF06402A | PCB index **DFHFMHDS" |
| DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF06402C | PCB index **DFHFMHDS" |
| (0) | CHARACTER | 4 | FMHDPSRT | |
| DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF06402E | PCB index **DFHFMHDS" |
| DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function | | | | |
| (6) | CHARACTER 1... | 2 | LF064030 | PCB index **DFHFMHDS" |
| DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function | | | | |
| (6) | CHARACTER | 2 | | FMHRCDS |
| (8) | CHARACTER 1.1. | 2 | FMHDSSCD LF064032 | Status Code **DFHFMHDS" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|--------------|---|
| | DLIINTR Function Management Header User for DL/I INIT Reply X'4034' Group and Function | | | |
|11. | | | LF064034 | "-DFHFMHDS" |
| | DLICMD Function Management Header User for DL/I ICMD requests X'4036' Group and Function | | | |
| (6) | CHARACTER | 2 | LF064036 | PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part |
| 1... | | | | |
| | DLIAOIR Function Management Header User for DL/I ICMD, RCMD, GMSG Reply X'4038' Group and Function | | | |
| (6) | CHARACTER | 2 | LF064038 | FMHRCDS "-DFHFMHDS" |
| 1... | | | | |
| | DLIRCMD Function Management Header User for DL/I RCMD requests X'403A' Group and Function | | | |
| (6) | CHARACTER | 2 | LF06403A | PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part |
| 1... | | | | |
| | DLIGMSG Function Management Header User for DL/I GMSG requests X'403C' Group and Function | | | |
| (6) | CHARACTER | 2 | LF06403C | PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part |
| 1... | | | | |
| | DLIINQY Function Management Header User for DL/I INQY requests X'403E' Group and Function | | | |
| (6) | CHARACTER | 2 | LF06403E | PCB index (zero for INQY) "-DFHFMHDS" Length of fixed part |
| 1... | | | | |
| | TYPE 7 FUNCTION MANAGEMENT HEADERS | | | |
| (6) | CHARACTER | 1 | FMHELOG (0) | LUTYPE 6.2 ERROR LOG |
| 1... .. | | | FMHELOG1 | "X'80" GDS DATA VARIABLE |
| .... .. |  |  | FMHELOG0 | "X'00" NO GDS DATA VARIABLE |
| (6) | CHARACTER | 2 | FMHSMNUM | MESSAGE NUMBER |
| 1... | | | LFMHSM | "-DFHFMHDS" LENGTH OF ARCHITECTED T7 FMH |
| (8) | CHARACTER | 1 | FMHSMSTD (0) | END OF ARCHITECTED T7 FMH |
| (8) | CHARACTER | 4 | FMHSMCCD | CICS ABEND CODE |
| (C) | CHARACTER | 5 | FMHSMDCD | DL/I ABEND CODE |
| ...1 ...1 | | | LFMHSMDL | "-DFHFMHDS" LENGTH OF MM T7 FMH |
| | TYPE 10 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF SYNCPOINT MANAGEMENT SYNCPOINT FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION | | | |
|1. | | | FMHPGPSY | "X'02" SYNCH POINT GROUP |
|1. | | | FMHPGPPR | "X'02" PREPARE SUBGROUP |
| (4) | BITSTRING | 1 | FMHPRSV1 | RESERVED '00' |
| (5) | BITSTRING | 1 | FMHPPTYP | PREPARE TYPE |
| .... .. |  |  | FMHPPTFL | "X'00" PREPARE WITH KEEP FLOW |
|1. | | | FMHPPTCB | "X'01" PREPARE WITH REQUEST EB |
|1. | | | FMHPPTCD | "X'02" PREPARE WITH REQUEST CD |
|11. | | | LF0A0202 | "-DFHFMHDS" LENGTH |
| | TYPE 12 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF BIND TIME SECURITY TRANSFORMED PASSWORD FUNCTION MANAGEMENT HEADER ---- GROUP AND FUNCTION NOT SUPPORTED | | | |
| (2) | BITSTRING | 8 | FMHVTPW | TRANSFORMED PASSWORD |
| 1.1. | | | LFFMHV | "-DFHFMHDS" LENGTH |
| | TYPE 43 FUNCTION MANAGEMENT HEADERS CICS PRIVATE HEADERS THE FUNCTION MANAGEMENT HEADER FOR A CICS REQUEST OR REPLY. SINCE THIS IS A PRIVATE FMH, THE DIRECTION OF TRANSMISSION DETERMINES WHETHER IT REPRESENTS A REQUEST OR A REPLY. | | | |
|11. | | | LFMHCICS | "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER |
| (0) | CHARACTER | 14 | FMHCOPTS (0) | FOR OUTBOUND REQUESTS - THE EXISTENCE AND TCA BITS FROM ARG0 |
| (0) | CHARACTER | 9 | FMHCINVP (0) | For outbound DPL requests - the name of the invoking program |
| (0) | CHARACTER | 7 | FMHCRUDE (0) | FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (0) | CHARACTER | 5 | FMHCTRR (0) | FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM |
| THIS FMH IS FOLLOWED BY ZERO OR MORE DATA VARIABLES WHICH REPRESENT ARGUMENTS TO AN EXEC CICS COMMAND. NOT ALL ARGUMENTS WILL BE SENT AND FURTHERMORE THE VALUES TRANSMITTED WILL DEPEND ON THE FUNCTION AND DIRECTION OF TRANSMISSION. | | | | |
| (0) | CHARACTER | 2 | FMHCARGL | LENGTH OF PARAMETER; INCLUDES LENGTH AND ARGNO FIELDS |
| (2) | CHARACTER | 1 | FMHCARGN | ARGUMENT NUMBER; ARG3 IS REPRESENTED BY VALUE X'06' |
| (3) | CHARACTER | 256 | FMHCARGV (0) | THE ARGUMENT ITSELF; IT MAY BE, FOR EXAMPLE, A KEY |

FMI Function and module identifiers

MODULE NAME = DFHFMIPI
 DESCRIPTIVE NAME = CICS FUNCTION AND MODULE IDENTIFIERS
 All names defined in DFHFMIPI form part of the Product-Sensitive Programming Interface.
 FUNCTION AND MODULE IDENTIFIERS
 (SEE FOLLOWING DSECTS: DFHDWEDS,DFHJCADS,DFHJCR)
 FUNCTION IDENTIFIERS
 X'20' PLUS X'8-' ...USE FOR AUTOMATIC JOURNALING
 X'40' PLUS X'8-' ...USE FOR AUTOMATIC LOGGING
 X'E0' thru X'FF' are reserved for Sync-Point logging
 (MUST BE PRESENT IN 'LOGGABLE' DWE'S)
 DFHFMIPI CONSTANTS
 JOURNAL CONTROL

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------|-----|------------|---------------------------------|
| 1 | HEX | 80 | FIDJCLAB | JOURNAL CONTROL LABEL |
| FILE CONTROL | | | | |
| 1 | HEX | 40 | FIDALOG | AUTOMATICALLY LOGGED |
| 1 | HEX | 20 | FIDAJRN | AUTOMATICALLY JOURNALLED |
| 1 | HEX | 10 | FIDMASS | MASSINSERT REQ (FIDFCWA ONLY) * |
| 1 | HEX | 80 | FIDFCRO | FILE CONTROL READ-ONLY |
| 1 | HEX | 81 | FIDFCRU | FILE CONTROL READ-UPDATE |
| 1 | HEX | 82 | FIDFCWU | FILE CONTROL WRITE-UPDATE |
| 1 | HEX | 83 | FIDFCWA | FILE CONTROL WRITE-ADD |
| 1 | HEX | 84 | FIDFCWAC | FILE CONTROL WRITE-ADD-COMP * |
| 1 | HEX | 86 | FIDFCWD | FILE CONTROL WRITE-DELETE * |
| 1 | HEX | 88 | FIDFCBOF | Backout Failed Log Record * |
| 1 | HEX | 8F | FIDFCDSN | Dsname record * |
| NOTE THAT FID VALUES (AS ABOVE) ARE OFTEN USED BOTH TO IDENTIFY THE FUNCTION OF THE DWE AND THE FUNCTION OF THE LOG RECORD. IN THE CASE OF THE FIDFC EQU'S ABOVE, THEY ARE USED FOR LOG RECORDS ONLY. | | | | |
| SPECIAL FEATURES FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 80 | FIDPSOPC | CONTINUOUS LOGICAL SPOOLOPEN |
| 1 | HEX | 81 | FIDPSWRC | CONTINUOUS LOGICAL SPOOLWRITE |
| 1 | HEX | 82 | FIDPSCLC | CONTINUOUS LOGICAL SPOOLCLOSE |
| 1 | HEX | 83 | FIDPSOPS | STANDARD SPOOLOPEN |
| INTERVAL CONTROL FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 50 | FIDICPDF | INTERVAL CONTROL PUT,DEFER |
| 1 | HEX | 80 | FIDICRGT | RESTART GET. |
| 1 | HEX | 90 | FIDICCAN | COPY OF CANCELLED ICE |
| 1 | HEX | 08 | FIDICDB | CKOUT MASK |
| BMS FUNCTION IDENTIFIERS:- | | | | |
| 1 | HEX | 81 | FIDBMPM | BMS - PARTIAL MESSAGE ON |
| 1 | HEX | 82 | FIDBMODS | BMS - OPEN DATA SET ON |
| TERMINAL CONTROL FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | F0 | FIDTCML | SYNC POINT - LOG SEQUENCE |
| 1 | HEX | 01 | FIDTCDWL | DEFERRED WRITE DATA |
| 1 | HEX | 02 | FIDTCFMH | FUNCTION MANAGEMENT |
| 1 | HEX | 04 | FIDTCDIP | DIP REQUEST |
| 1 | HEX | 08 | FIDTCDB | DYNAMIC BACKOUT MASK |
| 1 | HEX | 40 | FIDTCAL | AUTOMATIC LOGGING MASK |
| 1 | HEX | 20 | FIDTCAJ | AUTOMATIC JOURNALING MASK |
| 1 | HEX | 80 | FIDTCTL | SEQUENCE NUMBER ONLY |
| 1 | HEX | 81 | FIDTCIM | INPUT MESSAGE (LOG AND |
| 1 | HEX | 82 | FIDTCOM | OUTPUT MESSAGE (JOURNAL |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------|-----|------------|--------------------------------|
| 1 | HEX | 83 | FIDTCWP | WRITE WAS PURGED (LOG |
| 1 | HEX | 84 | FIDTCP RR | POSITIVE RESPONSE |
| 1 | HEX | 85 | FIDTCIMF | INPUT MESSAGE (W/FMH, |
| 1 | HEX | 86 | FIDTCOMN | OUTPUT MESSAGE, (W/O |
| 1 | HEX | 87 | FIDTC ON | OUTPUT MESSAGE, FMH, |
| 1 | HEX | 88 | FIDTC ONN | OUTPUT MESSAGE, W/O FMH, |
| 1 | HEX | 89 | FIDTCUA | INITIAL TCT USER AREA |
| 1 | HEX | 8A | FIDTCEIB | INITIAL EXEC COMM AREA |
| 1 | HEX | 8B | FIDTCIMN | IN MSG, NO FMH, DATA COMPLT * |
| 1 | HEX | 8C | FIDTCINN | IN MSG, NO FMH, DATA -COMPLT * |
| GENERAL PURPOSE SUBTASK FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | 80 | FIDSKDF | DEFAULT FUNCTION CODE |
| Front-End Programming Interface FUNCTION IDENTIFIERS | | | | |
| 1 | HEX | F0 | FIDFEPIN | FEPI Inbound API-<FEPI |
| 1 | HEX | F1 | FIDFEPOU | FEPI Outbound API->FEPI |
| MODULE IDENTIFIERS (MAY BE X'01'-->'X'FF'.) | | | | |
| 1 | HEX | 08 | MODIDIC | INTERVAL CONTROL |
| 1 | HEX | 10 | MODIDTC | TERMINAL CONTROL |
| 1 | HEX | 11 | MODIDFC | FILE CONTROL |
| 1 | HEX | 13 | MODIDTS | TEMPORARY STORAGE |
| 1 | HEX | 14 | MODIDFCJ | FILE CONTROL JOURNALLING * |
| 1 | HEX | 40 | MODIDBM | BASIC MAPPING |
| 1 | HEX | 45 | MODIDJC | JOURNAL CONTROL |
| 1 | HEX | 53 | MODIDPS | SPECIAL FEATURES |
| 1 | HEX | 5B | MODIDTMP | TABLE MANAGER |
| 1 | HEX | 5C | MODIDSKP | SUBTASK MANAGER |
| 1 | HEX | 5D | MODIDFEP | Front-End Prog Inter |
| 1 | HEX | FF | MODIDUSR | RESERVED FOR USER SYNC |

FRABC File request anchor block

CONTROL BLOCK NAME = DFHFRABC
DESCRIPTIVE NAME = CICS File Request Anchor Block (FRAB)
FUNCTION =

DFHFRABC describes the DSECT for the File Request Anchor Block. This block serves as an anchor for the set of File Lasting Access Blocks (FLABs) belonging to a particular transaction. The File Request Thread Elements (FRTes) are chained from the FLABs. The FRAB identifies the transaction to which a given File Control request belongs.

The File Request Anchor Block is built by File Control as part of processing of the first File Control request in a transaction. The storage for the FRAB is obtained from a FRAB storage subpool, created by DFHFICRP during File Control initialisation. The address of the FRAB is then used as the Recovery Manager token associated with the client name 'FC'.

The File Request Anchor Block is deleted after all the FLABs have been processed during SYNCPOINT at transaction termination. At the same time, the Recovery Manager token is reset to zero. At this point, the FRAB storage is not returned to the FRAB storage subpool, but is instead added to a chain of free FRABs, addressed by the FC_STATIC_FRAB_FREE_CHAIN pointer in FC static. Subsequent requests to build a FRAB are, if possible, satisfied by a quick cell mechanism from this chain.

LIFETIME =

Normal creation is when the first File Control Request for a transaction is processed.

A FRAB is also created if a failure occurs during phase 2 of an intermediate syncpoint: the original FRAB for the transaction is shunted along with the failed parts of the unit of work, and the new FRAB is passed on to the next unit of work in the transaction.

FRABs are deleted at transaction termination (for a shunted FRAB this will be at termination of the transaction which was created in order to retry the failure).

If a UOW is shunted, the FRAB is shunted with it, unless there was no recoverable File Control work in the unit of work.

When CICS is warm or emergency restarted, FRABs will be rebuilt for any units of work which had made file control updates that were not committed at the time of the CICS termination.

Note that if new fields are added to the FRAB, DFHFICR must be modified to rebuild these fields.

STORAGE CLASS =

Above 16M line. CICS key.

LOCATION =

Issuing an INQUIRE_WORK_TOKEN to the recovery manager with client name 'FC' returns the address of the File Request Anchor Block.

INNER CONTROL BLOCKS =

IFGLUWID

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------|-----------|-----|-----------------------------|---|
| (0) | STRUCTURE | 248 | DFHFRABC | |
| Eye catcher | | | | |
| (0) | CHARACTER | 16 | FRAB_EYE_CATCHER | Eye catcher |
| (0) | UNSIGNED | 2 | FRAB_LENGTH | Length of FRAB |
| (2) | CHARACTER | 6 | FRAB_EYE1 | >DFHFC FC 'domain' |
| (8) | CHARACTER | 8 | FRAB_EYE2 | FRAB |
| Main part of FRAB | | | | |
| (10) | CHARACTER | 232 | FRAB_MAIN_PART | Main part of FRAB |
| (10) | ADDRESS | 4 | FRAB_NEXT_ FRAB_ADDRESS | |
| | | | | Ptr to next FRAB in FRAB chain |
| (10) | ADDRESS | 4 | FRAB_FREE_ FRAB_ADDRESS | |
| | | | | Next FRAB in FC static free chain. |
| (14) | ADDRESS | 4 | FRAB_PREV_ FRAB_ADDRESS | |
| | | | | Pointer to previous FRAB in FRAB chain |
| (18) | ADDRESS | 4 | FRAB_FLAB_ CHAIN_ADDRESS | |
| | | | | Pointer to start of FLAB chain for current transaction. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|----------------------|-----|-----------------------------------|---|
| (1C) | ADDRESS | 4 | FRAB_FLLB_CHAIN_ADDRESS | Pointer to start of FLLB chain for current transaction. |
| (20) | ADDRESS | 4 | FRAB_EXCL_VSWA | VSWA that suffered excl control conflict for this task. |
| (24) | ADDRESS | 4 | FRAB_TRANSACTION_TOKEN | |
| (28) | FULLWORD | 4 | FRAB_UPDATE_TOKEN | Current transaction's transaction token (TCA address) Current update token |
| Data tables section of FRAB | | | | |
| (2C) | ADDRESS | 4 | FRAB_DT_UOW_TOKEN | Data tables recovery token |
| Recovery-related section of FRAB | | | | |
| (30) | BITSTRING 1... .. | 1 | FRAB_FLAGS FRAB_RLS_LOCKS_HELD | Assorted flags IDALKREL is required |
| | .1.. .. | | FRAB_NON_RLS_LOCKS_HELD | NQ Manager DEQ is required |
| | ..1. | | FRAB_HAS_BEEN_SHUNTED | UOW has been shunted at least once |
| | ...1 | | FRAB_UOWID_SET | UOW has been recorded in FRAB |
| | 1... | | FRAB_PHASE_2_SYNC | UOW has been through ph2 of syncpoint |
| |1.. | | FRAB_REQUEST_FORGET | Request_forget has been issued |
| |11 | | * | Reserved |
| (31) | CHARACTER | 3 | * | Reserved |
| (34) | ADDRESS | 4 | FRAB_FCUP_CHAIN_ADDRESS | Pointer to start of FCUP chain |
| RLS section of FRAB | | | | |
| (38) | CHARACTER | 1 | * | Reserved |
| (3A) | UNSIGNED | 2 | FRAB_RLS_TIMEOUT | Timeout value |
| (3C) | FULLWORD | 4 | FRAB_SERVER_SEQUENCE | Sequence number of server at time FRAB created. |
| (40) | CHARACTER | 4 | FRAB_TRANNUM | Transaction # for deadlock/timeout pd |
| (44) | CHARACTER | 4 | FRAB_TRANID | Transaction id for deadlock/timeout pd |
| (48) | CHARACTER | 96 | FRAB_LUWID | RLS Luwid |
| (A8) | CHARACTER | 80 | FRAB_VSAM_WORKAREA | VSAM workarea |
| (A8) | FULLWORD | 4 | *(20) | (20 words) |
| (F8) | CHARACTER | | * | Align to double word boundary |

```

MACRO NAME: IFGLUWID
DESCRIPTION: Mapping the Logical Unit of Work ID Control Block
STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
FUNCTION = Mapping Macro for Logical Unit of Work ID
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
  
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|----------------------|-----|----------------------|---|
| (0) | STRUCTURE | 96 | IFGLUWID | |
| (0) | CHARACTER | 16 | LUWIDHDR | |
| (0) | CHARACTER | 8 | LUWIDID | Eye Catcher - IFGLUWID |
| (8) | FULLWORD | 4 | LUWIDLEN | Control Block Length |
| (C) | UNSIGNED | 1 | LUWIDVER | Version Identifier |
| (D) | CHARACTER | 3 | * | Reserved |
| (10) | CHARACTER | 8 | LUWIDVAL | Logical Unit Of Work ID |
| (18) | CHARACTER | 36 | LUWIDPDI | deadlock/timeout problem |
| determination information | | | | |
| (18) | BITSTRING 1... .. | 1 | LUWIDFL1 LUWIDNDL | first flag field '1'= LUWID is not a preferred |
| deadlock victim | | | | |
| (19) | CHARACTER | 3 | * | reserved |
| (1C) | CHARACTER | 32 | LUWIDPD | Deadlock/time out problem |
| determination data area | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-----------------------------|
| (3C) | UNSIGNED | 4 | LUWIDWLM | WLM transaction token or 0 |
| The LUWID should be on a dblword boundary. In PL/X, if LIKE is used, LIKE must specify BDY(DWORD). To avoid potential problems with how the user gets the LUWID block, whether PL/X or ASM, VSAM will save result of TIMEUSED in a BDY(DWORD) internal field and then move to LUWIDCPU | | | | |
| (40) | CHARACTER | 8 | LUWIDCPU | Total CPU time used by the |
| current SRB up until TIMEUSED is issued. Time used by TCB is NOT included. (Field must be cleared by user before issuing a VSAM request. Field is not available until the VSAM request is complete. For SYN,RLSWAIT, field is available when control is returned from RLSWAIT exit. For ASY requests, field is available when CHECK completes. VSAM may not be able to set this field if Cancel or ABEND occurs, or TIMEUSED fails.) | | | | |
| (48) | ADDRESS | 4 | LUWIDSV A | Ptr to a 20-word BDY(DWORD) |
| user-provided area required for VSAM to use TIMEUSED | | | | |
| (4C) | FULLWORD | 4 | * (5) | Reserved, unused |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|----------|----------|----------------|
| 8 | CHARACTER | | LUWIDNUL | Null LUWID |
| 8 | CHARACTER | IFGLUWID | LUWIDIDC | Eyecatcher |
| 1 | DECIMAL | 1 | LUWIDVRC | Version Number |

FRTEC File request thread element

CONTROL BLOCK NAME = DFHFRTTEC
 DESCRIPTIVE NAME = CICS File Request Thread Element
 FUNCTION =
 DFHFRTTEC describes the dsect for File Request Thread Elements (FRTEs). These elements are used to represent active File Control Requests. They are also used to reconcile related requests (eg READ_UPDATE -> REWRITE). FRTEs are created by DFHFRCFR and hung off a chain for the particular file within a given task and environment. The FRTE is created at the start of the request thread and destroyed at the end of the request thread. For example, a FRTE is created on a STARTBR and destroyed by an ENDBR.

LIFETIME =
 For the duration of the File Control request thread.

STORAGE CLASS =
 Above 16M line. CICS key.

LOCATION =
 Issuing an INQUIRE_WORK_TOKEN to the recovery manager returns the address of the FRAB. The FRAB contains the address of the head of the FLAB chain for this task. Each FLAB addresses the chain of active FRTEs for that specific file and environment.

INNER CONTROL BLOCKS =
 DFHSETC

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------|-----------|-----|---------------------------|-------------------|
| (0) | STRUCTURE | 108 | DFHFRTTE | |
| Eye catcher | | | | |
| (0) | CHARACTER | 16 | FRT_EYE_CATCHER | Eye catcher |
| (0) | HALFWORD | 2 | FRT_LENGTH | length of FRTE |
| (2) | CHARACTER | 6 | FRT_EYE1 | >DFHF FC 'domain' |
| (8) | CHARACTER | 8 | FRT_EYE2 | FRTE |
| Main part of FRTE | | | | |
| (10) | CHARACTER | 88 | FRT_MAIN_PART | Main part of FRTE |
| (10) | ADDRESS | 4 | FRT_NEXT_ FRTE_ADDRESS | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------------------------|---|
| (10) | ADDRESS | 4 | FRT_FREE_ FRTE_ADDRESS | Pointer to next FRTE in chain for current file. |
| (14) | ADDRESS | 4 | FRT_FLAB_ADDRESS | Next FRTE in FC static storage free chain. |
| (18) | CHARACTER | 1 | FRT_FUNCTION | Address of FLAB that owns this FRTE. |
| (19) | BITSTRING | 1 | FRT_FLAGS | Function byte - see CONSTANT definitions |
| | 1... .. | | FRT_PRIVILEGED | FRTE flag byte |
| | .1.. .. | | FRT_INITIAL_LOAD | Privileged request |
| | ..1. | | FRT_USE_FCDT | Initial loading lock held. |
| | ...1 | | FRT_BACKOUT | Call FCDT if a CMT |
| | 1... | | FRT_CONTINUATION | Backing out |
| |1.. | | FRT_ACCMETH_ MODULE_ACTIVE | This request continues a previous one |
| |1. | | FRT_UMT_LOCK_HELD | The access method dependent module is active |
| |1 | | * | UMT record lock held for frt_key_copy |
| (1A) | UNSIGNED | 2 | FRT_REQID | ...Reserved |
| (1C) | ADDRESS | 4 | FRT_DATA_BUFFER | Browse request ident. |
| (20) | ADDRESS | 4 | FRT_UPDATE_TOKEN | Temporary area to read record into. TOKEN for read update |
| This section of the FRTE describes the work area (VSWA or FIOA) | | | | |
| (24) | ADDRESS | 4 | FRT_WORK_ AREA_ADDRESS | Address of work area i.e. VSWA or FIOA |
| (28) | UNSIGNED | 4 | FRT_WORK_ AREA_LENGTH | Work area length |
| (2C) | CHARACTER | 8 | FRT_WORK_ AREA_SUBPOOL | Work area subpool |
| This section of the FRTE describes SET storage | | | | |
| (34) | CHARACTER | 8 | FRT_SET_CONTROL | Set storage control area. |
| This section of the FRTE is used by data tables | | | | |
| (3C) | ADDRESS | 4 | FRT_KEY_COPY | Key copy area |
| (40) | CHARACTER | 12 | FRT_DT_ RECORD_TOKEN | Table record token |
| (40) | ADDRESS | 4 | FRT_FBWA_ADDRESS | Table browse area |
| (4C) | ADDRESS | 4 | FRT_CF_ CONNECTION_TOKEN | CFDT pool connect token |
| (50) | FULLWORD | 4 | FRT_CF_ INSTANCE_NUMBER | CFDT server instance number |
| This section of the FRTE is temporary and will be removed later | | | | |
| (54) | ADDRESS | 4 | FRT_BCB_ADDRESS | Base Cluster Block addr |
| This section of the FRTE is used by the log and journal program | | | | |
| (58) | ADDRESS | 4 | FRT_FORCE_TOKEN | Token returned from RMRE APPEND & supplied to RMRE FORCE |
| This section of the FRTE is used by RLS. NOTE: frt_ifgluwid_pointer is NOT part of frt_main_part. This ensures that this field is not cleared when the FRTE is reused. The FRTE stays permanently attached the IFGLUWID area. | | | | |
| (5C) | FULLWORD | 4 | FRT_WRMJ_COUNT | no. of massinsert requests to recoverable ESDS. |
| (60) | CHARACTER | 8 | FRT_WRMJ_START_TIME | Time of first massinsert to recoverable ESDS. |
| (68) | ADDRESS | 4 | FRT_IFGLUWID_POINTER | Address of IFGLUWID * area associated with this request thread. |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|------------------|--------------|
| 1 | DECIMAL | 1 | FRT_READ | Read |
| 1 | DECIMAL | 3 | FRT_READ_UPDATE | Read_Update |
| 1 | DECIMAL | 5 | FRT_WRITE | Write |
| 1 | DECIMAL | 8 | FRT_DELETE | Delete |
| 1 | DECIMAL | 10 | FRT_START_BROWSE | Start Browse |

ICE Interval control element

CONTROL BLOCK NAME = DFHICEDS
 DESCRIPTIVE NAME = CICS Interval Control Element (ICE)
 FUNCTION =
 An ICE is created for each time-dependent request received by the interval control program. These ICEs are logically chained from CSAICEBA in the CSA in expiration time-of-day sequence.
 LIFETIME =
 Expiration of a time-ordered request is detected by the expired request logic of the interval control program running as a CICS system task. The type of service represented by the expired ICE is initiated, if all resources required for the service are available, and the ICE is removed from the chain. If the resources are not available, the ICE remains on the chain and another attempt to initiate the request service is made the next time the expiry logic runs.
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =
 The following fields form part of the product sensitive programming interface:
 ICECHNAD ICERQID ICETRMID ICETRNID ICEXTOD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---|
| (0) | STRUCTURE | 200 | DFHICEDS | ICE control block |
| (0) | CHARACTER | 16 | ICEPRFX | ICE prefix |
| (0) | UNSIGNED | 2 | ICELEN | ICE length |
| (2) | CHARACTER | 6 | ICEBLKID | Eye-catcher ('>DFHAP') |
| (8) | CHARACTER | 8 | ICEBLKNM | Control block name ('ICE') |
| (10) | CHARACTER | 8 | ICEBODY | ICE body |
| (10) | ADDRESS | 4 | ICECHNAD | ICE chain address |
| (14) | ADDRESS | 4 | ICETECAA | Timer event area address |
| (18) | ADDRESS | 4 | ICETCAAD | TCA address |
| (18) | CHARACTER | 4 | ICETRMID | Symbolic terminal id |
| (1C) | CHARACTER | 4 | ICETRNID | Transaction identification |
| (20) | CHARACTER | 11 | ICESECSF | Security |
| (20) | UNSIGNED | 1 | ICEUSIDL | Length of userid |
| (21) | CHARACTER | 10 | ICEUSRID | userid |
| (2B) | CHARACTER | 2 | * | Reserved |
| (2D) | CHARACTER | 1 | ICETYPE | Type of ICE |
| (2E) | BITSTRING | 1 | ICESTATI | ICE status indicator |
| | | | ICESTNRL | Expired normally |
| | | | .1.. | |
| | | | .1.. | ICE_BEING_ PROCESSED |
| | | | ..1. | Being processed |
| | | | ...1 | Expired on entry |
| | | | 1... | Cancelled by other task |
| | | |1.. | Expiration time |
| | | |1. | Awaiting DS resume |
| | | |1. | * |
| | | |1 | Reserved |
| (2F) | CHARACTER | 1 | ICESTCHN | On chain |
| (30) | UNSIGNED | 4 | ICERQCLS | Request identification |
| (30) | CHARACTER | 4 | ICE_UNIQUE_ID | Number used to construct unique request id. |
| (34) | CHARACTER | 8 | ICEXTOD | Exp'n time of day |
| (34) | CHARACTER | 8 | ICERQID | Request identification |
| (3C) | CHARACTER | 8 | ICENETSY | Netname/sysid from XICTENF exit |
| (44) | CHARACTER | 8 | ICEMODEN | Mode name |
| (4C) | CHARACTER | 1 | ICETR | Transaction routing indicator |
| (4D) | CHARACTER | 1 | ICEFS | Function shipping indicator |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|---|
| (4E) | BITSTRING | 1 | ICEFLAGS | Flags |
| | 1... .. | | ICESZ | Startcode SZ for FEPI |
| | .1. | | ICEFLATX | Flat_Transuser set |
| | .1. | | ICEUSSET | Transaction user set |
| | ...1 | | ICEDYNTR | Transaction dynamic |
| | 1... | | ICEUSSYS | System userid requested |
| |1.. | | ICE_DATA_RECOVERABLE | |
| |1. | | ICE_ZERO_INTERVAL | ICE is associated with a recoverable TS queue |
| |1 | | ICE_PROTECTED | Originating request specified an INTERVAL of zero |
| (4F) | BITSTRING | 1 | ICEFLAG2 | START was protected |
| | 1... .. | | ICERTST | Flags |
| | .111 1111 | | * | Routable START |
| (50) | CHARACTER | 4 | ICE_USER_TOKEN | Reserved |
| (54) | CHARACTER | 4 | ICECURTR | User token |
| (58) | CHARACTER | 48 | ICEFLATU | Current terminal id |
| (88) | CHARACTER | 12 | ICE_QUALIFIED_EXPIRY_TIME | US domain Flat_Transuser |
| | | | | Expiry time and expiry time qualifier |
| (88) | CHARACTER | 8 | ICE_EXPIRY_TIMES | Absolute expiry times |
| (88) | CHARACTER | 8 | ICE_EXPIRY_STCK | STCK expiry time for an interval ICE |
| (88) | CHARACTER | 8 | ICE_EXPIRY_DT | Date and time of expiry for time ICE |
| (88) | CHARACTER | 4 | ICE_EXPIRY_DATE | ccyyddd+ expiry date for time ICE |
| (8C) | CHARACTER | 4 | ICE_EXPIRY_TIME | Timer unit (1/300sec) expiry TOD for time ICE |
| (90) | CHARACTER | 4 | ICETIMST | Expiry time qualifier |
| (94) | HALFWORD | 2 | ICE_START_DATA_LEN | Length of data |
| (96) | CHARACTER | 2 | * | Reserved |
| (98) | CHARACTER | 8 | ICE_CREATION_TIME | Creation time STCK value |
| (A0) | CHARACTER | | * | |
| (A0) | CHARACTER | 8 | ICE_TERMINAL_NETNAME | Netname of terminal |
| (A8) | CHARACTER | 4 | ICESHSYS | Shipped via sysid |
| (AC) | CHARACTER | 8 | ICE_TOR_NETNAME | Netname of TOR |
| (B4) | ADDRESS | 4 | ICE_ROUTER_COMM_ADDR | |
| | | | | Address of commarea for dynamic routing program |
| (B8) | HALFWORD | 2 | ICE_ROUTER_COMM_LEN | |
| | | | | Length of DYP commarea |
| (BA) | CHARACTER | 4 | ICEDFTRN | Transaction id for deferred dynamic start request |
| (BE) | CHARACTER | 8 | ICEDSRP | Router program name - stored here for ICXM processing to reduce SHRTM calls |
| (C6) | CHARACTER | 2 | * | RESERVED |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------|---------------------------|
| 4 | DECIMAL | 200 | ICEAD | ICE length |
| Possible values of ICETYPE | | | | |
| 1 | HEX | 20 | ICEWTM | ...Wait |
| 1 | HEX | 30 | ICEPST | ...Post |
| 1 | HEX | 40 | ICEINT | ...ICP - initiate request |
| 1 | HEX | 50 | ICEPUT | ...ICP - put data request |
| Values used in DFHIC get wait requests | | | | |
| 1 | DECIMAL | 0 | ICE_GW_DATA | Resumed due to new data |
| 1 | DECIMAL | 4 | ICE_GW_SHUTDOWN | Resumed due to shutdown |

ICUE Interval control EXEC parameter list

CONTROL BLOCK NAME = DFHICUEC

DESCRIPTIVE NAME = CICS EXEC argument list for Interval
Control user exits.

Although provided in a general library, DFHICUED is not
to be used as a general programming interface. Refer to
product documentation to determine intended usage.

The following fields are part of the Product-sensitive
Programming Interface.

IC_ADDR0
IC_ADDR1
IC_ADDR2
IC_ADDR3
IC_ADDR4
IC_ADDR5
IC_ADDR6
IC_ADDR7
IC_ADDR8
IC_ADDR9
IC_ADDRA
IC_ADDRB
IC_ADDRC
IC_ADDRD
IC_ADDRE
IC_ADDRF
IC_ADDR10
IC_GROUP
IC_FUNCT
IC_BITS1
IC_BITS2
IC_BITS3
IC_EIDOPT5
IC_EIDOPT6
IC_EIDOPT7
IC_EIDOPT8
IC_INTERVAL
IC_START_INTERVAL
IC_DELAY_INTERVAL
IC_POST_INTERVAL
IC_TIME
IC_START_TIME
IC_DELAY_TIME
IC_POST_TIME
IC_CANCEL_REQID
IC_RETRIEVE_INT0
IC_RETRIEVE_SET
IC_REQID
IC_DELAY_REQID
IC_POST_REQID
IC_START_REQID
IC_RETRIEVE_LENGTH
IC_POST_SET

IC_TRANSID
IC_CANCEL_TRANSID
IC_START_TRANSID
IC_START_FROM
IC_START_LENGTH
IC_START_TERMID
IC_SYSID
IC_START_SYSID
IC_CANCEL_SYSID
IC_RTRANSID
IC_START_RTRANSID
IC_RETRIEVE_RTRANSID
IC_RTERMID
IC_START_RTERMID
IC_RETRIEVE_RTERMID
IC_QUEUE
IC_START_QUEUE
IC_RETRIEVE_QUEUE
IC_HOURS
IC_DELAY_HOURS
IC_POST_HOURS
IC_START_HOURS
IC_MINUTES
IC_DELAY_MINUTES
IC_POST_MINUTES
IC_START_MINUTES
IC_SECONDS
IC_DELAY_SECONDS
IC_POST_SECONDS
IC_START_SECONDS
IC_START_USERID
IC_START_SYSNET

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface. All remaining fields used in defining the Exec Parameter List are product sensitive and may vary between CICS releases.

FUNCTION =

To define the EXEC parameter list for Interval Control requests, for use by global user exit programs at exit points XICEREQ and XICEREQC.

On entry to the XICEREQ and XICEREQC User Exits, the EXEC parameter list is pointed to by UEPCLPS.

The EXEC parameter list for Interval Control consists of fifteen addresses.

The fifteen addresses are defined by IC_ADDR0 to IC_ADDRE. This DSECT defines IC_ADDR0 to IC_ADDRE and the areas that they point to.

On entry to the XICEREQ and XICEREQC User Exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Interval Control.

LIFETIME = Lifetime of the IC command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
(2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.
(3) The token for use in communicating between XICEREQ and XICEREQC is addressed by UEPIC TOK.

INNER CONTROL BLOCKS =

IC_ADDR_LIST declares the EXEC addresses.
IC_EID defines the EID pointed to by IC_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA
RESTRICTIONS = None
MODULE TYPE = Control Block definition
EXTERNAL REFERENCES =

None.
DATA AREAS =
None.

CONTROL BLOCKS =
None.

GLOBAL VARIABLES (Macro pass) =
None.

The command parameter list is a list of addresses which reference the various elements of the EXEC CICS command. The addresses are only valid if the element is applicable to this command. The existence bits in the EID component (IC_BITS1) specify those addresses that are valid, and the flagword bits (IC_EIDOPT5 - IC_EIDOPT8) specify the keywords that were given in the EXEC CICS command.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|------------------------------|
| (0) | STRUCTURE | 124 | IC_ADDR_LIST | Addresses of... |
| (0) | ADDRESS | 4 | IC_ADDR0 | the EID |
| (4) | ADDRESS | 4 | IC_ADDR1 | TIME or INTERVAL value |
| (DELAY, POST or START) SET address (RETRIEVE) REQID value (CANCEL) | | | | |
| (8) | ADDRESS | 4 | IC_ADDR2 | REQID value |
| (DELAY, POST or START) LENGTH value (RETRIEVE) | | | | |
| (C) | ADDRESS | 4 | IC_ADDR3 | TRANSID value (START,CANCEL) |
| SET address (POST) | | | | |
| (10) | ADDRESS | 4 | IC_ADDR4 | FROM address (START) |
| (14) | ADDRESS | 4 | IC_ADDR5 | LENGTH value (START) |
| (18) | ADDRESS | 4 | IC_ADDR6 | TERMID value (START) |
| (1C) | ADDRESS | 4 | IC_ADDR7 | SYSID value (START,CANCEL) |
| (20) | ADDRESS | 4 | IC_ADDR8 | RTRANSID value |
| (START or RETRIEVE) | | | | |
| (24) | ADDRESS | 4 | IC_ADDR9 | RTERMID value |
| (START or RETRIEVE) | | | | |
| (28) | ADDRESS | 4 | IC_ADDRA | QUEUE value |
| (START or RETRIEVE) | | | | |
| (2C) | ADDRESS | 4 | IC_ADDRB | HOURS value |
| (DELAY, POST or START) | | | | |
| (30) | ADDRESS | 4 | IC_ADDR C | MINUTES value |
| (DELAY, POST or START) | | | | |
| (34) | ADDRESS | 4 | IC_ADDRD | SECONDS value |
| (DELAY, POST or START) | | | | |
| (38) | ADDRESS | 4 | IC_ADDRE | USERID value (START) |
| (3C) | ADDRESS | 4 | IC_ADDRF | System netname |
| (40) | ADDRESS | 4 | IC_ADDR10 | BREXIT value (START) |
| (44) | ADDRESS | 4 | * (12) | Addresses 17-28 |
| (74) | ADDRESS | 4 | IC_ADDR1D | BRDATA address (START) |
| (78) | ADDRESS | 4 | IC_ADDR1E | BRDATALENGTH value (START) |

IC_EID (addressed by IC_ADDR0) gives the request type, and uses bits to identify those keywords that are valid and/or have been explicitly stated in the EXEC CICS command being processed.
Note: Equates for IC_GROUP, IC_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|--------------------------|
| (0) | STRUCTURE | 9 | IC_EID | |
| (0) | CHARACTER | 1 | IC_GROUP | X'10' = Interval Control |
| (1) | CHARACTER | 1 | IC_FUNCT | X'02' = Asktime |
| X'04' = Delay X'06' = Post X'08' = Start X'0A' = Retrieve X'0C' = Cancel | | | | |
| The existence bits specify the parameters that are valid for this command. For example, IC_EXIST7 set on indicates that IC_ADDR7 is valid, meaning that it addresses a SYSID value. IC_ADDR0 is always valid and has no existence bit. | | | | |
| (2) | BITSTRING | 1 | IC_BITS1 | |
| IC_EXIST1 is set if IC_ADDR1 is valid. IC_EXIST1 is always set on DELAY, POST, RETRIEVE and CANCEL commands, or on a CANCEL command which specifies REQID. IC_EXIST1 may only be modified by a user exit program invoked for a CANCEL command. | | | | |
| 1... | .... |  | IC_EXIST1 | |
| 1... | .... |  | IC_TIME_INTERVAL_V | |
| 1... | .... |  | IC_DELAY_ | |
| | | | TIME_INTERVAL_V | |
| 1... | .... |  | IC_POST_ | |
| | | | TIME_INTERVAL_V | |
| 1... | .... |  | IC_START_ | |
| | | | TIME_INTERVAL_V | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------|-------------|
| | 1... .. | | IC_RETRIEVE_ | |
| | | | SET_INT0_V | |
| | 1... .. | | IC_CANCEL_ | |
| | | | REQID_V | |
| IC_EXIST2 is set if IC_ADDR2 is valid. IC_EXIST2 is always set on RETRIEVE commands, or if REQID is specified on a DELAY, POST or START command. IC_EXIST2 may only be modified by a user exit program invoked for a DELAY, POST or START command. | | | | |
| | .1. | | IC_EXIST2 | |
| | .1. | | IC_REQID_V | |
| | .1. | | IC_DELAY_REQID_V | |
| | .1. | | IC_POST_REQID_V | |
| | .1. | | IC_START_REQID_V | |
| | .1. | | IC_RETRIEVE_ | |
| | | | LENGTH_V | |
| IC_EXIST3 is set if IC_ADDR3 is valid. IC_EXIST3 is always set on START and POST commands, or if TRANSID is specified on a CANCEL command. IC_EXIST3 may only be modified by a user exit program invoked for a CANCEL command. | | | | |
| | ..1. | | IC_EXIST3 | |
| | ..1. | | IC_TRANSID_V | |
| | ..1. | | IC_CANCEL_ | |
| | | | TRANSID_V | |
| | ..1. | | IC_START_TRANSID_V | |
| | ..1. | | IC_POST_SET_V | |
| IC_EXIST4 is set if IC_ADDR4 is valid. IC_EXIST4 is set if a START command specifies FROM. IC_EXIST4 may only be modified by a user exit program invoked for a START command. | | | | |
| | ...1 | | IC_EXIST4 | |
| | ...1 | | IC_START_FROM_V | |
| IC_EXIST5 is set if IC_ADDR5 is valid. IC_EXIST5 is set if a START command specifies LENGTH IC_EXIST5 may only be modified by a user exit program invoked for a START command. | | | | |
| | 1... | | IC_EXIST5 | |
| | 1... | | IC_START_LENGTH_V | |
| IC_EXIST6 is set if IC_ADDR6 is valid. IC_EXIST6 is set if a START command specifies TERMID IC_EXIST6 may only be modified by a user exit program invoked for a START command. | | | | |
| |1.. | | IC_EXIST6 | |
| |1.. | | IC_START_TERMID_V | |
| IC_EXIST7 is set if IC_ADDR7 is valid. IC_EXIST7 is set if a START or CANCEL command specifies SYSID. IC_EXIST7 may only be modified by a user exit program invoked for a START or CANCEL command. | | | | |
| |1. | | IC_EXIST7 | |
| |1. | | IC_SYSID_V | |
| |1. | | IC_CANCEL_SYSID_V | |
| |1. | | IC_START_SYSID_V | |
| IC_EXIST8 is set if IC_ADDR8 is valid. IC_EXIST8 is set if a START or RETRIEVE command specifies RTRANSID. IC_EXIST8 may only be modified by a user exit program invoked for a START or RETRIEVE command. | | | | |
| |1 | | IC_EXIST8 | |
| |1 | | IC_RTRANSID_V | |
| |1 | | IC_START_ | |
| | | | RTRANSID_V | |
| |1 | | IC_RETRIEVE_ | |
| | | | RTRANSID_V | |
| IC_BITS2 defines existence bits for keywords containing values. | | | | |
| (3) | BITSTRING | 1 | IC_BITS2 | |
| IC_EXIST9 is set if IC_ADDR9 is valid. IC_EXIST9 is set if a START or RETRIEVE command specifies RTERMID. IC_EXIST9 may only be modified by a user exit program invoked for a START or RETRIEVE command. | | | | |
| | 1... | | IC_EXIST9 | |
| | 1... | | IC_RTERMID_V | |
| | 1... | | IC_START_RTERMID_V | |
| | 1... | | IC_RETRIEVE_ | |
| | | | RTERMID_V | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|--|
| <p>IC_ EXISTA is set if IC_ ADDRA is valid. IC_ EXISTA is set if a START or RETRIEVE command specifies QUEUE. IC_ EXISTA may only be modified by a user exit program invoked for a START or RETRIEVE command.</p> | | | | |
| .1.. | | | IC_EXISTA | |
| .1.. | | | IC_QUEUE_V | |
| .1.. | | | IC_START_QUEUE_V | |
| .1.. | | | IC_RETRIEVE_QUEUE_V | |
| <p>IC_ EXISTB is set if IC_ ADDR8 is valid. IC_ EXISTB is set if a DELAY, POST or START command specifies HOURS. IC_ EXISTB may only be modified by a user exit program invoked for a DELAY, POST or START command.</p> | | | | |
| ..1. | | | IC_EXISTB | |
| ..1. | | | IC_HOURS_V | |
| ..1. | | | IC_DELAY_HOURS_V | |
| ..1. | | | IC_POST_HOURS_V | |
| ..1. | | | IC_START_HOURS_V | |
| <p>IC_ EXISTC is set if IC_ ADDR6 is valid. IC_ EXISTC is set if a DELAY, POST or START command specifies MINUTES. IC_ EXISTC may only be modified by a user exit program invoked for a DELAY, POST or START command.</p> | | | | |
| ...1 | | | IC_EXISTC | |
| ...1 | | | IC_MINUTES_V | |
| ...1 | | | IC_DELAY_MINUTES_V | |
| ...1 | | | IC_POST_MINUTES_V | |
| ...1 | | | IC_START_MINUTES_V | |
| <p>IC_ EXISTD is set if IC_ ADDR4 is valid. IC_ EXISTD is set if a DELAY, POST or START command specifies SECONDS. IC_ EXISTD may only be modified by a user exit program invoked for a DELAY, POST or START command.</p> | | | | |
| 1... | | | IC_EXISTD | |
| 1... | | | IC_SECONDS_V | |
| 1... | | | IC_DELAY_SECONDS_V | |
| 1... | | | IC_POST_SECONDS_V | |
| 1... | | | IC_START_SECONDS_V | |
| <p>IC_ EXISTE is set if IC_ ADDRE is valid. IC_ EXISTE is set if a START command specifies a USERID</p> | | | | |
|1.. | | | IC_EXISTE | |
|1.. | | | IC_START_USERID_V | |
| <p>IC_ EXISTF is set if IC_ ADDR2 is valid IC_ EXISTF is set if a start is for it's PF</p> | | | | |
|1. | | | IC_EXISTF | PF starts |
|1. | | | IC_START_SYSNET_V | |
| <p>IC_ EXIST10 is set if IC_ ADDR10 is valid IC_ EXIST10 is set if START specifies BREXIT with an argument</p> | | | | |
|1 | | | IC_EXIST10 | BREXIT(value) |
|1 | | | IC_START_BREXIT_V | |
| <p>EIDOPT4 Any changes made by the exit are ignored</p> | | | | |
| (4) | BITSTRING | 1 | IC_EIDOPT4 | |
| 1... | | | IC_SYSEIB | Program uses SYSEIB |
| .1.. | | | IC_NOEDF | NOEDF specified |
| .1.. | | | IC_NOHANDLE | NOHANDLE specified |
| ...1 111. | | | * | Language identifying bits |
|1 | | | * | Reserved |
| <p>EIDOPT5 - EIDOPT8 The next 4 bytes are the flagword bits that identify the keywords that were specified on the EXEC CICS command. Some bits have more than one meaning, depending on the command function being processed, and thus have multiple definitions. Do not test these bits unless you know that the keywords are valid for the specific command being processed.</p> | | | | |
| EIDOPT5 | | | | |
| (5) | BITSTRING | 1 | IC_EIDOPT5 | |
| 1111 111. | | | * | Reserved |
|1 | | | IC_RETRIEVE_SET_X | SET (not INTO) specified on a RETRIEVE command. This bit may NOT be modified by a user exit. |
|1 | | | IC_START_ATTACH_X | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|--------------|-----|-------------------------|---|
| ATTACH specified on a START command. This bit may NOT be modified by a user exit. | | | | |
| EIDOPT6 | | | | |
| (6) | BITSTRING | 1 | IC_EIDOPT6 | |
| | 1... .. | | IC_START_ROUTABLE | |
| | .11. | | * | |
| | ...1 | | IC_START_FMH_X | FMH specified on a START cmd. |
| | 11.. | | * | |
| |1. | | IC_START_PROTECT_X | PROTECT specified on a START command. |
| |1 | | IC_START_NOCHECK_X | NOCHECK specified on a START command. |
| EIDOPT7 | | | | |
| (7) | BITSTRING | 1 | IC_EIDOPT7 | |
| | 11.. | | * | Reserved |
| | ..1. | | IC_START_HEADER_X | RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command. |
| | ...1 | | IC_START_DATA_X | FROM, RTRANSID, RTERMID, FMH and/or QUEUE specified on a START command. |
| | 1... | | IC_DELAY_TIME_X | TIME (not INTERVAL) specified on a DELAY command. |
| | 1... .. | | IC_POST_TIME_X | TIME (not INTERVAL) specified on a POST command. |
| | 1... .. | | IC_START_TIME_X | TIME (not INTERVAL) specified on a START command. |
| | 1... .. | | IC_RETRIEVE_WAIT_X | WAIT specified on a RETRIEVE command. |
| |1. | | IC_CANCEL_REQID_X | REQID specified on a CANCEL command. |
| |1. | | IC_DELAY_REQID_X | REQID specified on a DELAY command. |
| |1. | | IC_POST_REQID_X | REQID specified on a POST command. |
| |1. | | IC_START_REQID_X | REQID specified on a START command. |
| |1. | | * | Reserved |
| |1 | | IC_START_TERMID_X | TERMID specified on a START command. |
| EIDOPT8 | | | | |
| (8) | BITSTRING | 1 | IC_EIDOPT8 | |
| | 1... .. | | IC_FORAFTER_X | Command specifies FOR or AFTER |
| | 1... .. | | IC_DELAY_FOR_X | FOR (not UNTIL) specified on a DELAY command. |
| | 1... .. | | IC_POST_AFTER_X | AFTER (not AT) specified on a DELAY command. |
| | 1... .. | | IC_START_AFTER_X | AFTER (not AT) specified on a START command. |
| | ..1. | | IC_ATUNTIL_X | Command specifies AT or UNTIL |
| | ..1. | | IC_DELAY_UNTIL_X | UNTIL (not FOR) specified on a DELAY command. |
| | ..1. | | IC_POST_AT_X | AT (not AFTER) specified on a POST command. |
| | ..1. | | IC_START_AT_X | AT (not AFTER) specified on a START command. |
| | ..1. | | * | Reserved |
| | ...1 | | IC_START_BREXIT_X | START BREXIT |
| | 1... | | IC_START_BRDATA_X | ... with BRDATA |
| |1. | | IC_START_BRDATALENGTH_X | ... and BRDATALENGTH * |
| |11 | | * | |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by IC_ADDR1 - IC_ADDRE in IC_ADDR_LIST.
 IC_DATA1 - Addressed by IC_ADDR1

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 8 | IC_DATA1 | |
| (0) | CHARACTER | 8 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------------|
| (0) | STRUCTURE | 4 | IC_INTERVAL | Value of INTERVAL |
| (0) | CHARACTER | 4 | IC_START_INTERVAL | |
| (0) | CHARACTER | 4 | IC_DELAY_INTERVAL | |
| (0) | CHARACTER | 4 | IC_POST_INTERVAL | |
| (0) | CHARACTER | 4 | IC_TIME | Value of TIME |
| (0) | CHARACTER | 4 | IC_START_TIME | |
| (0) | CHARACTER | 4 | IC_DELAY_TIME | |
| (0) | CHARACTER | 4 | IC_POST_TIME | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-------------------|
| (0) | STRUCTURE | 8 | IC_CANCEL_REQID | Value of REQID on |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------|
| (0) | CHARACTER | 8 | * | a CANCEL command. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--------------------|
| (0) | STRUCTURE | * | IC_RETRIEVE_INT0 | Value of DATA on a |
| (0) | CHARACTER | * | * | RETRIEVE INTO cmd |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------------|
| (0) | STRUCTURE | 4 | IC_RETRIEVE_SET | Pointer for SET on |
| (0) | ADDRESS | 4 | * | a RETRIEVE command |

IC_DATA2 - Addressed by IC_ADDR2

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 8 | IC_DATA2 | |
| (0) | CHARACTER | 8 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------|
| (0) | STRUCTURE | 8 | IC_REQID | Value of REQID |
| (0) | CHARACTER | 8 | IC_DELAY_REQID | Value of REQID on a DELAY cmd |
| (0) | CHARACTER | 8 | IC_POST_REQID | Value of REQID on a POST cmd |
| (0) | CHARACTER | 8 | IC_START_REQID | Value of REQID on a START cmd |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-----------------------------------|
| (0) | STRUCTURE | 2 | IC_RETRIEVE_LENGTH | Value of LENGTH on a RETRIEVE cmd |
| (0) | HALFWORD | 2 | * | |

WARNING For requests that specify INTO do not change the value of IC_RETRIEVE_LENGTH to a value greater than that specified by the application. To do so causes a storage overlay in the application.
IC_DATA3 - Addressed by IC_ADDR3

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|----------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA3 | |
| (0) | ADDRESS | 4 | IC_POST_SET | SET address on a POST command |
| (0) | CHARACTER | 4 | IC_TRANSID | Value of TRANSID |
| (0) | CHARACTER | 4 | IC_CANCEL_TRANSID | Value of TRANSID on a CANCEL cmd |
| (0) | CHARACTER | 4 | IC_START_TRANSID | Value of TRANSID on a START cmd |

IC_DATA4 - Addressed by IC_ADDR4

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------------------|
| (0) | STRUCTURE | * | IC_DATA4 | |
| (0) | CHARACTER | * | IC_START_FROM | Data on a START command |

IC_DATA5 - Addressed by IC_ADDR5

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------------------------|
| (0) | STRUCTURE | 2 | IC_DATA5 | |
| (0) | HALFWORD | 2 | IC_START_LENGTH | Length of data on a START cmd |

IC_DATA6 - Addressed by IC_ADDR6

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA6 | |
| (0) | CHARACTER | 4 | IC_START_TERMID | Value of TERMID on a START cmd |

IC_DATA7 - Addressed by IC_ADDR7

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA7 | |
| (0) | CHARACTER | 4 | IC_SYSID | Value of SYSID |
| (0) | CHARACTER | 4 | IC_START_SYSID | Value of SYSID on a START cmd |
| (0) | CHARACTER | 4 | IC_CANCEL_SYSID | Value of SYSID on a CANCEL cmd |

IC_DATA8 - Addressed by IC_ADDR8

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|-------------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA8 | |
| (0) | CHARACTER | 4 | IC_RTRANSID | Value of RTRANSID |
| (0) | CHARACTER | 4 | IC_START_RTRANSID | Value of RTRANSID on a START cmd |
| (0) | CHARACTER | 4 | IC_RETRIEVE_RTRANSID | Value of RTRANSID on a RETRIEVE cmd |

IC_DATA9 - Addressed by IC_ADDR9

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|------------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA9 | |
| (0) | CHARACTER | 4 | IC_RTERMID | Value of RTERMID |
| (0) | CHARACTER | 4 | IC_START_RTERMID | Value of RTERMID on a START cmd |
| (0) | CHARACTER | 4 | IC_RETRIEVE_RTERMID | Value of RTERMID on a RETRIEVE cmd |

IC_DATA10 - Addressed by IC_ADDRA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|----------------------------------|
| (0) | STRUCTURE | 8 | IC_DATA10 | |
| (0) | CHARACTER | 8 | IC_QUEUE | Value of QUEUE |
| (0) | CHARACTER | 8 | IC_START_QUEUE | Value of QUEUE on a START cmd |
| (0) | CHARACTER | 8 | IC_RETRIEVE_QUEUE | Value of QUEUE on a RETRIEVE cmd |

IC_DATA11 - Addressed by IC_ADDRB

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA11 | |
| (0) | CHARACTER | 4 | IC_HOURS | Value of HOURS |
| (0) | CHARACTER | 4 | IC_DELAY_HOURS | Value of HOURS on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_HOURS | Value of HOURS on a POST cmd |
| (0) | CHARACTER | 4 | IC_START_HOURS | Value of HOURS on a START cmd |

IC_DATA12 - Addressed by IC_ADDRD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA12 | |
| (0) | CHARACTER | 4 | IC_MINUTES | Value of MINUTES |
| (0) | CHARACTER | 4 | IC_DELAY_MINUTES | Value of MINUTES on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_MINUTES | Value of MINUTES on a POST cmd |
| (0) | CHARACTER | 4 | IC_START_MINUTES | Value of MINUTES on a START cmd |

IC_DATA13 - Addressed by IC_ADDRD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 4 | IC_DATA13 | |
| (0) | CHARACTER | 4 | IC_SECONDS | Value of SECONDS |
| (0) | CHARACTER | 4 | IC_DELAY_SECONDS | Value of SECONDS on a DELAY cmd |
| (0) | CHARACTER | 4 | IC_POST_SECONDS | Value of SECONDS on a POST cmd |
| (0) | CHARACTER | 4 | IC_START_SECONDS | Value of SECONDS on a START cmd |

IC_DATA14 - Addressed by IC_ADDRE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------------------------|
| (0) | STRUCTURE | 8 | IC_DATA14 | |
| (0) | CHARACTER | 8 | IC_START_USERID | Value of USERID on START command |

IC_DATA15 - Addressed by IC_ADDRF

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-----------------|
| (0) | STRUCTURE | 8 | IC_DATA15 | |
| (0) | CHARACTER | 8 | IC_START_SYSNET | Value of SYSNET |

IC_DATA16 - Addressed by IC_ADDR10

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--------------|
| (0) | STRUCTURE | 8 | IC_DATA16 | |
| (0) | CHARACTER | 8 | IC_START_BREXIT | Value BREXIT |

IC_DATA29 - Addressed by IC_ADDR1D

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | * | IC_DATA29 | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|----------------|
| (0) | CHARACTER | * | IC_START_BRDATA | Address BRDATA |

IC_DATA30 - Addressed by IC_ADDR1E

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--------------------|
| (0) | STRUCTURE | 4 | IC_DATA30 | |
| (0) | FULLWORD | 4 | IC_START_BRDATALENGTH | Value BRDATALENGTH |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------------------------|---|
| 1 | HEX | 10 | IC_INTERVAL_GROUP | |
| Equates for IC_FUNCT values. | | | | |
| 1 | HEX | 02 | IC_ASKTIME | Asktime |
| 1 | HEX | 04 | IC_DELAY | Delay |
| 1 | HEX | 06 | IC_POST | Post |
| 1 | HEX | 08 | IC_START | Start |
| 1 | HEX | 0A | IC_RETRIEVE | Retrieve |
| 1 | HEX | 0C | IC_CANCEL | Cancel |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Interval Control. | | | | |
| 1 | HEX | 00 | IC_OK_EIBRCODE | OK |
| 1 | HEX | 01 | IC_ENDDATA_EIBRCODE | ENDDATA |
| 1 | HEX | 04 | IC_IOERR_EIBRCODE | IOERR |
| 1 | HEX | 11 | IC_TRANSIDERR_EIBRCODE | TRANSIDERR |
| 1 | HEX | 1B | IC_PGMIDERR_EIBRCODE | PGMIDERR |
| 1 | HEX | 20 | IC_EXPIRED_EIBRCODE | EXPIRED |
| 1 | HEX | 81 | IC_NOTFND_EIBRCODE | NOTFND |
| 1 | HEX | D0 | IC_SYSIDERR_EIBRCODE | SYSIDERR |
| 1 | HEX | D1 | IC_ISCINVREQ_EIBRCODE | ISCINVREQ |
| 1 | HEX | D6 | IC_NOTAUTH_EIBRCODE | NOTAUTH |
| 1 | HEX | E1 | IC_LENGERR_EIBRCODE | LENGERR |
| 1 | HEX | E9 | IC_ENVDEFERR_EIBRCODE | ENVDEFERR |
| 1 | HEX | D8 | IC_USERIDERR_EIBRCODE | USERIDERR |
| 1 | HEX | FF | IC_INVREQ_EIBRCODE | INVREQ |
| Equates for EIBRESP values used by Interval Control. | | | | |
| 1 | DECIMAL | 0 | IC_OK_EIBRESP | OK |
| 1 | DECIMAL | 13 | IC_NOTFND_EIBRESP | NOTFND |
| 1 | DECIMAL | 16 | IC_INVREQ_EIBRESP | INVREQ |
| 1 | DECIMAL | 17 | IC_IOERR_EIBRESP | IOERR |
| 1 | DECIMAL | 22 | IC_LENGERR_EIBRESP | |
| 1 | DECIMAL | 27 | IC_PGMIDERR_EIBRESP | PGMIDERR |
| 1 | DECIMAL | 28 | IC_TRANSIDERR_EIBRESP | TRANSIDERR |
| 1 | DECIMAL | 29 | IC_ENDDATA_EIBRESP | ENDDATA |
| 1 | DECIMAL | 31 | IC_EXPIRED_EIBRESP | EXPIRED |
| 1 | DECIMAL | 53 | IC_SYSIDERR_EIBRESP | SYSIDERR |
| 1 | DECIMAL | 54 | IC_ISCINVREQ_EIBRESP | ISCINVREQ |
| 1 | DECIMAL | 56 | IC_ENVDEFERR_EIBRESP | ENVDEFERR |
| 1 | DECIMAL | 69 | IC_USERIDERR_EIBRESP | USERIDERR |
| 1 | DECIMAL | 70 | IC_NOTAUTH_EIBRESP | NOTAUTH |
| Equates for EIBRESP2 values used by Interval Control. | | | | |
| 1 | DECIMAL | 0 | IC_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 1 | IC_ROUTER_REJECTED_EIBRESP2 | Router rejected start request |
| 1 | DECIMAL | 4 | IC_INVHRS_EIBRESP2 | Hours out of range |
| 1 | DECIMAL | 5 | IC_INVMINS_EIBRESP2 | Minutes out of range |
| 1 | DECIMAL | 6 | IC_INVSECS_EIBRESP2 | Seconds out of range |
| 1 | DECIMAL | 7 | IC_NOTAUTH_EIBRESP2 | Request not authorised |
| 1 | DECIMAL | 8 | IC_USERID_NOT_DEFINED_EIBRESP2 | Userid not known |
| 1 | DECIMAL | 9 | IC_SURROGATE_FAILURE_EIBRESP2 | Surrogate check failed |
| 1 | DECIMAL | 10 | IC_USERID_NOT_DETERMINED_EIBRESP2 | CICS is unable to determine whether the userid exists |
| 1 | DECIMAL | 18 | IC_SECURITY_INACTIVE_EIBRESP2 | SEC=NO specified on SIT |
| 1 | DECIMAL | 11 | IC_REMOTE_ATTACH_EIBRESP2 | tried to ship ATTACH |

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------------------------|--|
| 1 | DECIMAL | 12 | IC_ATTACH_ FAILED_EIBRESP2 | ATTACH failed |
| 1 | DECIMAL | 13 | IC_NO_BREXIT_ EIBRESP2 | No brexit specified |
| 1 | DECIMAL | 14 | IC_NOT_AUTH_ BREXIT_EIBRESP2 | Not auth for brexit |
| 1 | DECIMAL | 15 | IC_TRANSID_ NOT_FOUND_EIBRESP2 | Transid not found |
| 1 | DECIMAL | 16 | IC_TRANSID_ DISABLED_EIBRESP2 | Transid disabled |
| 1 | DECIMAL | 17 | IC_TRANSID_ SHUTDOWN_EIBRESP2 | Not enabled for shutdown |
| 1 | DECIMAL | 18 | IC_TRANSID_ SYSTEM_EIBRESP2 | System transid *-*-*-*-*-*-*-*-*-*-*-* End of General Use *-* *-* Programming Interface *-* *-*-*-*-*-*-*-*-*-*-* |

IMSDS Function request shipping message

CONTROL BLOCK NAME = DFHIMSDS
 DESCRIPTIVE NAME = CICS Function Request Shipping Message
 Insert Area.

FUNCTION =
 Description of message insert information chained off
 ISC TCTTE during session failure while in doubt.

LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|--------------------------------------|
| (0) | | | DFHIMSDS | |
| (0) | FULLWORD | 4 | | SAA (CLASS=CONTROL) |
| (4) | ADDRESS | 4 | (10) | Parm address list for MGP |
| (2C) | BITSTRING | 6 | ISMDESC | Message descriptor for MGP |
| (32) | ADDRESS | 2 | | Reserved |
| (2E) | HALFWORD | 2 | ISMMSGNO | Message number |
| (34) | CHARACTER | 6 | ISMISTM | LL & ISC terminal |
| (3A) | CHARACTER | 6 | ISMRSYS | LL & remote system id |
| (40) | CHARACTER | 6 | ISMTRAN | LL & transaction id |
| (46) | CHARACTER | 6 | ISMOPTM | LL & operator's terminal |
| (4C) | CHARACTER | 5 | ISMOPID | LL & operator id |
| (51) | CHARACTER | 7 | ISMTKNO | LL & task number (packed) |
| (58) | CHARACTER | 11 | ISMTIME | LL & time hh:mm:sss |
| (63) | CHARACTER | 4 | ISMMODID | LL & module id |
| (67) | CHARACTER | 41 | ISMUOWID (0) | Full formatted UOW id def |
| (67) | HALFWORD | 2 | ISMUWLEN | UOW length excluding this field |
| (69) | CHARACTER | 17 | ISMUWLUN | LU name (NB variable length) |
| NB The offsets of the following fields will be different if the length of the variable length field ISMUWLUN is less than 17. | | | | |
| (7A) | CHARACTER | 3 | ISMUWC1 | A constant |
| (7D) | CHARACTER | | ISMUWTKN | Token |
| (89) | CHARACTER | 2 | ISMUWC2 | A constant |
| (8B) | CHARACTER | 5 | ISMUWSEQ | Sequence number |
| | 1..1 | | ISMEND | *** |
| | .1.1 11.. | | ISMKPL | "ISMEND-***" Length to be keypointed |
| (34) | CHARACTER | 1 | ISMKP | Bytes to be keypointed |
| | 1..1 | | ISMLEN | "ISMEND-DFHIMSDS" Dsect length |

IRC Interregion control blocks

CONTROL BLOCK NAME = DFHIRSPS
 DESCRIPTIVE NAME = CICS Interregion Control Blocks
 FUNCTION =
 Descriptions of all inter-region communication control blocks which are visible to the subsystem level of inter-region communication.
 The control blocks defined are:
 SLCB Subsystem Logon Control Block
 SCCB Subsystem Connection Control Block
 SCACB(E) Subsystem Connection Address Control Block

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = N/A
 MODULE TYPE = Control block definition
 Subsystem Logon Control Block
 This DSECT describes the format of the SLCB which is the control block that contains the information relevant to the logon session which is of interest to the subsystem level of inter-region communication.
 First define the format of the fields in the SLCB.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | SLCB | |
| (0) | FULLWORD | 4 | SLCBLECB | Logon (Master) ECB |
| (4) | FULLWORD | 4 | SLCBSCAC | SCACB Address |
| (8) | CHARACTER | 4 | SLCBSTTS | Status bytes |
| (8) | CHARACTER | 1 | SLCBSTS1 | Status byte 1 |
| FLAGS IN STATUS BYTE 1: LCBSTTS1 OR SLCBSTS1 | | | | |
| | 1... .. | | LCBFAM31 | '80'X User of LCB is AMODE(31) |
| | .1. | | LCBFQUIP | '40'X Normal quiesce in progress |
| | ..1. | | LCBFQIIM | '20'X Immediate quiesce |
| | ...1 | | LCBFSPST | '10'X System Post |
| | 1... | | LCBFBTCH | '08'X Batching of opsys |
| |1.. | | LCBFBTCP | '04'X Batch=Postexit |
| |1. | | LCBFBEXL | '02'X Exit Loaded |
| |1 | | LCBFUNIQ | '01'X LCB corresponds to a UNIQUE user |
| (9) | CHARACTER | 1 | SLCBSTS2 | Status byte 2 |
| FLAGS IN STATUS BYTE 2: LCBSTTS2 OR SLCBSTS2 | | | | |
| | 1... .. | | LCBFNWCN | '80'X New connector: scan ECBs |
| | .1. | | LCBFQUCM | '40'X Quiesce complete |
| | ..1. | | LCBFSWFS | '20'X Switch First received |
| | ...1 | | LCBFDSCR | '10'X Disconnect received |
| | 1... | | LCBFJOIN | '08'X IXCJOIN may have been done@LAA |
| |1.. | | LCBFLVIP | '04'X IXCLEAVE in flight |
| |11 | | * | Reserved |
| (A) | BITSTRING | 1 | SLCBSTS3 | Status byte 3 |
| (B) | CHARACTER | 1 | SLCBSTS4 | Status byte 4 |
| FLAGS IN STATUS BYTE 4: LCBSTTS4 OR SLCBSTS2 | | | | |
| | 1... .. | | LCBSRBSE | '80'X Serialization with work queue processor |
| | .111 1111 | | * | Reserved |
| (C) | ADDRESS | 4 | SLCBLCB | Address of LCB |

Subsystem Connection Control Block
 This DSECT defines the SCCB, the control block which contains the information about a particular connection which can be accessed by the subsystem level of inter-region communication function.
 First define the format of the fields in the SCCB.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 96 | SCCB | |
| (0) | FULLWORD | 4 | SCCBDECB | Dependent ECB |
| (4) | FULLWORD | 4 | SCCBTHNM | Thread number |
| (8) | FULLWORD | 4 | SCCBTHID | Thread identification |
| (C) | CHARACTER | 4 | SCCBSTAT | Status bytes |
| (C) | CHARACTER | 1 | SCCBSTS1 | Status byte 1 |
| | 1... .. | | CCBFNWCN | '80'X New connector |
| | .1. | | * | '40'X Was CCBFCNTR - now reserved |
| | ..1. | | CCBFSWDT | '20'X Data passed with switch |
| | ...1 | | CCBFSWFS | '10'X Switch First received |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| | 1... | | CCBFDTNF | '08'X Data doesn't fit |
| |1.. | | CCBFDWP | '04'X Disconnect when possible |
| |1. | | CCBFSWIT | '02'X Invalid target for switch |
| |1. | | CCBFUNEX | '02'X Unexpected failure in SRB/subtask |
| |1 | | CCBIRCWT | '01'X This side is waiting for a session recovery response from the other side. |
| (D) | CHARACTER | 1 | SCCBSTS2 | Status byte 2 |

FLAGS IN STATUS BYTE 2:

| | | | | |
|------|----------------|----|----------|--|
| | 1... .. | | CCBFTERM | '80'X Other side terminated normally |
| | .1.. | | CCBFABTM | '40'X Other side terminated abnormally |
| | ..1. | | CCBFABTQ | '20'X Abnormal termination due to Quiesce |
| |1 | | CCBFCNCT | '10'X The connection is currently connected |
| | 1... | | CCBFFTRM | '08'X Other side's normal disc. requests FORGET |
| (E) | BITSTRING | 1 | SCCBSTS3 | Status byte 3 |
| | 1... .. | | CCBFPRIM | '80'X This is a primary SCCB |
| (F) | BITSTRING | 1 | SCCBSTS4 | Status byte 4 |
| (10) | FULLWORD | 4 | SCCBDLTH | Total length of data passed |
| (14) | FULLWORD | 4 | SCCBSLTH | Target area length |
| (18) | ADDRESS | 4 | SCCBAREA | Target area address |
| (1C) | CHARACTER | 8 | SCCBCNAM | Connector LOGON name |
| (24) | FULLWORD | 4 | SCCBUSER | User field |
| (28) | CHARACTER | 8 | SCCBSEC | Security user field |
| (30) | ADDRESS | 4 | SCCBELA | SCCB associated work element |
| (38) | CHARACTER | 8 | SCCBCTIM | STCK time at which connection connected |
| (40) | CHARACTER | 8 | SCCBSTOD | STCK time by when the secondary TCB had chosen a specific instance of the target primary |
| (48) | CHARACTER | 24 | SCCBEL | SCCB internal work element |

Subsystem Connection Address Control Block
These DSECTs define the format of the SCACB and its entries. The SCACB is used by the subsystem level of interregion communication function to obtain the addresses of the SCCBs representing its connections.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 8 | SCACB | |
| (0) | FULLWORD | 4 | SCACBNUM | Number of entries in SCACB |
| (4) | FULLWORD | 4 | SCACBENT | Start of entries |
| (4) | FULLWORD | 4 | SCACBEND | End marker = 'FFFFFFF' |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 4 | SCACBE | |
| (0) | FULLWORD | 4 | SCACBEAD | Address of SCCB |

Ligon Connections List
This list is passed to logon by the requester, and it describes the systems to which this logger-on can be connected.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| (0) | STRUCTURE | 22 | LCL | |
| (0) | CHARACTER | 8 | LCLNAME | Name of connected system |
| (8) | CHARACTER | 8 | LCLUSRID | Was security userid (ignored) |
| (10) | UNSIGNED | 2 | LCLSECNO | Number of secondaries for connections to given system |
| (12) | UNSIGNED | 2 | LCLPRMNO | Number of primaries for connections to given system |
| (14) | BITSTRING | 1 | LCLFLG | Flag byte |
| | 1... .. | | LCLFLGLS | '80'X Last element in list |
| | .1.. | | LCLFLGCN | '40'X Connections to this system are initially 'IN SERVICE' |
| | ..1. | | LCLFLGSK | '20'X Partner must be a system key user |
| | ...1 | | LCLFLGXM | '10'X Cross-Memory acceptable |
| (15) | BITSTRING | 1 | * | Reserved |

The SVC argument list comprises a list of addresses, each of which is the address of a function argument list.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 4 | IRSVCADS | |
| (0) | FULLWORD | 4 | IRVCAARG | Address of function argument list |

The function argument list, addressed from the SVC argument list, contains different arguments according to the function being requested. The first six arguments identify the function required, the function modifier (for SWITCH, DISCONNECT or QUIESCE), the user number and identification, and the thread number and identification (where required). The remaining three arguments depend on the function requested and identify a system name (for LOGON, INSERV or QUIESCE), a subsystem control block address (for LOGON or CONNECT) and a parameter list (for LOGON or SWITCH).

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 24 | IRSVCFDS | |
| (0) | UNSIGNED | 1 | IRVCLEN | Length of parameter list |
| (1) | UNSIGNED | 1 | IRVCTYP | Function type |
| (2) | HALFWORD | 2 | IRVCSTYP | Function modifier |
| (4) | FULLWORD | 4 | IRVCUSID | Address of userid argument (except LOGON) OR userid return slot (LOGON only) |
| (8) | FULLWORD | 4 | IRVCTHID | Address of thread ID argument (SWITCH, PULL or DISCONNECT only) or thread number return slot (CONNECT only) |
| (C) | CHARACTER | 12 | IRVICALST | Start of function specific argument list |
| (18) | CHARACTER | | IRVCEND | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------------|-----|------------|--------------------------------------|
| (8) | STRUCTURE | 4 | IRVCLGFL | Logon flags |
| (8) | UNSIGNED | 1 | IRVCLGF1 | First flag byte |
| | 1... .. | | IRVCLGSP | SYS POST req'd on links |
| | .1.. .. | | IRVCLGBT | Batching of operating system POSTs |
| | ..1. | | IRVCLGBX | BATCH=POSTEXIT |
| | ...1 | | IRVCLEXM | Exit module name given |
| | 1... .. | | IRVCLFLT | Latent parameter supplied on logon |
| |1.. .. | | IRVCLDOK | Allow duplicate names for this logon |
| |11 .. | | * | Reserved |
| (9) | UNSIGNED | 1 | IRVCLGF2 | Second flag byte |
| (A) | UNSIGNED | 1 | IRVCLGBV | Batching value (IRVCLGBT set) |
| (B) | UNSIGNED | 1 | IRVCLGGM | GETMAIN above if SVCLOC=ANY |
| | 1... .. | | IRVCLSVC | 1 SVCLOC=ANY, 0 SVCLOC=BELOW |
| | ..11 1111 | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (C) | STRUCTURE | 20 | * | Argument list for LOGON |
| (C) | FULLWORD | 4 | IRVCLGIM | Address of MYNAME argument |
| (10) | FULLWORD | 4 | IRVCLGSL | Address of SLCB addr return slot |
| (14) | FULLWORD | 4 | IRVCLGMU | Address of max users argument |
| (18) | FULLWORD | 4 | IRVCLGEX | Addr of exit module name |
| (1C) | FULLWORD | 4 | IRVCLGLT | Addr of latent parameter |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for LOGOFF |
| (C) | FULLWORD | 4 | IRVCLODS | Address of dynamic storage operand |
| (10) | CHARACTER | 8 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for CONNECT |
| (C) | FULLWORD | 4 | IRVCCNTO | Address of TO argument |
| (10) | FULLWORD | 4 | IRVCCNSC | Address of SCCB addr return slot |
| (14) | CHARACTER | 4 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (C) | STRUCTURE | 12 | * | Argument list for SWITCH |
| (C) | FULLWORD | 4 | * | Reserved |
| (10) | FULLWORD | 4 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (14) | FULLWORD | 4 | IRVCSWPM | Address of parameter to pass |
| (C) | STRUCTURE | 12 | * | Argument list for QUIESCE |
| (C) | FULLWORD | 4 | IRVCQUTO | Address of TO argument |
| (10) | CHARACTER | 8 | * | |
| (C) | STRUCTURE | 12 | * | Argument list for INSERV |
| (C) | FULLWORD | 4 | IRVCINTO | Address of TO argument |
| (10) | CHARACTER | 8 | * | |
| (C) | STRUCTURE | 12 | * | Argument list for RECOVER |
| (C) | FULLWORD | 4 | * | Reserved |
| (10) | FULLWORD | 4 | IRVRCRS | Register 13 save area |
| (14) | FULLWORD | 4 | IRVRCRSA | Address of save area argument |
| (C) | STRUCTURE | 12 | * | Argument list for EOT/M CLEAR |
| (C) | HALFWORD | 2 | IRVCEOAS | ASID of failing memory or ASID of memory containing failing task |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | FULLWORD | 4 | IRVCEOTA | TCB address of failing task |
| (14) | FULLWORD | 4 | IRVCEOSC | Address of SSCT |
| (C) | STRUCTURE | 12 | * | Argument list for ADD |
| (C) | FULLWORD | 4 | IRVCANM | Pointer to netname (=IRVCLGIM) |
| (10) | FULLWORD | 4 | IRVCATOK | ADD token pointer |
| (14) | FULLWORD | 4 | IRVCALCL | A(LCL) - same offset as LOGON |
| (C) | STRUCTURE | 4 | * | Argument list for CHCKLEVL |
| (C) | FULLWORD | 4 | IRVCALVL | Caller's level identifier |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--------------------------------|
| 4 | DECIMAL | 16 | SLCBLENG | Length of SLCB |
| 4 | DECIMAL | 96 | SCCBLENG | Length of SCCB |
| 1 | HEX | 80 | IRXMTHRD | If not XCF, X-Memory thread |
| 1 | HEX | 40 | IRNXTHRD | Non-XCF thread ID |
| 4 | DECIMAL | 8 | SCACBLEN | Basic SCACB length |
| 4 | DECIMAL | 4 | SCACBELN | Length of SCACB entry |
| 4 | DECIMAL | 22 | LCLLENG | Connection list element length |
| 4 | DECIMAL | 24 | IRVCMAXM | Maximum parameter length |
| 4 | DECIMAL | 1 | IRVCLVL1 | Function lvl 1 - basic XCF |
| 4 | DECIMAL | 2 | IRVCLVL2 | Function lvl 2 - FORGET |

The following equates define the function request codes for the Interregion Communication Program. There are two levels of function request defined here: The SVC function code addressed from the SVC argument list and the function type qualification code addressed from the function argument list for particular functions.

| SVC FUNCTION CODES | | | | |
|--------------------|---------|----|----------|------------|
| 1 | DECIMAL | 0 | IRVCEQLG | LOGON |
| 1 | DECIMAL | 4 | IRVCEQLF | LOGOFF |
| 1 | DECIMAL | 8 | IRVCEQCN | CONNECT |
| 1 | DECIMAL | 12 | IRVCEQDC | DISCONNECT |
| 1 | DECIMAL | 16 | IRVCEQSW | SWITCH |
| 1 | DECIMAL | 20 | IRVCEQQU | QUIESCE |
| 1 | DECIMAL | 24 | IRVCEQPL | PULL |
| 1 | DECIMAL | 28 | IRVCEQIN | INSERV |

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|--|
| 1 | DECIMAL | 32 | IRVCEQCL | CLEAR |
| 1 | DECIMAL | 36 | IRVCEQRC | RECOVER |
| 1 | DECIMAL | 40 | IRVCEQEO | EOT/M CLEAR |
| 1 | DECIMAL | 44 | IRVCEQMX | Immediate Quiesce |
| 1 | DECIMAL | 48 | IRVCEQAD | Connection ADD |
| 1 | DECIMAL | 52 | IRVCEQCK | Check DFHIRP level |
| FUNCTION QUALIFICATION CODES | | | | |
| 1 | DECIMAL | 0 | IRVCEQDN | Normal DISCONNECT |
| 1 | DECIMAL | 4 | IRVCEQDA | Abnormal DISCONNECT |
| 1 | DECIMAL | 8 | IRVCEQDF | FORGET disc (normal quies) |
| 1 | DECIMAL | 0 | IRVCEQQN | Normal QUIESCE |
| 1 | DECIMAL | 4 | IRVCEQQI | Immediate QUIESCE |
| 1 | DECIMAL | 0 | IRVCEQSS | SWITCH SUBSEQUENT |
| 1 | DECIMAL | 4 | IRVCEQSF | SWITCH FIRST |
| 1 | DECIMAL | 0 | IRVCEQRP | Recover from program check |
| 1 | DECIMAL | 4 | IRVCEQRA | Recover from ABEND |
| 1 | DECIMAL | 0 | IRVCEQET | End of Task |
| 1 | DECIMAL | 4 | IRVCEQEC | End of Cross Memory Resource Owner Task |
| 1 | DECIMAL | 8 | IRVCEQEM | End of Memory |
| 1 | DECIMAL | 0 | IRVCEQPR | ADD_PREPARE |
| 1 | DECIMAL | 4 | IRVCEQCM | ADD_COMMIT |
| 1 | DECIMAL | 8 | IRVCEQRL | ADD_ROLLBACK |
| <p>Error Return Codes The following equates define the return codes passed back by the interregion communication SVC when it detects an error. These error codes are loaded into R15.</p> | | | | |
| INVALID REQUEST ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 4 | IRERRINF | Invalid function requested |
| 2 | DECIMAL | 8 | IRERRAUT | User not authorized to use SVC (MVS only) |
| VALIDATE SUDB ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 12 | IRERRINE | Environment incorrect |
| VALIDATE USER ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 16 | IRERRUNM | Invalid user number |
| 2 | DECIMAL | 20 | IRERRUID | Invalid user identification |
| 2 | DECIMAL | 24 | IRERRKEY | PSW key not same as at LOGON |
| VALIDATE THREAD ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 28 | IRERRTHN | Invalid thread number |
| 2 | DECIMAL | 32 | IRERRTHD | Invalid thread ID |
| SET FOOTPRINT ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 36 | IRERRCFT | Set footprint failed |
| CHCKLEVL-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 40 | IRERRLVE | * DFHIRP services are down-level |
| MORE VALIDATE USER ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 44 | IRERRLGN | Valid userno & ID but LCB not fully logged on |
| LOGON-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 52 | IRERRNOS | No SCTE in the SVA |
| 2 | DECIMAL | 56 | IRERRNFL | No free LACBE for LOGON |
| 2 | DECIMAL | 60 | IRERRDPL | Duplicate LOGON |
| 2 | DECIMAL | 64 | IRERRMXL | Maximum LOGONS already reached |
| 2 | DECIMAL | 68 | IRERRGMD | GETMAIN failed XCF busy retry TQE storage |
| 2 | DECIMAL | 72 | IRERRGM1 | GETMAIN failed LACB storage |
| 2 | DECIMAL | 76 | IRERRGM4 | GETMAIN failed SUDB storage |
| 2 | DECIMAL | 80 | IRERRGM2 | GETMAIN failed LCB/CCB storage |
| 2 | DECIMAL | 84 | IRERRGM3 | GETMAIN failed - private area storage |
| 1 | DECIMAL | 1 | IRERQSCW | IRERRGM3 qualifier security work area |
| 1 | DECIMAL | 2 | IRERQLCC | IRERRGM3 qualifier LCL copy area |
| 1 | DECIMAL | 3 | IRERQVFW | IRERRGM3 qualifier SSI VERIFY work area |
| 1 | DECIMAL | 4 | IRERQSDW | SUDB work area security work area |
| 1 | DECIMAL | 5 | IRERQJSB | IRERRGM3 qualifier JSB storage |
| 1 | DECIMAL | 6 | IRERQSCA | IRERRGM3/IRERRSIZ qualifier SCACB storage |
| 1 | DECIMAL | 7 | IRERQLCV | IRERRGM3/IRERRSIZ qualifier LCBE vector storage |
| 1 | DECIMAL | 8 | IRERQLCD | IRERRGM2/IRERRSIZ qualifier LCB, LCBE & CCB storage |
| 1 | DECIMAL | 9 | IRERQSCC | IRERRGM3/IRERRSIZ qualifier SCCB storage |
| 1 | DECIMAL | 10 | IRERQLCX | IRERRGM3/IRERRSIZ qualifier LCBEX & CCBX storage |
| 1 | DECIMAL | 11 | IRERQPHB | IRERRGM3/IRERRSIZ qualifier PHB storage |
| 1 | DECIMAL | 12 | IRERQSLC | IRERRGM3/IRERRSIZ qualifier SLCB storage |
| 1 | DECIMAL | 13 | IRERQSRW | IRERRGM3/IRERRSIZ qualifier SRB work area |
| 1 | DECIMAL | 14 | IRERQXTT | IRERRGM3/IRERRSIZ qualifier XCF Trace Table |
| 1 | DECIMAL | 15 | IRERQSQW | IRERRGM3/IRERRSIZ qualifier QUERY SYSPLEX work area |
| 1 | DECIMAL | 16 | IRERQGXW | IRERRGM3/IRERRSIZ qualifier XCF Group Exit work area |
| 1 | DECIMAL | 17 | IRERQRXW | IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB work area |
| 1 | DECIMAL | 18 | IRERQRTT | IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB Trace Table |
| 2 | DECIMAL | 256 | IRERRWEN | Bad name for EXITS= |
| 2 | DECIMAL | 260 | IRERRWEL | LOAD failed for IR work exit |
| 2 | DECIMAL | 264 | IRERRWEF | IR work exit is bad format |
| CONNECT-SPECIFIC ERROR RETURN CODES | | | | |

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|---|
| 2 | DECIMAL | 12 | IRERRSP | Secondary to Primary converter |
| 2 | DECIMAL | 88 | IRERRNSK | Potential partner is not a system key user but LCBE insists on system key partners |
| 2 | DECIMAL | 92 | IRERRNLG | System not logged on |
| 2 | DECIMAL | 96 | IRERRNCT | Primary & secondary DFHIRP levels have incompatible XCF User State Data formats |
| 2 | DECIMAL | 100 | IRERRGM5 | GETMAIN failed CSB/CND storage |
| 2 | DECIMAL | 104 | IRERRNSS | Secondary system not in primary LCB |
| 2 | DECIMAL | 108 | IRERRCCS | No secondary CCB found for primary system |
| 2 | DECIMAL | 112 | IRERRIQS | Secondary is in QUIESCE |
| 2 | DECIMAL | 116 | IRERRNSP | |
| Primary system not in secondary LCB | | | | |
| 2 | DECIMAL | 120 | IRERRCCP | |
| No primary CCB found for secondary | | | | |
| 2 | DECIMAL | 124 | IRERRIQP | |
| Primary is in QUIESCE | | | | |
| 2 | DECIMAL | 128 | IRERRCCR | No primary CCB/retry req |
| 2 | DECIMAL | 176 | IRERRSCF | Security check failed |
| 1 | DECIMAL | 1 | IRERQAUT | IRERRSCF qualifier AUTH denied access |
| 1 | DECIMAL | 2 | IRERQFAU | IRERRSCF qualifier FASTAUTH denied access |
| DISCONNECT-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 132 | IRERRDSC | Link is already disconnected |
| SWITCH-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 136 | IRERRSWI | Other side cannot receive data |
| 2 | DECIMAL | 140 | IRERRNSW | This side cannot send data |
| PULL-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 144 | IRERRPL1 | Other side cannot be pulled from |
| 2 | DECIMAL | 148 | IRERRPL2 | This side cannot pull data |
| 2 | DECIMAL | 152 | IRERRNPP | There is no pull pending |
| 2 | DECIMAL | 156 | IRERRNDP | No data to be pulled (Internal error) |
| INSERVICE-SPECIFIC ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 160 | IRERRLIQ | LCB is in QUIESCE |
| 2 | DECIMAL | 164 | IRERRUKS | Target system not found in LCB |
| MISCELLANEOUS ERROR RETURN CODES | | | | |
| 2 | DECIMAL | 168 | IRERRCSB | CSB cannot be found |
| 2 | DECIMAL | 172 | IRERRLNC | Link is not connected |
| 2 | DECIMAL | 180 | IRERRSCH | Attempt to schedule an SRB/subtask failed |
| 2 | DECIMAL | 184 | IRERRGM7 | GETMAIN failed for SRB storage (MVS) |
| 2 | DECIMAL | 208 | IRERRGM8 | GETMAIN failed for Transfer Buffer |
| 2 | DECIMAL | 212 | IRERRGM9 | GETMAIN failed for EOM wk area |
| 2 | DECIMAL | 236 | IRERRGMA | GETMAIN failed for XCF part table or XCF retry storage |
| 2 | DECIMAL | 228 | IRERRGMX | GETMAIN failed for use count array |
| 2 | DECIMAL | 232 | IRERRAX | Non-zero AX value currently set |
| 2 | DECIMAL | 240 | IRERRCAT | Connect SRB ATSET failed |
| 2 | DECIMAL | 244 | IRERRXME | Cross memory environment error |
| 2 | DECIMAL | 248 | IRERRIDL | Total data length invalid For SWITCH or PULL |
| 2 | DECIMAL | 252 | IRERRMPD | M/C check paging I/O or DAT error |
| 2 | DECIMAL | 188 | IRERRPST | 'Special' ABEND (Bad ECB etc.) |
| 2 | DECIMAL | 216 | IRERRENV | Subsystem notification error (MVS only) |
| 2 | DECIMAL | 268 | IRERRLCL | Error in LOGON/ADD connections list |
| 1 | DECIMAL | 1 | IRERQDNM | Duplicate connection name in LCL or LCBEs |
| 1 | DECIMAL | 2 | IRERQEXC | Restricted options requested by an EXCI user |
| 1 | DECIMAL | 3 | IRERQ#SN | Number of sessions is invalid |
| 1 | DECIMAL | 4 | IRERQPNU | Primary sessions requested by a non-unique user or LCL end flag cleared asynchronously |
| INVALID ADDRESS RETURN CODES | | | | |
| 2 | DECIMAL | 192 | IRERRIA0 | Invalid argument or Parameter addr |
| 2 | DECIMAL | 196 | IRERRIA1 | Invalid address in parameter list |
| 2 | DECIMAL | 200 | IRERRIA2 | Invalid address in data list |
| 2 | DECIMAL | 204 | IRERRABN | An MVS ABEND occurred |
| 2 | DECIMAL | 220 | IRERRIA3 | Invalid target for data movement |
| 2 | DECIMAL | 224 | IRERRILE | Internal logic error |
| 2 | DECIMAL | 276 | IRERRXCQ | IXCQUERY failure, reason in R0 |
| 2 | DECIMAL | 280 | IRERRTKN | Token not found - dynamic ADD |
| 2 | DECIMAL | 284 | IRERRSCV | SCTE already built by an incompatible version of DFHIRP |
| 2 | DECIMAL | 288 | IRERRRSM | MVS RESMGR failed - 1st 2 bytes of RF is RESMGR return code |
| 2 | DECIMAL | 292 | IRERRSIZ | Max. size exceeded for SCACB, LCBE vector, LCBD block, SCCB block or LCBEX block |
| 2 | DECIMAL | 296 | IRERRTSW | Non-zero POST code from TRANSWAP |
| 2 | DECIMAL | 300 | IRERRSN# | No unused session numbers left for an XCF CONNECT request |
| 2 | DECIMAL | 304 | IRERRMTM | LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN |

IRDRS Interregion session recovery

CONTROL BLOCK NAME = DFHIRRDS
 DESCRIPTIVE NAME = CICS Interregion Session Recovery
 Data Stream.

FUNCTION =
 This DSECT describes the datastream sent by both primary and secondary at the start of an IRC session. The datastream is used to perform session recovery immediately after a new IRC connection has been established between two systems.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--|
| (0) | | | DFHIRRDS | |
| (0) | BITSTRING | 1 | IRRSTRT (0) | START |
| (0) | BITSTRING | 4 | IRFLGS (0) | FLAGS |
| (0) | BITSTRING | 1 | IRFLG1 | FLAG BYTE 1 |
| | 1... .. | | IRFLGFX | "X'80" .. FAST PATH XFORMER SUPPORTED |
| | .1.. | | IRFLFACC | "X'40" .. Revised State-after-Rollback rules are required |
| | ..1. | | IRFLBSND | "X'20" .. Sender is 'new batch' |
| | ...1 | | IRFLBREJ | "X'10" .. Sender is non-batch connection reject |
| | 1... | | IRFLCONT | "X'08" .. More bind data after IRLLEN (see IRCNT DSECT below) |
| |1.. | | IRFLRSYN | "X'04" .. Sender is capable of new (LU62-style) resync |
| |1. | | IRFLFCTK | "X'02" .. Sender can handle FC Tokens |
| |1 | | IRFRRS | "X'01" .. Sender supports transactional EXCI |
| (1) | BITSTRING | 1 | IRFLG2 | |
| | 1... .. | | IRFLRTST | "X'80" .. Routable START support |
| (2) | BITSTRING | 2 | | RESERVED |
| (4) | BITSTRING | 4 | IRRELNO | SENDER'S RELEASE LEVEL (SAME FORMAT AS ISC RLSE NO IN USER AREA IN BIND) |
| (8) | CHARACTER | 4 | IRSNAM | SENDER'S NAME |
| (C) | CHARACTER | 4 | IRRNAM | NAME TO WHICH SENDER WAS CONNECTED IN PREV. SESSION (BLANKS IF NONE OR UNKNWN) |
| (10) | BITSTRING | 2 | IRLONO | LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED) |
| (12) | BITSTRING | 2 | IRLINO | LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED) |
| | ...1 .1.. | | IRLEN | **IRRSTRT" LENGTH OF DATASTREAM |

The IRCNT DSECT describes a bind continuation element. The presence of such an element is signalled by the setting of the IRFLCONT flag in IRFLGS (see the DFHIRRDS DSECT above). The element appears immediately after the bind data (ie at offset IRLLEN from DFHIRRDS).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|---|
| (0) | | | IRCONT | |
| (0) | HALFWORD | 2 | IRCONT_LTH | lth of data item (including lth field itself) |
| (2) | HALFWORD | 2 | IRCONT_TYPE | type of data item |
| |1 | | IRCONT_JOBID | "X'01" type value for jobid data item |
| |1. | | IRCONT_XLN | "X'02" type value for bind XLN data |
| (4) | BITSTRING | 1 | IRCONT_DATA (0) | start of data proper |
| (2) | BITSTRING | 1 | IRCONT_FLAG | flag at start of type field |
| | 1... .. | | IRCONT_MORE | "X'80" IRCONT_FLAG value indicating presence of another data item |

JCA Journal control area

CONTROL BLOCK NAME = DFHJCAPS
 DESCRIPTIVE NAME = CICS Journal Control Area
 FUNCTION =
 The JCA contains the parameter lists that communicate between a task requiring journaling services, and other fields used internally by journaling.
 LIFETIME =
 A JCA is normally created on the first occasion that a task requests a service of journaling, and persists until the task terminates. (Journaling also creates some JCAs for internal purposes.) Creation involves DFHJCP; deletion is incidental to deletion of the TCA.
 STORAGE CLASS =
 JCA (9B'X)
 LOCATION =
 Addressed by TCAJCAAD in the user TCA.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 54 | DFHJCADS | JCA |
| (0) | HALFWORD | 2 | JCALEN | Length of the JCA |
| (2) | CHARACTER | 6 | JCAEYE | JCA eyecatcher |
| (8) | BITSTRING | 1 | JCATR3 | - type of request, byte 3 |
| (9) | BITSTRING | 1 | JCATR2 | - type of request, byte 2 |
| (A) | BITSTRING | 1 | JCATR1 | - type of request, byte 1 |
| (B) | BITSTRING | 1 | JCAJCRC | - return code |
| (C) | ADDRESS | 4 | JCAADATA | - A(user data) |
| (10) | ADDRESS | 4 | JCAAPRFX | - A(user prefix) |
| (14) | FULLWORD | 4 | JCAFTOK | force token |
| (18) | FULLWORD | 4 | JCAFLEN | - fullword L(user data) |
| (18) | HALFWORD | 2 | * | - section to allow 64K |
| (1A) | HALFWORD | 2 | JCALDATA | - used with LENGTH |
| (1C) | HALFWORD | 2 | JCALPRFX | - L(user prefix) |
| (1E) | HALFWORD | 2 | JCAJNUM | journal number as halfword |
| (20) | UNSIGNED | 1 | JCAJFID | - journal identifier |
| (21) | CHARACTER | 8 | JCAJNAME | journal name identifier |
| (29) | CHARACTER | 2 | JCADOMID | calling domain identifier |

JCA user prefix: terminal control segment

| | | | | |
|------|-----------|----|----------|--------------------------------|
| (2C) | CHARACTER | 10 | JCAUPTC | origin of user prefix |
| (2C) | CHARACTER | 2 | JCAJRTID | - JC rec type (DFHFMIPS) |
| (2C) | BITSTRING | 1 | JCAMODFN | - module function |
| (2D) | BITSTRING | 1 | JCASVMID | - module id |
| (2E) | HALFWORD | 2 | JCAVSPIN | LU6.1 inbound sequence number |
| (30) | HALFWORD | 2 | JCAVSPON | LU6.1 outbound sequence number |
| (32) | CHARACTER | 4 | JCAUPTID | Terminal ID |

Constants

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---|
| 1 | HEX | 10 | JCATRANY | Concerning addressing mode -- user data may be 'anywhere' |
| JCATR2 - Request-modifying symbolic settings | | | | |
| 1 | HEX | 01 | JCATROUT | TYPE=OUTPUT (with OPEN) |
| 1 | HEX | 01 | JCATRL | LEAVE=YES (with CLOSE request) |
| 1 | HEX | 01 | JCATRCR | Conditional (WRITE) request |
| 1 | HEX | 02 | JCATRIN | TYPE=INPUT (with OPEN) |
| 1 | HEX | 02 | JCATRSIO | STARTIO=YES (with WRITE) |
| 1 | HEX | 04 | JCATRPFX | User prefix specified (WRITE) |
| JCATR1 - Request-type symbolic settings | | | | |
| 1 | HEX | 01 | JCATRWR | TYPE=WRITE |
| 1 | HEX | 02 | JCATRW | TYPE=WAIT |
| 1 | HEX | 03 | JCATRPUT | TYPE=PUT (=WRITE,WAIT) |
| JCAJCRC - return code symbolic settings | | | | |
| 1 | HEX | 00 | JCARCNR | normal response |
| 1 | HEX | 01 | JCARCIDE | journal id error |
| 1 | HEX | 02 | JCARCIRE | invalid request |
| 1 | HEX | 03 | JCARCSE | status error |
| 1 | HEX | 04 | @NM00002 | reserved |

| Len | Type | Value | Name | Description |
|----------------------|------|-------|----------|-----------------------------|
| 1 | HEX | 05 | JCARCNOE | journal not open |
| 1 | HEX | 06 | JCARCLE | length error |
| 1 | HEX | 07 | JCARCIOE | I/O error |
| 1 | HEX | 08 | JCARCEOF | end of file (for input req) |
| 1 | HEX | 09 | JCARCCR | COND=YES, buffer full |
| MISCELLANEOUS VALUES | | | | |
| 1 | HEX | 63 | JCAJNMAX | Max journalname = 99 |

KCS Transaction manager static storage

CONTROL BLOCK NAME = DFHKCSPS
 DESCRIPTIVE NAME = CICS TRANSACTION MANAGER STATIC STORAGE
 FUNCTION =
 Static storage used by task control component for
 ECBs and working storage.
 There is a single instance of this control block in a CICS
 system.
 LIFETIME =
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.
 STORAGE CLASS =
 CICS static storage.
 LOCATION =
 Addresses from static storage address list.
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = PCT
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 20 | DFHKCSPS | |
| (0) | CHARACTER | 4 | KCSOBECB | open-for-business ECB |
| (0) | BITSTRING | 1 | * | Reserved |
| | 1... .. | | * | Reserved |
| | .1.. .. | | KCSOBPST | open-for-business post bit * |
| (4) | CHARACTER | 4 | KCSCPECB | KC restart complete ECB * |
| (4) | BITSTRING | 1 | * | Reserved |
| | 1... .. | | * | Reserved |
| | .1.. .. | | KCSCPPST | restart complete post bit * |
| (8) | BITSTRING | 1 | KCSFLAGS | restart flags |
| | 1... .. | | KCSRSTIN | restart initiated |
| (9) | UNSIGNED | 1 | KCSRSTRC | restart return code |
| (A) | CHARACTER | 2 | KCSREASN | MSG DFH0302 REASON CODE * |
| (C) | ADDRESS | 4 | KCSNQPCH | DFHHC ENQ string enqueue pool |
| (10) | ADDRESS | 4 | KCSNQPAD | DFHHC ENQ address enqueue pool |
| (14) | CHARACTER | | KCSTLEN | LENGTH INDICATOR |

KERRD Kernel error data

CONTROL BLOCK NAME = DFHKERRD
 DESCRIPTIVE NAME = CICS Kernel Error Data
 FUNCTION = Kernel Error Data.
 After an MVS Abend, Program Check or Domain Requested Recovery,
 The following data is available to the task in recovery state.
 Once the recovery state is cleared or percolated, this data is
 no longer available.

The data splits into three parts:

1. Error Code and Interrupt information.

The Error Code is supplied on a CICS Request Recovery Call
 and is a CICS Abend Code (as documented in CICS Messages
 and Codes).

If the Error Code is AKEA then there has been a program
 check and the System Interrupt data will be the program
 check code (00CX).

If the Error Code is AKEB then there has been an MVS Abend
 and then System and User Interrupt data will contain the
 MVS Abend Code split up into the System and User parts.

The Kernel will calculate the offset within your program
 that the CICS error occurred. If not in your program, this
 field is set negative.

2. SYSTEM Error Data - PSW and Registers taken from the SDWA.

SDWA: "PSW and Registers at time of error."

There are two sets of PSW and Registers, which are different
 when CICS has called an SVC (say) which then issues an
 Abend. In this case the phrase 'at time of error' indicates
 that this set of PSW and Registers will be those of the
 SVC: the PSW will be the address (in the SVC routine)
 of an Abend SVC (13).

3. CICS Error Data - PSW and Registers taken from the SDWA.

SDWA: "PSW and Registers of last interrupt of the RB that
 issued this STAE/ESTAE."

This is a rather cryptic phrase. Remember, however, that
 the RB that issued the ESTAE is actually CICS and that,
 since CICS does not issue LINK, CICS only ever has the one
 RB EXCEPT when we issue an SVC.

S370 hardware implements SVC's and Program Checks as
 interrupts. Thus, if CICS issues an SVC that then abends,
 the last interrupt we received WAS the SVC. So, this
 save area describes the last thing CICS did before the
 Abend.

Notes

1. If CICS issues an Abend (or program checks) from its
 own code, these two save areas are identical and identify
 the place where the Abend or program check happened.

2. In the case of requested recovery, both sets of PSW and
 Registers will identify the state at the time the request
 recovery was issued.

3. When the Abend is issued from 'the System', the two save
 areas are used for different purposes.

If the problem is to diagnose what VTAM/VSAM/MVS/etc. was
 doing for us at the time, the appropriate Error Data is the
 SYSTEM's, since that tells us what the state was on that
 side of the SVC.

If the problem is to diagnose an invalid request made by
 CICS, then the last thing CICS did is relevant and so the
 CICS Error Data is relevant.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------------------------|-----------------------------|
| (0) | STRUCTURE | 424 | KERNEL_ERROR_DATA | |
| (0) | CHARACTER | 8 | KERNEL_ ERROR_CODE | XXX/NNNN System & User Code |
| (8) | UNSIGNED | 1 | KERNEL_ ERROR_TYPE | Error type, see below |
| (9) | BITSTRING | 1 | KERNEL_ ERROR_FLAGS | MVS FLAGS |
| 1... .. | | | KERNEL_ ERROR_DUMP_ REQUESTED | |
| .111 ... | | | KERNEL_ ERROR_EXECUTING_ RB | A dump was requested |
| .1.. ... | | | KERNEL_ ERROR_SRB_MODE | Flags determining error RB. |
| ..1. | | | KERNEL_ ERROR_IRB | Error in SRB mode |
| ...1 | | | KERNEL_ ERROR_CICS_ RB_NOT_ACTIVE | IRB on RB stack |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------------|--|
| | 1... | | * | CICS RB not in control |
| |1.. | | KERNEL_ ERROR_REASON_PRESENT | Reserved |
| (A) |11 | 2 | KERNEL_ ERROR_SYSTEM_INT | Abend reason code is present Reserved |
| (C) | BITSTRING | 2 | KERNEL_ ERROR_USER_INT | XXX in binary format |
| (E) | HALFWORD | 2 | KERNEL_ ERROR_OFFSET | NNNN in binary format |
| (10) | CHARACTER | 8 | KERNEL_ ERROR_PROGRAM | Offset in program of error |
| (18) | ADDRESS | 4 | KERNEL_ ERROR_ADDRESS | Name of program in error |
| (1C) | FULLWORD | 4 | KERNEL_ ERROR_TASRQTOK | Address of program in error |
| (20) | FULLWORD | 4 | KERNEL_ ERROR_TASTRTOK | Attach token of task |
| (24) | ADDRESS | 4 | KERNEL_ ERROR_TAS_ADDRESS | Transaction token of task |
| (28) | FULLWORD | 4 | KERNEL_ ERROR_NUMBER | Address of task in error |
| (2C) | CHARACTER | 4 | KERNEL_ ERROR_REASON | Error number |
| (30) | CHARACTER | 160 | CICS_ERROR_DATA | Abend reason code |
| (30) | CHARACTER | 8 | CICS_ERROR_BC_PSW | CICS error data |
| (38) | CHARACTER | 8 | CICS_ERROR_EC_PSW | PSW BC Mode |
| (38) | CHARACTER | 2 | * | PSW EC Mode |
| (3A) | BITSTRING | 1 | CICS_ERROR_EC_BYTE3 | Padding |
| | 1... | | CICS_ERROR_AR_MODE | |
| (40) | CHARACTER | 8 | CICS_ERROR_EC_ADD | CICS AR mode flag |
| (48) | ADDRESS | 4 | CICS_ERROR_INSTRUCTION_ADDR | Int Code,ILC from SDWAAEC2 |
| (4C) | UNSIGNED | 1 | CICS_ERROR_KEY | PSW address |
| (4D) | UNSIGNED | 3 | * | PSW key in form X'n0' |
| (50) | CHARACTER | 64 | CICS_ERROR_REGST | PSW address |
| (50) | ADDRESS | 4 | CICS_ERROR_REGISTERS (16) | PSW key in form X'n0' |
| | | | | Registers in CICS |
| (90) | CHARACTER | 64 | CICS_ERROR_ACCESS_REGST | |
| (90) | ADDRESS | 4 | CICS_ERROR_ACCESS_REGISTERS (16) | |
| (D0) | CHARACTER | 160 | SYSTEM_ERROR_DATA | CICS Access Regs@L3A |
| (D0) | CHARACTER | 8 | SYSTEM_ERROR_BC_PSW | System error data |
| (D8) | CHARACTER | 8 | SYSTEM_ERROR_EC_PSW | PSW BC Mode |
| (D8) | CHARACTER | 2 | * | PSW EC Mode |
| (DA) | BITSTRING | 1 | SYSTEM_ERROR_EC_BYTE3 | PSW EC Mode |
| | 1... | | SYSTEM_ERROR_AR_MODE | PSW EC Mode |
| (E0) | CHARACTER | 8 | SYSTEM_ERROR_EC_ADD | SYSTEM AR mode flag |
| (E8) | ADDRESS | 4 | SYSTEM_ERROR_INSTRUCTION_ADDR | Int Code,ILC from SDWAAEC1 |
| (EC) | UNSIGNED | 1 | SYSTEM_ERROR_KEY | PSW address |
| (ED) | UNSIGNED | 3 | * | PSW key in form X'n0' |
| (F0) | CHARACTER | 64 | SYSTEM_ERROR_REGST | PSW address |
| (F0) | ADDRESS | 4 | SYSTEM_ERROR_REGISTERS (16) | PSW key in form X'n0' |
| (130) | CHARACTER | 64 | SYSTEM_ERROR_ACCESS_REGST | PSW address |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------------|-------------------------|
| (130) | ADDRESS | 4 | SYSTEM_ERROR_ACCESS_REGISTERS (16) | |
| (170) | BITSTRING | 8 | KERNEL_ERROR_TIMESTAMP | System access registers |
| (178) | CHARACTER | 32 | KERNEL_ERROR_FP_REGS | Timestamp of error |
| (178) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_0 | FP register values: |
| (180) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_2 | FP register 0 |
| (188) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_4 | FP register 2 |
| (190) | CHARACTER | 8 | KERNEL_ERROR_FP_REG_6 | FP register 4 |
| | | | | FP register 6 |

The following 2 fields are only valid if
KERNEL_ERROR_IN_SUBSPACE is set

| | | | | |
|-------|-----------|---|-----------------------------|---------------------|
| (198) | CHARACTER | 8 | KERNEL_ERROR_STOKEN | Stoken for subspace |
| (1A0) | CHARACTER | 4 | KERNEL_ERROR_ALET | ALET for subspace |
| (1A4) | BITSTRING | 1 | KERNEL_ERROR_SUBSPACE_FLAGS | |
| | | | 1... .. | |
| | | | KERNEL_ERROR_IN_SUBSPACE | error while in ss |
| (1A5) | CHARACTER | 3 | * | Reserved |
| | | | .111 1111 | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|------------------------------|-------------|
| 1 | DECIMAL | 1 | KERNEL_ERROR_PROGRAM_CHECK | |
| 1 | DECIMAL | 2 | KERNEL_ERROR_ABEND | |
| 1 | DECIMAL | 3 | KERNEL_ERROR_RUNAWAY | |
| 1 | DECIMAL | 4 | KERNEL_ERROR_REQUESTED | |
| 1 | DECIMAL | 5 | KERNEL_ERROR_PERCOLATE | |
| 1 | DECIMAL | 6 | KERNEL_ERROR_KERNERROR | |
| 1 | DECIMAL | 7 | KERNEL_ERROR_DEFERRED_ABEND | |
| 1 | DECIMAL | 8 | KERNEL_ERROR_LINKAGE | |
| 1 | DECIMAL | 9 | KERNEL_ERROR_ABEND_PERCOLATE | |
| 1 | DECIMAL | 10 | KERNEL_ERROR_ABEND_REQUESTED | |
| 1 | DECIMAL | 11 | KERNEL_ERROR_RUNNING_CANCEL | |

Kernel Error Executing RB : Test value
- Error occurred in CICS RB if:
not in SRB mode,
no IRB in RB stack,
and CICS RB was in control.

| | | | | |
|---|-----|-----|----------------------|--|
| 0 | BIT | 000 | KERNEL_ERROR_CICS_RB | |
|---|-----|-----|----------------------|--|

KPLEC Keypoint list element

CONTROL BLOCK NAME = DFHKPLEC
 DESCRIPTIVE NAME = CICS (FILE) Keypoint List Element DSECT
 FUNCTION =
 Declare a structure for the keypoint list element (KPLE).
 The keypoint list forms part of file control's implementation of fuzzy image copy, also known as backup while open. One KPLE exists for each keypoint and records the start and end times at which tie up records are written.
 LIFETIME =
 The keypoint list elements are created, processed and deleted (when they become redundant) by DFHFCBWO. DFHFCBWO is called from the file control recovery program DFHFCRC following RMKP take keypoint calls from recovery manager.
 LOCATION =
 The KPLE chain is anchored off fc_kple_chain in file control static storage.
 STORAGE CLASS =
 KPLEs are getmained from the variable length file control subpool above the line.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition.
 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| (0) | STRUCTURE | 20 | KPLE | keypoint list element |
| (0) | ADDRESS | 4 | KPLE_NEXT | pointer to next element, or null pointer if the last |
| (4) | CHARACTER | 8 | KPLE_START_WRITE_PACKED | |
| (4) | CHARACTER | 4 | KPLE_START_WRITE_DAY | when starting to write TURs |
| (8) | CHARACTER | 4 | KPLE_START_WRITE_TIME | ... in packed format 0CYYDDDC |
| (C) | CHARACTER | 8 | KPLE_END_WRITE_PACKED | ... in packed format HHMSSTC |
| (C) | CHARACTER | 4 | KPLE_END_WRITE_DAY | when ending write of TURs |
| (10) | CHARACTER | 4 | KPLE_END_WRITE_TIME | ... in packed format 0CYYDDDC |
| | | | | ... in packed format HHMSSTC |

LDGDS Loader statistics

CONTROL BLOCK NAME = DFHLDGDS
 DESCRIPTIVE NAME = CICS Loader Statistics
 FUNCTION =
 This block described the statistics maintained by the Loader.
 The loader maintains a single instance of this block representing its global statistics
 LIFETIME = This block is created by the Loader to satisfy a request for statistics
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = Data from Loader domain
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-------------|------------|-------------------|---|
| (0) | | | DFHLDGDS | Loader statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | LDGLEN | Length of data area |
| | ...1 111. | | LDGIDE | "30" Global loader stats id mask |
| (2) | ADDRESS | 2 | LDGID | Loader domain global stats id |
| |1 | | LDGVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | LDGDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| | 1... | | LDGHEND | *** End of header |
| | 1... | | LDGLEN | **-LDGLEN" Length of header |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | LDGGLOBAL | Global statistics DSECT |
| (0) | FULLWORD | 4 | LDGLLR | Number of library load requests |
| (4) | FULLWORD | 4 | LDGLLT | Total time for all loads |
| (8) | FULLWORD | 4 | LDGPUSES | Number of program uses |
| (C) | FULLWORD | 4 | LDGWLR | Number of loader reqs waiting |
| (10) | FULLWORD | 4 | LDGWLRHW | HWM waiting loader reqs |
| (14) | FULLWORD | 4 | LDGHWMT | Times at HWM |
| (18) | FULLWORD | 4 | LDGTTW | Total time waiting |
| (1C) | FULLWORD | 4 | LDGDREBS | Number of library DEB rebuilds |
| (20) | FULLWORD | 4 | LDGWTDLR | Number of loader reqs that waited |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | FULLWORD | 4 | | Reserved |
| (2C) | FULLWORD | 4 | | Reserved |
| (30) | FULLWORD | 4 | | Reserved |
| (34) | FULLWORD | 4 | | Reserved |
| (38) | FULLWORD | 4 | | Reserved |
| | ..11 11.. | | LDGGEND | *** End of global statistics |
| | ..11 11.. | | LDGLEN | **-LDGGLOBAL" Length of global statistics |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | LDGDSASTAT | Program stats on a DSA basis |
| (0) | FULLWORD | 4 | LDGSTGNIU | Amount of storage occupied by NIU programs |
| (4) | FULLWORD | 4 | LDGPROGNIU | Number of programs on NIU queue |
| (8) | FULLWORD | 4 | LDGRECNIU | Number of programs reclaimed from NIU queue |
| (C) | FULLWORD | 4 | LDGDPSCR | Number of programs removed by DPSC |
| (10) | BITSTRING | 8 | LDGDPSC | Total time on NIU queue |
| (18) | BITSTRING | 1 | LDGDSAINDEX | DSA index |
| (19) | BITSTRING | 3 | | Reserved |
| (1C) | FULLWORD | 4 | | Reserved |
| (20) | FULLWORD | 4 | | Reserved |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | FULLWORD | 4 | | Reserved |
| (2C) | FULLWORD | 4 | | Reserved |
| | ..11 | | LDGDSAEND | *** End of DSA program stats |
| | ..11 | | LDGDSALEN | **-LDGDSASTAT" Length of DSA program stats |
| Equates for LDGDSASTAT array | | | | |
| |11. | | LDGMAXDSA | "6" Number of elements |
| |1 | | LDGCDSA | "1" CDSA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|-------------|
| .... | .1. | | LDGECDSA | "2" ECDSA |
| .... | .11 | | LDGSDSA | "3" SDSA |
| .... | .1.. | | LDGESDSA | "4" ESDSA |
| .... | .1.1 | | LDGRDSA | "5" RDSA |
| .... | .11. | | LDGERDSA | "6" ERDSA |

LDRDS Loader statistics for programs

CONTROL BLOCK NAME = DFHLDRDS
 DESCRIPTIVE NAME = CICS Loader Statistics for programs
 FUNCTION =
 This block described the statistics collected by the Loader Domain.
 There is an instance of this block for each program for which statistics have been requested.
 LIFETIME = This block exists until the statistics request has been satisfied.
 STORAGE CLASS =
 LOCATION = The user is passed a pointer to the head of the block
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = Data from Loader Domain
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (0) | | | DFHLDRDS | Loader statistics (RESID) |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | LDRLLEN | Length of data area |
| ... | 1..1 | | LDRIDR | "25" Loader stats Resid mask |
| (2) | ADDRESS | 2 | LDRID | Loader domain stats id |
| .... | ...1 | | LDRVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | LDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | LDRPNAME | Program name |
| (10) | FULLWORD | 4 | LDRTU | Times used since last reset |
| (14) | FULLWORD | 4 | LDRFC | Fetch count |
| (18) | FULLWORD | 4 | LDRFT | Total time taken for all fetchs |
| (1C) | FULLWORD | 4 | LDRRPLO | Offset into RPL DD of owning PDS |
| (20) | FULLWORD | 4 | LDRTN | Times NEWCOP'ed |
| (24) | FULLWORD | 4 | LDRPSIZE | Program size |
| (28) | FULLWORD | 4 | LDRRPC | Times removed by program compression |
| (2C) | ADDRESS | 1 | LDRLOCN | Location of current copy |
| .... | .... |  | LDRNOCO | "X'00" No current copy |
| .... | ...1 | | LDRCDCO | "X'01" Current copy in the CDSA |
| .... | ..11 | | LDRLPACO | "X'03" Current copy in the LPA |
| .... | .1.. | | LDRECDCO | "X'04" Current copy in the ECDSA |
| .... | .11. | | LDRERDCO | "X'06" Current copy in the ERDSA |
| .... | .111 | | LDRELPCO | "X'07" Current copy in the ELPA |
| .... | 1.. | | LDRSDCO | "X'08" Current copy in the SDSA |
| .... | 1..1 | | LDRESDCO | "X'09" Current copy in the ESDSA |
| .... | 1.1. | | LDRRDco | "X'0A" Current copy in the RDSA |
| (2D) | ADDRESS | 3 | | Reserved |
| ..11 | .... |  | LDREND | "" |
| ..11 | .... |  | LDRCLLEN | ""-LDRLLEN" Length of DSECT |

LFM LIFO parameter list and standard DSA

CONTROL BLOCK NAME = DFHLPLST, DFHLFS
 DESCRIPTIVE NAME = CICS LIFO Parameter List and Standard DSA
 FUNCTION =
 Maps the parameter list passed to DFHLFA.
 The values of the field DFHLPMOD are given in the module
 identifiers in DFHFMIDS.
 Maps the standard DSA.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | | | DFHLPLST | DSECT FOR PLIST |
|  | .... .... |  | OFF0 | "00" OFFSET OF FLAGS |
| |1 | | OFF1 | "01" OFFSET OF STATUS FLAGS |
| |1. | | OFLN | "02" LENGTH OFFSET |
| |1.. | | OFDR | "04" CHAIN BACK OFFSET |
| | 11.. | | OFLR | "12" OFFSET OF REG 14 |
| | ...1 1... | | OFR1 | "24" OFFSET OF REG 1 |
| | .1.. 11.. | | OFNB | "X'4C" NAB OFFSET |
| | .1.. 11.. | | NAB | "X'4C" NAB OFFSET |
| | .1.1 | | OFTASN | "X'50" OFFSET OF TASN |
| | 1111 111. | | CINTISA | "X'FE" INITIAL SEGMENT NO * |

PLIST PASSED BETWEEN MODULE AND FIRST GET LIFO MODULE

| | | | | |
|------|-----------|---|-----------|---|
| (0) | HALFWORD | 2 | DFHLPLEN | LENGTH OF PLIST |
| (2) | HALFWORD | 2 | DFHLPDFG | DSA ID |
| (4) | HALFWORD | 2 | DFHLPDLN | DSA LENGTH |
| (6) | HALFWORD | 2 | DFHLPMDS | OFFSET OF MODULE START FROM PLIST START |
| (8) | FULLWORD | 4 | DFHLPTRC | TRACE FLAGS |
| (C) | HALFWORD | 2 | DFHLPMOD | MOD ID |
| (E) | HALFWORD | 2 | DFHLPMDC | MOD ID IN CHARACTER FORM |
| (10) | BITSTRING | 1 | DFHLPTRF | OPTION SETTING |
| | .1.. | | LFLPTRRC | "X'40" RECOVERY ROUTINE PRESENT |
| | 1... | | LFLPTRCN | "X'08" CONDITIONAL REQUEST |
| |1.. | | LFLPTRRN | "X'04" COND RETURN REQUEST |
| |1. | | LFLPTRIC | "X'02" IC LOGIC IS REQUESTED. |
| |1 | | LFLPTRTR | "X'01" TRACE IS REQUESTED. |
| (11) | BITSTRING | 1 | DFHLPTR2 | PERFORM,ACCOUNT,EXCEPT |
| (12) | BITSTRING | 1 | DFHLPRS3 | RESERVED |
| (13) | BITSTRING | 1 | DFHLPRS4 | RESERVED |
| (14) | FULLWORD | 4 | DFHLPSMD | Smode index |
|  | .... .... |  | DFHLPS31 | "0" Smode 31 |
| | 1... | | DFHLPS24 | "8" Smode 24 |
| (18) | ADDRESS | 4 | DFHLPPREC | Recovery routine address * |

STANDARD DSA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | | DFHLFS | |
| (0) | BITSTRING | 1 | LFDSOFF0 | FLAG BYTE 0 |
| (1) | BITSTRING | 1 | LFDSOFF1 | FLAG BYTE 1 |
| | 1... | | LFDSLLOOP | "X'80" DSA may be looping |
| | .1.. | | LFDSERRD | "X'40" DFHKERRD exists, i.e. stack in error state |
| | ...1 | | LFDSACR | "X'20" CICS Recovery added |
| | 1... | | LFDSSAVE | "X'10" Save area exists and is pointed to by KERNSAVP |
| |1.. | | LFDSLCON | "X'08" Loop controller |
| |1. | | LFSDSFAB | "X'04" Deferred abend scheduled against this stack |
| (2) | HALFWORD | 2 | LFDSOFLN | LENGTH OF DSA |
| (4) | ADDRESS | 4 | LFDSOFDR | CHAIN BACK |
| (8) | ADDRESS | 4 | | RESERVED |
| (C) | ADDRESS | 4 | LFDSOFBR | REG 14 |
| (10) | ADDRESS | 4 | LFDSOFBR | REG 15 |
| (14) | ADDRESS | 4 | LFDSOFR0 | REG 0 |
| (18) | ADDRESS | 4 | LFDSOFR1 | REG 1 |
| (1C) | ADDRESS | 4 | LFDSOFR2 | REG 2 |
| (20) | ADDRESS | 4 | LFDSOFAR | REG 3 |
| (24) | ADDRESS | 4 | LFDSOFR4 | REG 4 |
| (28) | ADDRESS | 4 | LFDSOFR5 | REG 5 |
| (2C) | ADDRESS | 4 | LFDSOFR6 | REG 6 |
| (30) | ADDRESS | 4 | LFDSOFR7 | REG 7 |
| (34) | ADDRESS | 4 | LFDSOFR8 | REG 8 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-------------------------------|
| (38) | ADDRESS | 4 | LFDSOFR9 | REG 9 |
| (3C) | ADDRESS | 4 | LFDSOFRX | REG 10 |
| (40) | ADDRESS | 4 | LFDSOFRY | REG 11 |
| (44) | ADDRESS | 4 | LFDSOFRCR | REG 12 |
| (48) | ADDRESS | 4 | LFDSVDR | R13 OR R14 IF CRCE SET |
| (4C) | ADDRESS | 4 | | Used by Kernel. |
| (50) | ADDRESS | 4 | LFDSTASN | ADDRESS OF TASK ENTRY. |
| (54) | ADDRESS | 4 | LFDSPOWN | ADDRESS OF PROCESS OWN. |
| (58) | ADDRESS | 4 | LFSDSTAB | Caller's domain entry |
| (5C) | FULLWORD | 4 | LFDSTRFL | Trace flags |
| (60) | ADDRESS | 4 | LFDSOFNB | NAB |
| (64) | ADDRESS | 4 | LFDSAPLT | A(MODULE PLIST) |
| (68) | ADDRESS | 4 | | Used by Kernel. |
| (6C) | FULLWORD | 4 | LFDSMOD | SMODE index 0=31-bit 8=24-bit |
| (70) | BITSTRING | 1 | LFDSMOD1 | MODULE ID |
| (71) | BITSTRING | 1 | LFDSMOD2 | SUB MODULE ID |
| (72) | HALFWORD | 2 | LFDSMODN | MOD NAME 2 CHAR |
| (74) | ADDRESS | 4 | | Reserved. |
| (78) | ADDRESS | 4 | | Reserved. |
| (7C) | ADDRESS | 4 | | Reserved. |
| (80) | DBL WORD | 8 | LFDSUSS1 (0) | USER AREA START |
| (80) | DBL WORD | 8 | LFDSUSS2 (0) | START USER AREA AFTER COPY * |

END OF STANDARD SECTION
 Kernel Domain Table Entry Overlay. Pointed to by LFSDSTAB.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------|
| (0) | | | LFSDSTE | ' |
| (0) | CHARACTER | 8 | | Used by Kernel |
| (8) | FULLWORD | 4 | LFSDSTEI | Domain index |
| (C) | CHARACTER | 4 | | USED BY KERNEL |
| (10) | ADDRESS | 4 | LFSDTEA | Domain anchor |
| (14) | CHARACTER | 1 | (0) | Used by Kernel |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|----------------------|
| (0) | | | DFHLFS | Continue stack dsect |

LGGF General log format

A General Log is any CICS log other than the CICS System Log. It may reside upon the MVS Logger or upon MVS SMF. Such a log comprises a sequence of contiguous blocks. A block is the unit of output when flushing the internal log buffer.

Each block comprises a block header followed by a variable number of CICS records. The format of the block header is defined by the dsect "lgbh_block_header".

Each CICS record comprises a record header followed by the caller data part. The record header is defined by the dsect "glrh_record_header".

The format of the caller data part is unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers followed by yet another embedded caller data part. The record header fields "glrh_rec_type" and "glrh_rec_compid" indicates which CICS component is to be used to define this part of the record.

If this is 'UJ', which means the record originated from an application program, then this record header is followed by a user header as defined by "cl_user_header".

The following diagram shows the physical layout of a General Log block.

```

general log
__ first general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ __ record header (glrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ __ ...
__ __ __ __ last cics record
__ __ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...
  
```

This copybook defines the block header, record header, general user header, and 'start of run' record body for General Logs.

Each block starts with a block header as defined here.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------------|-----------------------------|
| (0) | STRUCTURE | 40 | LGBH_BLOCK_HEADER | |
| (0) | STRUCTURE | 40 | * | |
| | | | IsA(MVSLOGBLOCKHEADER) | |
| (0) | CHARACTER | 8 | LGBH_GLOBAL_INFO | |
| (0) | CHARACTER | 4 | LGBH_BLOCK_TYPE | set to '>DFH' to |
| (0) | CHARACTER | 1 | LGBH_BT_ARROW | identify a CICS |
| (1) | CHARACTER | 3 | LGBH_BT_DFH | block |
| (4) | CHARACTER | 4 | * | |
| (4) | UNSIGNED | 1 | LGBH_LOG_TYPE | general or system log |
| (5) | CHARACTER | 1 | LGBH_FLAGS | reserved |
| (6) | UNSIGNED | 2 | LGBH_BLOCK_VER | block format version number |
| (8) | CHARACTER | 24 | LGBH_CICS_INFO | |
| (8) | CHARACTER | 8 | LGBH_GENERIC_APPLID | CICS generic applid |
| (10) | CHARACTER | 8 | LGBH_START_GMT | record time (GMT) |
| (18) | CHARACTER | 8 | LGBH_START_LOCAL | record time (LOCAL) |
| (20) | CHARACTER | 8 | LGBH_BLOCK_INFO | |
| (20) | CHARACTER | 8 | LGBH_BLOCK_NUMBER | block sequence number |
| (28) | CHARACTER | | LGBH_DATA | records follow |

```
--
-

Each record starts with a record header as defined here.
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|---------------------------------|
| (0) | STRUCTURE | 56 | GLRH_RECORD_HEADER | |
| (0) | STRUCTURE | 56 | * | |
| (0) | CHARACTER | 12 | IsA(GENLOGRECORD) | |
| (0) | UNSIGNED | 4 | GLRH_RECORD_LENGTH | |
| (4) | UNSIGNED | 4 | GLRH_HEADER_LENGTH | inclusive length of this record |
| (8) | UNSIGNED | 4 | GLRH_REC_DATA_LEN | inclusive length of this header |
| (C) | CHARACTER | 16 | GLRH_TIMESTAMPS | timestamps |
| (C) | CHARACTER | 8 | GLRH_GMT | record time (GMT) |
| (14) | CHARACTER | 8 | GLRH_LOCAL | record time (LOCAL) |
| (1C) | CHARACTER | 12 | GLRH_TASK_INFO | logging task information |
| (1C) | CHARACTER | 4 | GLRH_TRAN_ID | transaction id |
| (20) | CHARACTER | 4 | GLRH_TASK_ID | task number |
| (24) | CHARACTER | 4 | GLRH_TERM_ID | terminal id |
| (28) | CHARACTER | 12 | GLRH_RECORD_ID | record identification |
| (28) | UNSIGNED | 2 | GLRH_REC_TYPE | start_of_run (sor) or user |
| (2A) | CHARACTER | 2 | GLRH_REC_COMPID | logging component id |
| (2C) | CHARACTER | 8 | GLRH_REC_JOURNAL | logging journal name |
| (34) | CHARACTER | 4 | GLRH_LGSSI | for DFHLGSSI conversion rtn |
| (34) | CHARACTER | 1 | GLRH_LGSSI_FLAGS | not set for system log |
| | 1... .. | | GLRH_START_OF_TASK | |
| | .1.. .. | | GLRH_START_OF_UOW | equivalent to JCSPSOTK |
| (35) | CHARACTER | 3 | GLRH_LGSSI_RSVD | reserved |
| (38) | CHARACTER | | GLRH_REC_DATA | reserved |

```
--
-

When CICS connects to a MVS Logger General Log it writes a 'start-of-run' record to the log as the first record written during this run of CICS. This record is made up of a record header as defined above followed by the dsect "gl_sor_body".

NOTE: "gl_sor_body" is a particular case of 'caller data' referred to above.

The following diagram shows how a 'start-of-run' record appears within a General Log block.

general log
___ ...
___ a general log block
___ block header (lgbh_block_header)
___ first cics record
___ record header (glrh_record_header)
___ start of run record body (gl_sor_body)
___ next cics record
___ ...
___ last cics record
___ ...
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------|
| (0) | STRUCTURE | 20 | GL_SOR_BODY | |
| (0) | STRUCTURE | 20 | * | |
| (0) | CHARACTER | 20 | IsA(STARTOFRUNDATA) | |
| (0) | CHARACTER | 20 | SOR_CICS_INFO | start-of-run information |
| (0) | CHARACTER | 4 | SOR_CICS_RELEASE | CICS version and release |
| (4) | CHARACTER | 8 | SOR_SPECIFIC_APPLID | CICS specific applid |
| (C) | CHARACTER | 8 | SOR_CICS_USERNAME | CICS userid |

```
--
-
```

The CICS API supports writing directly to a user journal (which may be a General Log or the System Log) using the EXEC CICS WRITE JOURNALNAME command. This takes as input the journal type, user data and optional user prefix data. These elements are put together as shown in the dsect "cl_user_header".

NOTE: "cl_user_header" is a particular case of 'caller data' referred to above.

In this case "glrh_rec_compnd" will be set to 'UJ'.

The following diagram shows how a user header appears within a General Log record.

```

general log
__ ...
__ general log block
__ block header (lgbh_block_header)
__ first cics record
__ ...
__ next cics record
__ record header (glrh_record_header)
__ user header (cl_user_header)
__ rest of caller data
__ last cics record
__ ...

```

NOTE: "cl_uh_prefix_length" shows the number of bytes of data that is contained in the user prefix. The user prefix data, if present, immediately follows this header, which in turn is followed by the user data.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------|-----|---------------------|---|
| (0) | STRUCTURE | 12 | CL_USER_HEADER | |
| (0) | STRUCTURE | 12 | * | |
| | IsA(GENLOGUSER) | | | |
| (0) | UNSIGNED | 4 | CL_UH_LENGTH | length of structure inclusive of this field |
| (4) | UNSIGNED | 2 | CL_UH_JOURNAL_TYPE | journal type |
| (6) | CHARACTER | 2 | CL_UH_RSVD1 | reserved |
| (8) | UNSIGNED | 4 | CL_UH_PREFIX_LENGTH | user prefix length |
| (C) | CHARACTER | | CL_UH_END | user prefix data (if any) followed by user data |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|-----------------------|-------------|
| 2 | DECIMAL | 1 | LGBH_BLOCK_VERSION_NO | |
| 3 | CHARACTER | DFH | LGBH_BLOCK_TYPE_DFH | |
| 1 | CHARACTER | > | LGBH_BLOCK_TYPE_ARROW | |
| 1 | DECIMAL | 0 | LGBH_LOG_TYPE_GENERAL | |
| 1 | DECIMAL | 1 | LGBH_LOG_TYPE_SYSTEM | |
| 2 | DECIMAL | 1 | SOR_REC_TYPE | |
| 2 | DECIMAL | 2 | USER_REC_TYPE | |

LGMS SMF log format

A CICS user journal (not the System Log) can be defined to reside upon SMF (a special log that MVS SMF manages). This log comprises a sequence of contiguous blocks, some of which are built and written by CICS.

Each block built and written by CICS comprises a SMF block header, CICS SMF product section, followed by a CICS data section. The latter comprises of a variable number of CICS records. The format of the block header is defined by the dssect "smf_block_header".

The SMF CICS data section, which only shows its start address, has been included for completeness. In reality this section includes a variable number of CICS records.

Each CICS record comprise a record header followed by the caller data part. The format of the record header is defined by the dssect "glrh_record_header". The format of the caller data part is unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers. The record header fields "glrh_rec_type" and "glrh_rec_compid" indicates which CICS component is to be used to define this part of the record.

The following diagram shows the physical layout of an SMF log block

```

MVS SMF log
__ first log block
__ __ smf block header (smf_header)
__ __ smf cics product section (smf_product_section)
__ __ smf cics data section (smf_data_section)
__ __ __ first cics record
__ __ __ __ record header (lgrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ __ ...
__ __ __ __ last cics record
__ __ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...
    
```

This copybook defines the SMF block header. It should be used in conjunction with the General Log copybook DFHLGGFD which defines the record header and user header.

Each block starts with a block header as defined here.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------------|---|
| (0) | STRUCTURE | 158 | SMF_BLOCK_HEADER | |
| (0) | STRUCTURE | 158 | * | |
| | | | ISA(SMFLOGBLOCKHEADER) | |
| (0) | CHARACTER | 44 | SMF_HEADER | |
| (0) | UNSIGNED | 2 | SMFH_LEN | record length |
| (2) | UNSIGNED | 2 | SMFH_SEG | segment descriptor |
| (4) | CHARACTER | 1 | SMFH_FLG | operating system indicator (see constant prefixed smfh_flg below) |
| (5) | CHARACTER | 1 | SMFH_RTY | record type (see constant prefixed smfh_rty below) |
| (6) | CHARACTER | 4 | SMFH_TME | time record moved (HHMMSS+) |
| (A) | CHARACTER | 4 | SMFH_DTE | date record moved (0CYYDDD+) |
| (E) | CHARACTER | 4 | SMFH_SID | system identification |
| (12) | CHARACTER | 4 | SMFH_SSI | sub-system identification (see constant prefixed smfh_ssi below) |
| (16) | UNSIGNED | 2 | SMFH_STY | record subtype (see constant prefixed smfh_sty below) |
| (18) | UNSIGNED | 2 | SMFH_TRN | number of triplets in record |
| (1A) | UNSIGNED | 2 | SMFH_RSVD1 | reserved |
| (1C) | UNSIGNED | 4 | SMFH_APS | offset to CICS product section |
| (20) | UNSIGNED | 2 | SMFH_LPS | length of CICS product section |
| (22) | UNSIGNED | 2 | SMFH_NPS | number of CICS product sections |
| (24) | UNSIGNED | 4 | SMFH_ASS | offset to CICS data section |
| (28) | UNSIGNED | 2 | SMFH_ASF | length of CICS data section |
| (2A) | UNSIGNED | 2 | SMFH_ASN | number of CICS data sections |
| (2C) | CHARACTER | | * | |
| (2C) | CHARACTER | 114 | SMF_PRODUCT_SECTION | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---|
| (2C) | CHARACTER | 2 | SMFPS_VRM | record version format x'0vrrm' v = version r = release m = modification (set to &SMF in DFHSYS) |
| (2E) | CHARACTER | 8 | SMFPS_PRN | product name (generic APPLID) |
| (36) | CHARACTER | 8 | SMFPS_SPN | specific APPLID |
| (3E) | CHARACTER | 2 | SMFPS_MFL | record maintenance indicator |
| (40) | CHARACTER | 2 | SMFPS_RSVD2 | reserved |
| (42) | CHARACTER | 52 | SMFPS_RSVD3 | reserved |
| (76) | CHARACTER | 8 | SMFPS_JNM | journal name |
| (7E) | CHARACTER | 8 | SMFPS_JBN | jobname |
| (86) | CHARACTER | 4 | SMFPS_RSD | job date |
| (8A) | CHARACTER | 4 | SMFPS_RST | job time |
| (8E) | CHARACTER | 8 | SMFPS_UIF | user identification |
| (96) | CHARACTER | 8 | SMFPS_PDN | operating system product level |
| (9E) | CHARACTER | | * | |
| (9E) | CHARACTER | | SMF_DATA_SECTION | CICS records |
| (9E) | CHARACTER | | SMFDS_DATA | records follow |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|--------------------------|---------------------------|
| 4 | CHARACTER | CICS | SMFH_SSI_CICS | sub-system identification |
| 1 | CHARACTER | ú | SMFH_FLG_ESA4 | MVS/ESA V4 |
| 1 | CHARACTER | > | SMFH_RTY_110 | record type 110 for CICS |
| 2 | DECIMAL | 0 | SMFH_STY_LG | for journaling |
| 2 | DECIMAL | 1 | SMFH_STY_MN | for monitoring |
| 2 | DECIMAL | 2 | SMFH_STY_ST | for statistics |
| 4 | DECIMAL | 2 | SMFH_NUMBER_TRIPLETS | |
| 4 | DECIMAL | 0 | SMFH_MFL_ID | |
| 2 | HEX | 0530 | SMFPS_VRM_VAL | |
| 2 | DECIMAL | 0 | SMFPS_MFL_0 | |
| 4 | DECIMAL | 44 | SMFH_PRD_SECT_OFFSET | |
| 4 | DECIMAL | 114 | SMFH_PRD_SECT_LENGTH | |
| 4 | DECIMAL | 1 | SMFH_PRD_SECT_NUMBER | |
| 4 | DECIMAL | 158 | SMFH_DATA_SECT_OFFSET | |
| 4 | DECIMAL | 0 | SMFH_DATA_SECT_LENGTH | |
| 4 | DECIMAL | 1 | SMFH_DATA_SECT_NUMBER | |
| 4 | DECIMAL | 32756 | SMF_MAX_BLOCK_LEN | |
| 4 | DECIMAL | 32598 | SMF_MAX_DATA_SECTION_LEN | |

LGRDS Log manager journal statistics

CONTROL BLOCK NAME = DFHLGRDS
 DESCRIPTIVE NAME = CICS Log Manager Journal Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains journal statistics provided by the Log Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Log Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from logger domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------|
| (0) | | | DFHLGRDS | Log Mgr Resid stats record |
| (0) | HALFWORD | 2 | LGRLEN | Record length |
| (2) | ADDRESS | 2 | LGRID | Log Manager stats id |
| (4) | CHARACTER | 1 | LGRDVERS | Log Manager stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | LGRJNLNAME | Journal name |
| (10) | BITSTRING | 1 | LGRJTYPE | Journal type (MVS,SMF,Dummy) |
| (11) | CHARACTER | 1 | | Reserved |
| (12) | CHARACTER | 26 | LGRSTREAM | Log stream name |
| (2C) | FULLWORD | 4 | LGRWRITES | No of journal writes |
| (30) | BITSTRING | 8 | LGRBYTES | Total No of bytes written |
| (38) | FULLWORD | 4 | LGRBUFLSH | No of buffer flush requests |
| (3C) | CHARACTER | 8 | | Reserved |
| | .1.. .1.. | | LGREND | "" |
| | .1.. .1.. | | LGRDLEN | ""-LGRLEN" Record length |

Constants that denote a LG stats record

| | | | |
|------|------|---------|---------------------------------|
| .1.1 | 11.1 | LGRIDR | "93" Log Manager resid stats id |
| .... | ...1 | LGRVERS | "X'01" Record version number |

LGRJTYPE enumeration

| | | | |
|------|------|-------------|--------------------|
| .... | ...1 | LGRJTYPMVS | "1" MVS log stream |
| .... | ..1. | LGRJTYPESMF | "2" SMF log |
| .... | ..11 | LGRJTYPEDMY | "3" Dummy log |

LGSDS Log manager logstream statistics

CONTROL BLOCK NAME = DFHLGSDS
 DESCRIPTIVE NAME = CICS Log Manager Logstream Statistics
 FUNCTION =
 This data area contains logstream statistics provided by the Log Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the Log Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from logger domain
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGSDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | | | DFHLGSDS | Log Mgr Resid stats record |
| (0) | HALFWORD | 2 | LGSLLEN | Record length |
| (2) | ADDRESS | 2 | LGSID | Log Manager logstream stats id |
| (4) | CHARACTER | 1 | LGSDVERS | Log Manager stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 26 | LGSSTRNAM | Log stream name |
| (22) | CHARACTER | 2 | | Reserved |
| (24) | FULLWORD | 4 | LGSWRITES | No of log writes |
| (28) | BITSTRING | 8 | LGSBYTES | Total No of bytes written |
| (30) | FULLWORD | 4 | LGSCUFWTRS | Current number of force waiters |
| (34) | FULLWORD | 4 | LGSPKFWTRS | Peak number of force waiters |
| (38) | FULLWORD | 4 | LGSTFCWAIT | Total number of force waits |
| (3C) | FULLWORD | 4 | LGSBUFWAIT | No of waits due to buffer full |
| (40) | FULLWORD | 4 | LGSBRWSTRT | No of log browse starts |
| (44) | FULLWORD | 4 | LGSBRWREAD | No of log browse reads |
| (48) | FULLWORD | 4 | LGSDELETES | No of log deletes |
| (4C) | FULLWORD | 4 | LGSRTYERRS | No of retryable errors |
| (50) | FULLWORD | 4 | LGSBUFAPP | No of buffer append reqs |
| (54) | CHARACTER | 1 | LGSSYSLG | System log flag |
| (55) | CHARACTER | 1 | LGSDONLY | DASD only flag |
| (56) | CHARACTER | 2 | | Reserved |
| (58) | CHARACTER | 16 | LGSSTRUC | CF structure name |
| (68) | FULLWORD | 4 | LGSMAXBL | Max block length |
| (6C) | FULLWORD | 4 | LGSRETPD | Data retention period |
| (70) | CHARACTER | 1 | LGSAUTOD | Data auto delete flag |
| (71) | CHARACTER | 3 | | Reserved |
| (74) | CHARACTER | 4 | | Reserved |
| (78) | CHARACTER | 4 | | Reserved |
| .111 11.. | | | LGSEND | "" |
| .111 11.. | | | LGSDSLEN | ""-LGSLLEN" Record length |

Constants that denote a LG logstream stats record

| | | |
|-----------|----------|-------------------------------------|
| .1.1 111. | LGSIDR | "94" Log Manager resid stats id |
|1 | LGSDVERS | "X'01" Record version number |
|1 | LGSSLYES | "X'01" System log flag - yes |
|1. | LGSSLNO | "X'02" System log flag - no |
|1 | LGSDOYES | "X'01" DASD only log stream - yes |
|1. | LGSDONO | "X'02" DASD only log stream - no |
|1 | LGSADYES | "X'01" Auto delete log stream - yes |
|1. | LGSADNO | "X'02" Auto delete log stream - no |

LLDC Tc local logical device code table

CONTROL BLOCK NAME = DFHLLDC
 DESCRIPTIVE NAME = CICS (TC) Local Logical Device Code Table
 FUNCTION =
 LOCAL LOGICAL DEVICE CODE
 AVAILABILITY LIST
 The Local Logical Device Code (LLDC) is an optional table that is used to override values specified in the System Logical Device Code (SLDC) table. The LLDC table is generated by the DFHTCT TYPE=TERMINAL or DFHTCT TYPE=LDCLIST macro instructions.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHLLDC | |
| (0) | BITSTRING | 1 | LLDCFLGS | FLAGS |
| | 1... .. | | LLDCEXT | "X'80" EXTENDED LOCAL LIST |
| (0) | CHARACTER | 2 | LLDCMN | LOGICAL DEVICE CODE MNEMONIC |
| (2) | BITSTRING | 1 | LLDCCD | LOGICAL DEVICE CODE |
| |11 | | LLDCEND | "" END OF LOCAL LOGICAL DEVICE CODE ENTRY |
| |11 | | LLDCLEN | ""-DFHLLDC" LENGTH OF LOCAL LDC ENTRY |

LUC Parameter list

CONTROL BLOCK NAME = DFHLUCPS
 DESCRIPTIVE NAME = CICS DFHLUC Parameter List
 FUNCTION =
 Contains the request and response for modules called by the DFHLUC macro.
 When the DFHLUC macro is used to invoke a LU6.2 request appropriate fields in the parameter list are set, and module DFHZARL is invoked. All information passed to and from DFHZARL is passed in this parameter list.
 It is also used to pass information from DFHZARL to DFHZERH and DFHZARR for certain requests, and to DFHZXR3 for LU6.2 transaction routing.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 The control block is located in the LIFO storage of the module which issues the DFHLUC macro; it may also be copied into the LIFO of the called module.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 20 | DFHLUCDS | |
| The first part of the parameter list is common to all requests | | | | |
| (0) | CHARACTER | 1 | LUCOPN0 | MAJOR REQUEST BYTE |
| (1) | CHARACTER | 1 | LUCOPN1 | MINOR REQUEST BYTE 1 |
| (1) | CHARACTER | | * | ALLOCATE / ALLOCATE PRIV |
| | 1... .. | | LUCNOQ | NOQUEUE specified |
| | .1.. | | LUCASYSV | LUCASYS is valid |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | LUCAPRFV | APROFILE specified |
| |1.. | | LUCNPRFV | NPROFILE specified |
| |1 | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | INITIAL CALL, SEND, SEND-FMH |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... .. | | LUCFROM | Initial data provided or application data provided |
| | .1. | | LUCLISTV | LLID data specified |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | ISSUE ABEND / ISSUE ERROR |
| | 1... .. | | LUCABUSE | User invocation |
| | .1. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | ISSUE ATTACH request |
| | 1... .. | | LUCNOCHK | TPN check not required |
| | .1. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | RECEIVE / RECEIVE FMH request |
| | 1... .. | | LUCSET | SET option specified |
| | .1. | | LUCBELOW | DATALOC option |
| | ..1. | | LUCNOLA | Look Ahead option |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | SYNC-COMMITTED request |
| | 1... .. | | LUCEXP | Explicit FORGET specified |
| | .1. | | LUCIMPF | Implicit FORGET specified |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (1) | CHARACTER | | * | FREE request |
| | 1... .. | | LUCFRIMP | IMPLICIT free |
| | .1. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (2) | CHARACTER | 1 | LUCOPN2 | MINOR REQUEST BYTE 2 |
| (2) | CHARACTER | | * | ALLOCATE / ALLOCATE-PRIV |
| | 1... .. | | LUCMODNV | LUCMODNM is valid |
| | .1. | | LUCATI | 'ATT' Allocate |
| | ..1. | | LUCPRIV | ALLOCATE PRIV request |
| | ...1 | | LUCNETV | NETNAME= specified |
| | 1... | | LUCMNPRF | Modename set to use profile modename |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (2) | CHARACTER | | * | ISSUE ERROR / ISSUE ABEND |
| | 1... .. | | LUCAMSGV | LUCAMSG, LUCLMSG valid |
| | .1. | | LUCSENSV | LUCSENSE is valid |
| | ..1. | | LUCMSGNV | LUCMSGNO is valid |
| | ...1 | | * | |
| | 1... | | LUCSEND | STATE=SEND was specified |
| |1.. | | LUCSRECV | STATE=RECEIVE specified |
| |1. | | * | |
| |1 | | * | |
| (2) | CHARACTER | | * | RECEIVE request |
| | 1... .. | | LUCLLID | receive LLID |
| | .1. | | LUCBUFR | receive BUFFER |
| | ..1. | | LUCIMMED | SUBTYPE=IMMEDIATE specified |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (2) | CHARACTER | | * | SEND / SEND-FMH request |
| | 1... .. | | LUCNVIT | INVITE option |
| | .1. | | LUCLAST | LAST option (also used for SYNC- PREPARE and SYNC-REQ-COMMIT |
| | ..1. | | LUCCONF | CONFIRM option |
| | ...1 | | LUCFLSH | WAIT (or FLUSH) option |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (3) | CHARACTER | 1 | LUCOPN3 | MINOR REQUEST BYTE 3 |
| (3) | CHARACTER | | * | |
| | 1... .. | | LUCSYSCL | System call |
| | .1.. .. | | LUCNOSIG | Do not return SIGNAL (Rec) |
| | ..1. | | LUCNOSF | Do not return sess fails |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (4) | CHARACTER | 6 | LUCRCODE | FEEDBACK FOR REQUEST RELATED ERRORS |
| (4) | CHARACTER | 1 | LUCRCOD1 | MAJOR ERROR BYTE |
| (5) | CHARACTER | 1 | LUCRCOD2 | MINOR ERROR BYTE |
| (6) | CHARACTER | 1 | LUCRCOD3 | MINOR ERROR BYTE |
| (7) | CHARACTER | 1 | LUCRCOD4 | Reserved |
| (8) | CHARACTER | 1 | LUCRCOD5 | Reserved |
| (9) | CHARACTER | 1 | LUCRCOD6 | Reserved |
| (A) | CHARACTER | 6 | LUCSDBLK | FEEDBACK FOR Conversation Related Errors |
| (A) | CHARACTER | 1 | LUCFDBK1 | STORAGE DEFINITION |
| | 1... .. | | LUCCIDCM | 1 - DATA COMPLETE |
| | .1.. .. | | LUCCISYN | 1 - SYNCPOINT REQ'D |
| | ..1. | | LUCCIFRE | 1 - FREE REQUESTED |
| | ...1 | | LUCCIREC | 1 - RECEIVE REQUIRED |
| | 1... | | LUCCISIG | 1 - SIGNAL RECEIVED |
| |1.. | | LUCCICON | 1 - CONFIRMATION REQ'D |
| |1. | | LUCCIERR | 1 - ERROR RECEIVED |
| |1 | | LUCCIRBK | 1 - ROLLBACK REQUESTED |
| (B) | CHARACTER | 1 | LUCFDBK2 | Negative response received |
| | 1... .. | | LUCCINEG | RECEIVE IMMEDIATE was unsuccessful |
| | .1.. .. | | LUCCINSU | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (C) | CHARACTER | 4 | LUCCDRCD | ERROR CODE RECEIVED |
| (10) | ADDRESS | 4 | LUCTTERQ | ADDRESS OF TCTTE FOR THE CURRENT REQUEST |

The second part of the parameter list is used by some requests only, and in different ways by each request:

| | | | | |
|------|-----------|--|--------|--|
| (14) | CHARACTER | | LUCORG | ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG |
|------|-----------|--|--------|--|

Overlay for ALLOCATE and ALLOCATE-PRIV requests

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|----------------------------|
| (14) | STRUCTURE | 52 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCASYS | SYSID (TCTSE) ADDRESS |
| (18) | CHARACTER | 4 | LUCNSYS | SYSID (TCTSE) NAME |
| (1C) | CHARACTER | 8 | LUCMODNM | MODENAME |
| outputs | | | | |
| (24) | ADDRESS | 4 | LUCTTEAL | ADDRESS OF ALLOCATED TCTTE |
| further inputs | | | | |
| (28) | ADDRESS | 4 | LUCAPROF | Address of PROFILE |
| (2C) | CHARACTER | 8 | LUCNPROF | Name of PROFILE |
| (34) | FULLWORD | 4 | LUCNETNL | Netname length |
| (38) | CHARACTER | 8 | LUCNETNM | Netname |
| (40) | CHARACTER | 8 | LUCMGAL | Mode group allocated |

Overlay for EXTRACT PROCESS requests

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (14) | STRUCTURE | 92 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCEPCON | CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (15) | CHARACTER | 1 | LUCEPSYN | SYNCLEVEL SPECIFIED IN LU6.2 ATTACH FMH RECEIVED |
| (16) | CHARACTER | 1 | LUCTTPNL | ACTUAL LENGTH OF TPN IN LU6.2 ATTACH FMH RECEIVED |
| (17) | CHARACTER | 64 | LUCTTPN | TPN IN LU6.2 ATTACH FMH RECEIVED |
| (57) | CHARACTER | 1 | * | alignment |
| (58) | ADDRESS | 4 | LUCPIPDA | address of PIP list |
| (5C) | HALFWORD | 2 | LUCPIPDL | LENGTH OF PIPLIST |
| (5E) | CHARACTER | 8 | LUCMODEN | Mode name |
| (66) | HALFWORD | 2 | LUCLUNML | Length of fully qualified LU name |
| (68) | CHARACTER | 8 | LUCLUNAM | Qualified LU name |

Overlay for FREE STORAGE request

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------|
| (14) | STRUCTURE | 4 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCASTG | ADDR STORAGE TO BE FREED |

Overlay for GET-MY-LUNAME request

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (14) | STRUCTURE | 4 | * | |
| outputs | | | | |
| (14) | ADDRESS | 4 | LUCALUNM | ADDRESS OF QUALIFIED LUNAME - ONE BYTE LENGTH FOLLOWED BY QUALIFIED LUNAME |

Overlay for ISSUE-ABEND and ISSUE-ERROR requests

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------|
| (14) | STRUCTURE | 12 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCAMSG | MESSAGE TEXT ADDRESS |
| (18) | HALFWORD | 2 | LUCLMSG | MESSAGE TEXT LENGTH |
| (1A) | CHARACTER | 2 | LUCMSGNO | MESSAGE NUMBER |
| (1C) | CHARACTER | 4 | LUCSENSE | SENSE CODE |

Overlay for ISSUE-ATTACH request

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (14) | STRUCTURE | 68 | * | |
| inputs | | | | |
| (14) | CHARACTER | 1 | LUCRQCON | CONVTYPE REQUIRED IN LU6.2 ATTACH FMH SENT |
| (15) | CHARACTER | 1 | LUCRQSYN | SYNCLEVEL REQUIRED IN LU6.2 ATTACH FMH SENT |
| (16) | CHARACTER | 1 | LUCFTPNL | LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT |
| (17) | CHARACTER | 64 | LUCFTPN | TPN FOR LU6.2 ATTACH FMH SENT |
| (57) | CHARACTER | 1 | LUCPIP | PIP DATA TO BE SENT |
| | 1... | | * | |
| | .1.. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | LUCPIPI | 1 - PIP DATA PRESENT |

Overlay for RECEIVE (R) and RECEIVE-FMH (RF) requests

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (14) | STRUCTURE | 16 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCTAREA | INTO AREA ADDR (R, RF) |
| (18) | FULLWORD | 4 | LUCTAREL | MAX. APPL LENG (R, RF) |
| outputs | | | | |
| (1C) | ADDRESS | 4 | LUCBFPTR | SET DATA ADDR (R, RF) |
| (20) | FULLWORD | 4 | LUCTDATL | ACT. DATA LENG (R, RF) |

Overlay for SEND (S), SEND-FMH (SF) and INITIAL-CALL requests

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------|
| (14) | STRUCTURE | 16 | * | |
| inputs | | | | |
| (14) | ADDRESS | 4 | LUCFDATA | DATA ADDRESS (S, SF) |
| (18) | FULLWORD | 4 | LUCFDATL | DATA LENGTH (S, SF) |
| (1C) | ADDRESS | 4 | LUCLISTA | LIST address (Send) |
| (20) | FULLWORD | 4 | LUCLISTS | LIST size |

Overlay for SYNC-PREPARE request

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------------|
| (14) | STRUCTURE | 1 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSPRET | RESULT OF PREPARE |
| | 1... .. | | LUCSPRQD | RQD2 received |
| | .1.. .. | | LUCSPFGT | FORGET received |
| | ..1. | | LUCSPHM | HM Received |
| | ...1 | | LUCSPVUR | Vote unreliable received |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |

Overlay for SYNC-REQ-COMMIT request

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (14) | STRUCTURE | 1 | * | |
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSRRET | RESULT OF REQUEST COMMIT |
| | 1... .. | | LUCSRDR2 | DR2 received |
| | .1.. .. | | LUCSRNVL | Invalid response received |
| | ..1. | | LUCSRHM | HM received |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |

Overlay for SYNC-COMMITTED request

| Offset Hex (14) | Type | Len | Name (Dim) | Description |
|-----------------|-----------|-----|------------|---------------------------|
| outputs | | | | |
| (14) | CHARACTER | 1 | LUCSCRET | RESULT OF COMMITTED |
| | 1... .. | | LUCSCFGT | FORGET received |
| | .1.. .. | | LUCSCNVL | Invalid response received |
| | ..1. | | LUCSCHM | HM Received |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------|-------------------------|
| 1 | HEX | 01 | LUCALLOC | ALLOCATE REQUEST |
| 1 | HEX | 02 | LUCTSIG | TEST-SIGNAL request |
| 1 | HEX | 03 | LUCXTP | EXTRACT PROCESS REQUEST |
| 1 | HEX | 05 | LUCFREE | FREE REQUEST |
| 1 | HEX | 06 | LUCIABN | ISSUE ABEND REQUEST |
| 1 | HEX | 07 | LUCIATT | ISSUE ATTACH REQUEST |
| 1 | HEX | 08 | LUCICON | ISSUE CONFIRMATION REQ |
| 1 | HEX | 09 | LUCIERR | ISSUE ERROR REQUEST |
| 1 | HEX | 0A | LUCISIG | ISSUE SIGNAL REQUEST |
| 1 | HEX | 0B | LUCRECV | RECEIVE REQUEST |
| 1 | HEX | 0C | LUCSEND | SEND REQUEST |
| 1 | HEX | 0D | LUCWAIT | WAIT REQUEST |
| 1 | HEX | 10 | LUCFRST | FREE STORAGE REQUEST |
| 1 | HEX | 11 | LUCICAL | INITIAL CALL REQUEST |
| 1 | HEX | 12 | LUCPRVAL | ALLOCATE-PRIV REQUEST |
| 1 | HEX | 13 | LUCPREP | SYNC PREPARE REQUEST |
| 1 | HEX | 14 | LUCRQCM | SYNC REQUEST COMMIT REQ |
| 1 | HEX | 15 | LUCMTD | SYNC COMMITTED REQUEST |
| 1 | HEX | 16 | LUCFGET | SYNC FORGET REQUEST |
| 1 | HEX | 18 | LUCGLUN | Get LUNAME request |
| 1 | HEX | 19 | LUCRBCK | SYNC ROLLBACK REQUEST |
| 1 | HEX | 1A | LUCSFMH | SEND FMH request |
| 1 | HEX | 1B | LUCRFMH | RECEIVE-FMH REQUEST |
| 1 | HEX | 1C | LUCUNBDC | UNBIND-CLEANUP request |
| 1 | HEX | 1D | LUCISPRE | ISSUE-PREPARE request |
| 1 | HEX | 20 | LUCRERP | ERP FMH RECEIVED |
| 1 | HEX | 21 | LUCRNEG | NEG RESP RECEIVED |
| 1 | HEX | 22 | LUC LSDST | CLSDST call |
| 1 | HEX | 23 | LUCPRGSD | PURGE-SEND call |

The following constants define the values of the Major Error byte LUCRCOD1:

| | | | | |
|--|-----|----|----------|---------------|
| 1 | HEX | 01 | LUCESYSI | SYSID error |
| <p>The following values of LUCRCOD2 qualify this value of LUCRCOD1: '08'X SYSID is out of service This is further qualified by the following values of LUCRCOD3: '00'X Local queueing was not attempted '04'X Local queueing did not succeed '0C'X SYSID is not known in TCT This is further qualified by the following values of LUCRCOD3: '00'X SYSID name is not known '04'X SYSID name is not that of a TCTSE '08'X SYSID.MODENAME is not known '0C'X SYSID.PROFILE is not known</p> | | | | |
| 1 | HEX | 02 | LUCEYSYB | SYSBUSY error |
| 1 | HEX | 03 | LUCEINVR | INVREQ ERROR |

The following values of LUCRCOD2 qualify this value of LUCRCOD1: '00'X Session is not defined as LU6.2 '04'X Conervation level is wrong '08'X State error '0C'X Synclevel cannot be supported '0D'X Negative receive length (LUCTAREL) '10'X LL count error '11'X LL is invalid '12'X LL is incomplete '14'X Invalid request '18'X TPN send check failed '24'X Invalid request to ISSUE PREPARE

Equates for LUCRCOD2 qualifiers documented above

| | | | | |
|---|-----|----|----------|-------------------------|
| 1 | HEX | 00 | LUCERC00 | |
| 1 | HEX | 01 | LUCERC01 | |
| 1 | HEX | 02 | LUCERC02 | |
| 1 | HEX | 03 | LUCERC03 | |
| 1 | HEX | 04 | LUCERC04 | |
| 1 | HEX | 05 | LUCERC05 | |
| 1 | HEX | 06 | LUCERC06 | |
| 1 | HEX | 08 | LUCERC08 | |
| 1 | HEX | 0C | LUCERC0C | |
| 1 | HEX | 0D | LUCERC0D | Negative receive length |
| 1 | HEX | 10 | LUCERC10 | |
| 1 | HEX | 14 | LUCERC14 | |

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|----------------------------|
| 1 | HEX | 18 | LUCERC18 | |
| 1 | HEX | 1C | LUCERC1C | |
| 1 | HEX | 20 | LUCERC20 | |
| 1 | HEX | 24 | LUCERC24 | |
| 1 | HEX | 04 | LUCENTAL | NOTALLOC error |
| 1 | HEX | 05 | LUCELENG | LENGERR ERROR |
| 1 | HEX | 06 | LUCEPROF | PROFILE not found |
| 1 | HEX | 11 | LUCERLLE | Invalid LL |
| 1 | HEX | 12 | LUCERLLI | Incomplete LL |
| Constant values for LUCRQCON (also used for LUCEPCON) | | | | |
| 1 | HEX | 00 | LUCUNMP | CONVTYPE IS UNMAPPED (GDS) |
| 1 | HEX | 01 | LUCMAPD | CONVTYPE IS MAPPED (ELM) |
| Constant values for LUCRQSYN (also used for LUCEPSYN) | | | | |
| 1 | HEX | 00 | LUCSYNC0 | SYNCLEVEL 0 (NOSYNC) |
| 1 | HEX | 01 | LUCSYNC1 | SYNCLEVEL 1 (CONFIRM) |
| 1 | HEX | 02 | LUCSYNC2 | SYNCLEVEL 2 (SYNCP) |
| Define the length of the control block | | | | |
| 4 | DECIMAL | 112 | LUCLSTG | |

LUM Parameter list

CONTROL BLOCK NAME = DFHLUMPS
 DESCRIPTIVE NAME = CICS DFHLUCM Parameter List
 FUNCTION =
 Contains the request and response for modules called by the DFHLUCM macro.
 When the DFHLUCM macro is used to invoke a LU6.2 migration request, appropriate fields in the parameter list are set, and module DFHZARM is invoked.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 The control block is located in the LIFO storage of the module which issues the DFHLUCM macro.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 16 | DFHLUMDS | |
| MAJOR AND MINOR REQUEST BYTES | | | | |
| (0) | BITSTRING | 1 | LUMOPN0 | MAJOR REQUEST BYTE |
| (1) | BITSTRING | 1 | LUMOPN1 | MINOR REQUEST BYTE 1 |
| (2) | BITSTRING | 1 | LUMOPN2 | MINOR REQUEST BYTE 2 |
| (3) | BITSTRING | 1 | LUMOPN3 | MINOR REQUEST BYTE 3 |
| OTHER DEFINITIONS | | | | |
| (4) | ADDRESS | 4 | LUMTTERQ | ADDRESS OF TCTTE FOR THE CURRENT REQUEST |
| (8) | CHARACTER | 4 | LUMCDRCD | ERROR CODE, IF ANY, THAT HAS OCCURRED |
| (C) | CHARACTER | 4 | LUMPARMS | OVERLAY FOR ADDITIONAL PARAMETERS WHERE NEEDED |
| (C) | CHARACTER | 2 | LUMGDSID | GDS ID THAT IS EITHER UNKNOWN OR UNSUPPORTED |
| (E) | CHARACTER | 2 | * | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|---------|--------------------|
| 1 | HEX | 01 | LUMSEND | SEND REQUEST |
| 1 | HEX | 02 | LUMWAIT | WAIT REQUEST |
| 1 | HEX | 03 | LUMRECV | RECEIVE REQUEST |
| 1 | HEX | 04 | LUMSIGN | SIGNAL REQUEST |
| 1 | HEX | 06 | LUMFREE | FREE REQUEST |
| 1 | HEX | 07 | LUMBDID | INVALID ID REQUEST |
| 1 | HEX | 08 | LUMRSET | RESET REQUEST |

LUSDS Zcp LU services manager parameter

CONTROL BLOCK NAME = DFHLUSPS
DESCRIPTIVE NAME = CICS (ZCP) LU services manager parameter list.

FUNCTION =

This control block is used to pass parameter information to the LU services manager.

Note that the PLX version of this control block differs somewhat from the assembler version:

1. The assembler version is prefixed by two halfwords which are used by DFHIC GET/PUT. Users of the PLX version are expected to manage define that extra storage themselves. This apparent snag is balanced by the fact that the PLX version is more useful for command level usage, where the length is logically separated from the data
2. The assembler version does not define the DCE signoff structure, since no assembler code uses it

LIFETIME =

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

CONTROL BLOCKS =

GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|-----------------------------|
| (0) | STRUCTURE | * | DFHLUSPS | |
| (0) | CHARACTER | 20 | LUS_PV_PARM_LIST | 2@L4D |
| (0) | BITSTRING | 1 | LUSTYPE | CALL TYPE |
| (1) | BITSTRING | 1 | * | Reserved |
| (2) | HALFWORD | 2 | LUSUSERL | USERID II(SIGNOFF) |
| (4) | CHARACTER | 4 | LUSNSYS | SYSID NAME |
| (8) | CHARACTER | 8 | LUSUSER | USERID (SIGNOFF) |
| (10) | ADDRESS | 4 | LUSURDA | A(URD) |
| (0) | CHARACTER | * | LUS_DCE_PARM_LIST | |
| (0) | CHARACTER | 4 | LUS_IDENTIFIER | identifies the data |
| (4) | UNSIGNED | 1 | LUS_ITEM_COUNT | number of UUIDs |
| (5) | CHARACTER | 54 | UUID_ENTRIES (*) | |
| (5) | UNSIGNED | 1 | LUS_TABLE_FLAG | LOFT or LOTT table |
| (6) | CHARACTER | 4 | LUS_CONNECTION | connection id |
| (A) | CHARACTER | 16 | LUS_CURRENT_UUID | Current uuid |
| (1A) | CHARACTER | 32 | LUS_PARTNER_UUIDS | |
| (3A) | UNSIGNED | 1 | LUS_MECHANISM_ID | Partners uuids mechanism |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|-------------|
| 1 | HEX | 05 | LUSRSYNC | RESYNC |
| 1 | HEX | 06 | LUSOFF | SIGNOFF |
| 1 | HEX | 07 | LUSTOUT | TIMEOUT |

The following constant defines the values of LUS_IDENTIFIER

| | | | |
|---|-----------|------|---------|
| 4 | CHARACTER | *DCE | LUS_DCE |
|---|-----------|------|---------|

The following constants define the values of LUS_TABLE_FLAG

| | | | |
|---|-----|----|--------------------|
| 1 | HEX | 01 | LUS_SIGNED_ON_TO |
| 1 | HEX | 02 | LUS_SIGNED_ON_FROM |

The following constant defines the values of LUS_MECHANISM_ID0

| | | | |
|---|-----|----|----------------|
| 1 | HEX | 01 | LUS_DCE_TICKET |
|---|-----|----|----------------|

MAP BMS map object DSECT

MODULE NAME = DFHMAPDS
 DESCRIPTIVE NAME = CICS/ESA BMS MAP OBJECT DSECT
 DUAL LANGUAGE DSECT
 FUNCTION = DUAL LANGUAGE DSECT FOR THE BMS MAP OBJECT. CONTAINS
 SEPARATE SECTIONS FOR THE MAPSET HEADER, THE TAB MAP,
 THE MAP HEADER, THE MAPNAME ALIAS EXTENSION AREA, AND
 THE FIELD SPECIFICATION.
 THE MAP OBJECT IS BUILT BY THE MAP DEFINITION MACROS
 ON ASSEMBLING A MAP SPECIFYING SYSPARM=MAP. IT IS
 STORED IN THE PROGRAM LIBRARY WITH A PPT ENTRY. IT IS
 LOADED INTO MAIN MEMORY BY DFHMCP.
 THE MAP OBJECT IS REFERENCED BY BMS MODULES.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = Control Block
 EXTERNAL REFERENCES = NONE
 MACROS = NONE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 12 | DFHMAPDS | DUMMY SECTION - MAP DESCRIPTION |
| MAP SET SPECIFICATIONS | | | | |
| (0) | CHARACTER | 8 | BMSNAME | MAP SET NAME |
| (8) | UNSIGNED | 1 | BMSTRL | PAGE OVERFLOW TRAILER LENGTH |
| (9) | CHARACTER | 1 | * | RESERVED |
| (A) | CHARACTER | 2 | BMSDELDM | DEFAULT LDC MNEMONIC |
| (C) | CHARACTER | | BMSMSHEA | MAP SET HEADER ENDING ADDRESS |

TAB FORMAT MAP SPECIFICATIONS

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 18 | BMSTABM | |
| FIELDS ARE SEQUENCE SENSITIVE WITH NORMAL MAP | | | | |
| (0) | CHARACTER | 1 | BMSMTI | MAP TYPE INDICATOR |
| (1) | CHARACTER | 3 | * | RESERVED |
| (4) | BITSTRING | 1 | BMSTFMI | TAB MAP INDICATOR |
| | 1... .. | | * | |
| | .1.. .. | | BMSTFMV | VERTICAL TAB MAP |
| | ..1. | | BMSTFMH | HORIZONTAL TAB MAP |
| (5) | CHARACTER | 3 | * | RESERVED |
| (8) | CHARACTER | 8 | BMSTFN | TAB MAP NAME |
| (10) | HALFWORD | 2 | BMSTFL | TAB MAP LENGTH |
| (12) | CHARACTER | | BMSTFEA | ENDING ADDRESS |

MAP SPECIFICATIONS

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 79 | BMSMAPH | |
| FIELDS ARE SEQUENCE SENSITIVE WITH TAB FORMAT MAP | | | | |
| (0) | HALFWORD | 2 | BMSMHLL | MAP HEADER LENGTH 0 FOR PRE1.7 MAPS X'8100' FOR TAB MAPS |
| (0) | CHARACTER | 1 | BMSMT | MAP TYPE CODE |
| (1) | CHARACTER | 1 | * | RESERVED |
| (2) | CHARACTER | 2 | BMSIPR | NAME OF INPUT PARTITION |
| (4) | ADDRESS | 4 | BMSMDA | MAP DATA ADDRESS |
| (4) | CHARACTER | 2 | BMSOPR | NAME OF OUTPUT PARTITION |
| (6) | CHARACTER | 2 | BMSAPR | NAME OF ACTIVE PARTITION |
| (8) | CHARACTER | 8 | BMSMNAME | MAP NAME |
| (10) | HALFWORD | 2 | BMSMS | MAP LENGTH, INCLUDING ANY MAP HEADER EXTENSION AREA |
| (12) | HALFWORD | 2 | BMSMSSL | IF BMSMODE(BMSMHEXT) IS SET ON THEN THIS IS THE OFFSET OF THE MAP HEADER EXTENSION AREA FROM THE START OF THE MAP HEADER. ON ENTRY TO DFHML1 IT HOLDS (NUMBER OF FIELDS)*10 AND DFHML1 USES THIS FIGURE OTHERWISE IT IS IGNORED |
| (14) | HALFWORD | 2 | BMSMSI | INPUT WORK AREA LENGTH |
| (16) | HALFWORD | 2 | BMSMSO | OUTPUT WORK AREA LENGTH |
| (18) | CHARACTER | 1 | BMSMODE | MAP DESCRIPTOR FLAG BYTE |
| | 1... .. | | BMSMODO | MODE = OUT |
| | .1... .. | | BMSMODI | MODE = IN |
| | ..1. | | BMSMHEXT | THIS MAP OR MAP COPY HAS A MAP HEADER EXTENSION AREA |
| | ...1 | | * | |
| | 1... | | BMSMODOF | THIS MAP ELIGIBLE FOR OUTBOARD FORMATING, IF ON AT ASSEMBLY TIME. IF ON IN M32 - MAP IS USED FOR OUTBOARD FORMAT |
| |1.. | | BMSMODOR | THIS MAP (COPY) WHICH IS USED WITH AN OUTBOARD FORMAT HAS BEEN RELOCATED BY PBP. SET BY PBP, TESTED BY M32 |
| |1. | | BMSMODTC | THIS MAP (COPY) ALSO CONTAINS A TIOA COPY |
| |1 | | BMSDATB | DATA = BLOCK |
| (19) | CHARACTER | 1 | BMSWCC | 3270 WRITE CONTROL CHARACTER |
| (1A) | HALFWORD | 2 | BMSCURSR | 3270 CURSOR POSITION |
| (1C) | CHARACTER | 1 | BMSMARG | MAP MARGIN |
| | 1... .. | | * | |
| | .1... .. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | BMSMARBG | JUSTIFY = BOTTOM |
| |1.. | | BMSMARGR | JUSTIFY = RIGHT |
| |1. | | BMSMARGL | JUSTIFY = LAST |
| |1 | | BMSMARGF | JUSTIFY = FIRST |
| (1D) | UNSIGNED | 1 | BMSML | MAP LENGTH - NUMBER OF LINES |
| (1E) | UNSIGNED | 1 | BMSMW | MAP WIDTH - NUMBER OF COLUMNS |
| (1F) | UNSIGNED | 1 | BMSMSL | MAP STARTING LINE NUMBER |
| (20) | UNSIGNED | 1 | BMSMSC | MAP STARTING COLUMN NUMBER |
| (21) | CHARACTER | 1 | BMSMI | MAP INDICATORS |
| | 1... .. | | BMSMIXM | EXTENDED ATTRS IN MAP |
| | .1... .. | | BMSMIXD | EXTENDED ATTRS IN APPLICATION STRUCTURE |
| | ..1. | | BMSMIAL | 1 = ALIGNED MAP, 0 =UNALIGNED MAP |
| | ...1 | | BMSMI16 | MAP ASSEMBLED AT CICS/V5 1.6 OR LATER |
| | 1... | | BMSMICL | CURSOR IN FIELD IND REQD * |
| |1.. | | BMSMIH | HEADER MAP |
| |1. | | BMSMIT | TRAILER MAP |
| |1 | | BMSMIS | FIELDS ARE NOT IN SEQUENCE |
| (22) | CHARACTER | 1 | BMSMSTR2 | TYPE REQUEST BYTE TWO FROM TCA |
| (23) | CHARACTER | 1 | BMSMSTR3 | TYPE REQUEST BYTE THREE FROM TCA |
| | 1... .. | | * | |
| | .1... .. | | * | |
| | ..1. | | BMSMASHON | HONEOM REQD ON O/P MAPPING * (EXEC I/F ONLY) |
| | ...1 | | * | |
| | 1... | | BMSMSTC | CURSOR = NUMBER |
| |1. | | BMSMSTCW | CTRL = ANY 3270 WCC |
| (24) | CHARACTER | 1 | BMSMSTR4 | TYPE REQUEST BYTE FOUR FROM TCA |
| | 1... .. | | * | |
| | .1... .. | | BMSMSTDN | DATA = NO |
| | ..1. | | BMSMSTRS | TYPE = SAVE |
| | ...1 | | * | |
| | 1... | | * | |
| |1. | | BMSMSTRM | TYPE = MAP |
| |1 | | BMSMSTRE | TYPE = ERASE |
| |1 | | BMSMSTRI | TYPE = IN |
| (25) | CHARACTER | 1 | BMSMSTR5 | TYPE REQUEST BYTE FIVE FROM TCA |
| | 1... .. | | BMSMSTRB | TYPE = PAGEBLD |
| | .1... .. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1. | | BMSMSTRO | TYPE = OUT |
| (26) | HALFWORD | 2 | BMSMSCP | CURSOR POSITION FROM TCA |
| (26) | HALFWORD | 2 | BMSDESCO | offset of ADS descriptor in loaded mapset, if present |
| (28) | CHARACTER | 1 | BMSMSWCC | WRITE CONTROL CHARACTERS FROM TCA |
| (29) | UNSIGNED | 1 | BMSATNO | FOR EXTENDED FORMAT MAPS, THE NUMBER OF BYTES IN BMSMATTS AND BMSDATTS =12 FOR RELEASE 1.7 |
| (29) | CHARACTER | 1 | BMSMI2 | MAP INDICATOR EXTENSION |
| | 1... .. | | BMSMI2RM | KANJI EXTENDED ATTRS IN MAP * |
| | .1... .. | | BMSMI2RD | KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE |
| (2A) | CHARACTER | | BMSMSEA | MAP SPECIFICATION ENDING ADDRESS FOR PRE1.7 MAPS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| EXTENDED FORMAT MAPS FOLLOWING FIELDS ARE ADDED FOR CICS R1.7 MAPS ASSEMBLED IN R170 AND AFTER WILL CONTAINS THESE FIELDS IN THE MAP HEADER | | | | |
| (2A) | ADDRESS | 4 | BMSMCA | MAP CHAIN ADDRESS |
| (2E) | HALFWORD | 2 | BMSMAL | LENGTH OF ATTRIBUTES IN FIELD IN MAP |
| (30) | HALFWORD | 2 | BMSDAL | LENGTH OF ATTRIBUTES IN FIELD IN DATA STRUCTURE * |
| (32) | CHARACTER | 12 | BMSMATTS | MASK FOR ATTRIBUTES IN MAP FIELD: 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD * |
| (3E) | CHARACTER | 12 | BMSDATTS | MASK FOR ATTRIBUTES IN DATA STRUCTURE FIELD 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD * |
| (4A) | UNSIGNED | 1 | BMSFLDSL | LENGTH OF FIELD SEPARATOR 0 IF NOT SPECIFIED |
| (4B) | CHARACTER | 4 | BMSFLDSP | FIELD SEPARATOR UP TO FOUR CHARACTERS |
| (4F) | CHARACTER | | BMSXMSEA | MAP SPECIFICATION ENDING ADDRESS FOR EXTENDED FORMAT MAPS |

FIELD SPECIFICATIONS

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|--------------|---|
| (0) | STRUCTURE | 12 | BMSFLD | |
| (0) | CHARACTER | 8 | BMSFSL | FIELD SPEC NO EXTATT |
| (0) | HALFWORD | 2 | BMSFPP | FIELD PAGE POSITION |
| (0) | UNSIGNED | 1 | BMSFPP_BYTE1 | FIELD PAGE BYTE1 |
| (1) | UNSIGNED | 1 | BMSFPP_BYTE2 | FIELD PAGE BYTE2 |
| (2) | HALFWORD | 2 | BMSFL | FIELD LENGTH |
| (4) | CHARACTER | 1 | BMSFDFB | FIELD DESCRIPTOR FLAG BYTE |
| | 1... .. | | BMSFDCM | CASE = MIXED |
| | .1. | | BMSFDGFE | GROUP FIELD ENTRY |
| | ..1. | | BMSFDGFD | GROUP FIELD DESCRIPTOR |
| | ...1 | | BMSFDPDA | ATTRB = DET |
| | 1... | | BMSFDJZ | JUSTIFY = ZERO |
| |1.. | | BMSFDJR | JUSTIFY = RIGHT |
| |1. | | BMSFDD | INITIAL = ANY USER INFORMATION |
| |1 | | BMSFDNF | DSECT ENTRY EXISTS |
| (5) | CHARACTER | 1 | BMSFA | FIELD ATTRIBUTE |
| (6) | HALFWORD | 2 | BMSFP | FIELD POSITION |
| (8) | CHARACTER | | BMSFEA | FIELD ENDING ADDRESS |
| (8) | CHARACTER | 4 | BMSXATTR | EXTENDED ATTRIBUTES |
| (8) | CHARACTER | 1 | BMSFXC | FIELD COLOR ATTRIBUTE |
| (9) | CHARACTER | 1 | BMSFXP | FIELD PSS ATTRIBUTE |
| (A) | CHARACTER | 1 | BMSFXH | FIELD HIGHLIGHT ATTRIBUTE |
| (B) | CHARACTER | 1 | BMSFXV | FIELD VALIDATION ATTRIBUTE |
| (C) | CHARACTER | | BMSFEAL | FIELD END ADDRESS IF EXTENDED ATTRIBUTES INCLUDED |

ALIAS EXTENSION AREA

THIS IS THE FIRST USE OF A MAP HEADER EXTENSION AREA. THIS FOLLOWS THE LAST FIELD IN A MAP, AND IS POINTED TO BY BMSMSS THE FLAG BMSMODE(BMSMHEXT) IS SET ON IF THIS AREA IS PRESENT THIS AREA CONTAINS A NUMBER OF EXTENSION RECORDS, EACH HEADED BY ONE BYTE LENGTH AND TYPE FIELDS. IT IS THUS EXTENDABLE. NOTE HOWEVER THAT THE CICS/VS 1.5 OBF CODE DOES NOT TEST THE EXTENSION RECORD TYPE AND LENGTH. ANY FURTHER USE OF THIS MAY REQUIRE REWORK OF THE OBF SUPPORT IN PBP AND M32. THE MAP ALIAS EXTENSION RECORD IS USED FOR PASSING THE NAMES OF OUTBOARD MAP-GROUP AND OUTBOARD FORMAT TO M32

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 19 | BMSALIAS | |
| (0) | UNSIGNED | 1 | BMSALLNG | LENGTH OF ALIAS EXTENSION |
| (1) | CHARACTER | 1 | BMSALTYP | TYPE CODE FOR ALIAS EXTENSION |
| | 1... .. | | * | |
| | .1. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (2) | CHARACTER | 8 | BMSALTEQ | ALIAS EXTENSION TYPE CODE |
| (A) | CHARACTER | 8 | BMSOGNME | OUTBOARD MAP-GROUP NAME |
| (A) | CHARACTER | 8 | BMSOFNME | OUTBOARD FORMAT NAME |
| (12) | CHARACTER | 1 | BMSOFFLG | FLAG BYTE |
| | 1... .. | | * | |
| | .1. | | * | |
| | ..1. | | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--|
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| (13) | CHARACTER | | BMSOFMGS BMSALEND | MAP-GROUP NAME SUFFIXED END OF ALIAS EXTENSION AREA |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|--------------------|
| 1 | HEX | 81 | BMSMTF | INDICATING TAB MAP |
| 1 | HEX | C0 | BMSMODIO | MODE = INOUT |
| 1 | HEX | FF | BMSMSLN | LINE = NEXT |
| 1 | HEX | FE | BMSMSLS | LINE = SAME |
| 1 | HEX | FF | BMSMSCN | COLUMN = NEXT |
| 1 | HEX | FE | BMSMSCS | COLUMN = SAME |
| 1 | HEX | C0 | BMSMSTDY | DATA = YES |

MBCA Transient data buffer control

MODULE NAME = DFHMBCPS
 DESCRIPTIVE NAME = Transient Data Buffer Control
 CICS/ESA AP Domain

FUNCTION =
 Copybook DFHMBCPS provides structures, DFHMBCA and DFHMBCB and DFHMQCB.
 DFHMBCA describes the Buffer Common Area (MBCA), only one MBCA is allocated.
 DFHMBCB describes the Buffer Control Block (MBCB), one MBCB is allocated for each I/O buffer.
 DFHMQCB describes the Queue Control Block (MQCB), one MQCB is allocated for each I/O buffer. MQCBs are used to optimize the search for I/O buffers containing records for a given queue.

LIFETIME =
 The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =
 The control blocks are located in storage allocated from the DFHTDG31 subpool.
 The I/O buffers, if required, are located in storage allocated from the DFHTDIOB subpool.
 Note that the number of I/O buffers is defined as a SIT parameter / override.
 Note also that the number of I/O buffers allocated may exceed the number requests where this does not cause further pages to be allocated.

LOCATION =
 The MBCA is located from the TDST.
 MBCBs are located on one of three bi-directional chains whose anchors are located in the MBCA
 1. unallocated, I/O buffer is (logically) empty
 2. unallocated, I/O buffer contains valid data
 3. allocated, I/O buffer is (logically) modified
 MQCBs are located on one of many bi-directional chains
 1. anchor located in the MBCA when the associated MBCB is on chain 1
 2. anchor located in the relevant DCTE when the associated MBCB is on chain 2 or chain 3.
 Each MQCB may be located from its associated MBCB and vice versa.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 MULTIPLE BUFFERS - BUFFER COMMON AREA (MBCA)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | 112 | DFHMBCA | |
| (0) | CHARACTER | 16 | MBCA_PREFIX | prefix |
| (0) | HALFWORD | 2 | MBCA_LENGTH | - length |
| (2) | CHARACTER | 1 | MBCA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MBCA_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MBCA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MBCA_BLOCK | - value - 'MBCA ' |
| (10) | CHARACTER | 4 | * | MBCA STATUS |
| (10) | CHARACTER | 1 | MBCAFLG0 | - I/O BUFFERS |
| | | | MBCABFAL | - ALLOCATED |
| | | | MBCABFRQ | - REQUIRED |
| | | | * | - Reserved |
| (11) | CHARACTER | 1 | MBCAFLG1 | - Reserved |
| (11) | BITSTRING | 1 | * | - Reserved |
| (12) | CHARACTER | 1 | MBCAFLG2 | - Reserved |
| (12) | BITSTRING | 1 | * | - Reserved |
| (13) | CHARACTER | 1 | MBCAFLG3 | - Reserved |
| (13) | BITSTRING | 1 | * | - Reserved |
| (14) | CHARACTER | 12 | * | I/O BUFFERS |
| (14) | FULLWORD | 4 | MBCANBFR | - #(BUFFERS REQUESTED) |
| (18) | FULLWORD | 4 | MBCANBFA | - #(BUFFERS ALLOCATED) |
| (1C) | FULLWORD | 4 | MBCABFSZ | - L(EACH BUFFER) |
| (20) | CHARACTER | 32 | * | MBCB CHAIN ANCHORS |
| (20) | CHARACTER | 8 | MBCACHN1 | - UNALLOC/EMPTY CHAIN |
| (20) | ADDRESS | 4 | MBCAFCN1 | - A(FIRST MBCB) |
| (24) | ADDRESS | 4 | MBCABCN1 | - A(LAST MBCB) |
| (28) | CHARACTER | 8 | MBCACHN2 | - UNALLOC/VALID CHAIN |
| (28) | ADDRESS | 4 | MBCAFCN2 | - A(FIRST MBCB) |
| (2C) | ADDRESS | 4 | MBCABCN2 | - A(LAST MBCB) |
| (30) | CHARACTER | 8 | MBCACHN3 | - ALLOCATED CHAIN |
| (30) | ADDRESS | 4 | MBCAFCN3 | - A(FIRST MBCB) |
| (34) | ADDRESS | 4 | MBCABCN3 | - A(LAST MBCB) |
| (38) | CHARACTER | 8 | MBCACHNS | - STATIC CHAIN |
| (38) | ADDRESS | 4 | MBCAFCNS | - A(FIRST MBCB) |
| (3C) | ADDRESS | 4 | * | - Reserved |
| (40) | CHARACTER | 8 | * | MQCB CHAIN ANCHORS |
| (40) | CHARACTER | 8 | MBCACHNQ | - QUEUE INDEPENDENT CHAIN |
| (40) | ADDRESS | 4 | MBCAFCNQ | - A(FIRST MQCB) |
| (44) | ADDRESS | 4 | MBCABCNQ | - A(LAST MQCB) |
| (48) | CHARACTER | 8 | MBCA_SRC | MBCB allocation chain |
| (48) | ADDRESS | 4 | MBCA_TCA_P | - A(owning TCA) or 0 |
| (4C) | ADDRESS | 4 | MBCA_MWCB_P | - A(first MWCB) or 0 |
| (50) | CHARACTER | 32 | * | MBCB STATISTICS |
| (50) | CHARACTER | 12 | * | - ALLOCATION REQUESTS |
| (50) | FULLWORD | 4 | MBCATNAL | - TOTAL |
| (54) | FULLWORD | 4 | MBCACNAL | - CURRENT CONCURRENT |
| (58) | FULLWORD | 4 | MBCAMXAL | - MAXIMUM CONCURRENT |
| (5C) | CHARACTER | 12 | * | - QUEUED REQUESTS |
| (5C) | FULLWORD | 4 | MBCATNWT | - TOTAL |
| (60) | FULLWORD | 4 | MBCACNWT | - CURRENT CONCURRENT |
| (64) | FULLWORD | 4 | MBCAMXWT | - MAXIMUM CONCURRENT |
| (68) | CHARACTER | 8 | * | - # CONTAINING VALID DATA |
| (68) | FULLWORD | 4 | MBCACNIU | - CURRENT |
| (6C) | FULLWORD | 4 | MBCAMXIU | - MAXIMUM |
| (70) | CHARACTER | | * | |

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 56 | DFHMBCB | |
| (0) | CHARACTER | 12 | * | MBCB CHAINS |
| (0) | CHARACTER | 8 | * | - STATUS SPECIFIC CHAIN |
| (0) | ADDRESS | 4 | MBCBFCHN | - A(NEXT MBCB) |
| (4) | ADDRESS | 4 | MBCBBCHN | - A(PREVIOUS MBCB) |
| (8) | CHARACTER | 4 | * | - STATIC CHAIN |
| (8) | ADDRESS | 4 | MBCBSCHN | - A(NEXT MBCB) OR 0 |
| (C) | CHARACTER | 4 | * | I/O BUFFER STATUS |
| (C) | CHARACTER | 1 | MBCBFLG0 | - ALLOCATION |
| | | | MBCBLCKD | - PREEMPTED |
| | | | * | - Reserved |
| (D) | CHARACTER | 1 | MBCBFLG1 | - CONTENTS |
| | | | MBCBVALD | - VALID |
| | | | * | - Reserved |
| (E) | CHARACTER | 1 | MBCBFLG2 | - ACTIONS |
| | | | MBCBPTRQ | - WRITE |
| | | | MBCBGTRQ | - READ |
| | | | * | - Reserved |
| (F) | CHARACTER | 1 | MBCBFLG3 | - Reserved |
| (F) | BITSTRING | 1 | * | - Reserved |
| (10) | CHARACTER | 24 | * | I/O BUFFER PARAMETERS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|---------------------------|
| (10) | CHARACTER | 12 | * | - LOCATION, DEFINED BY |
| (10) | ADDRESS | 4 | MBCBABFR | - A(I/O BUFFER) |
| (14) | FULLWORD | 4 | MBCBLBFR | - L(I/O BUFFER) |
| (18) | ADDRESS | 4 | MBCBACDF | - A(CIDF) |
| (1C) | CHARACTER | 8 | * | - CONTENTS, DEFINED BY |
| (1C) | FULLWORD | 4 | MBCBCRBA | - RBA(CI) |
| (20) | ADDRESS | 4 | MBCBMRCA | - A(MRCA) |
| (24) | ADDRESS | 4 | MBCB_DCTE_P | - A(DCTE) or 0 |
| (28) | CHARACTER | 8 | * | associated control blocks |
| (28) | ADDRESS | 4 | MBCB_MQCB_P | - A(MQCB) |
| (2C) | ADDRESS | 4 | MBCB_MRCA_P | - A(MRCA) or 0 |
| (30) | CHARACTER | 8 | MBCB_SRC | MBCB preemption chain |
| (30) | ADDRESS | 4 | MBCB_TCA_P | - A(owning TCA) or 0 |
| (34) | ADDRESS | 4 | MBCB_MWCB_P | - A(first MWCB) or 0 |
| (38) | CHARACTER | | * | |

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | 16 | DFHMQCB | |
| (0) | CHARACTER | 8 | * | QUEUE SPECIFIC CHAIN |
| (0) | ADDRESS | 4 | MQCBFCHN | - A(NEXT MQCB) |
| (4) | ADDRESS | 4 | MQCBBCHN | - A(PREVIOUS MQCB) |
| (8) | CHARACTER | 8 | * | associated control blocks |
| (8) | ADDRESS | 4 | MQCB_MBCB_P | - A(MBCB) |
| (C) | CHARACTER | 4 | * | - Reserved |
| (10) | CHARACTER | | * | |

MCA Map control area description

MODULE NAME = DFHMCAD
 DESCRIPTIVE NAME = CICS MAP CONTROL AREA DESCRIPTION
 FUNCTION = DESCRIBE MAP CONTROL AREA FOR SETTING UP BMS OUTPUT
 DATA STREAM FOR 3270 OR LU1 SCS PRINTER DEVICE

This area contains information pertinent to one of the maps being used in a page build process for a 3270 or LU1 SCS printer device.

The Map Control Areas for one page of data are maintained on a chain which is anchored in field TTPMMFCP contained in the current TTP. The chain is maintained in order by the field position of the next field to be processed in each map. The last Map Control Area in the chain is always a dummy MCA containing only a zero chain address and a maximum possible field position. Each MCA contains copies of those fields of the map header which are required to build the data stream. All the Map Control

Areas for one page of data are contained in one area of storage with the first one being the dummy MCA.

EXTERNAL REFERENCES :

NONE

TABLES :

NONE

MACROS :

NONE

METHOD :

USED BY DFHM32 AND DFHML1 TO HOLD INFORMATION ABOUT A SINGLE MAP AND ITS FIELDS.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHMCADS | |
| (0) | CHARACTER | 4 | MCACBID | MCA SELF IDENTIFICATION. SET TO 'MCAD' WHEN AN MCA IS CREATED |
| (4) | ADDRESS | 4 | MCACHAIN | ADDRESS OF NEXT MCA IN CHAIN |
| (8) | HALFWORD | 2 | | RESERVED |
| (A) | HALFWORD | 2 | MCAFPF | PAGE ADDRESS OF CURRENT FIELD (COPY OF BMSFPF) |
| | 11.. | | MCADEL | ""-DFHMCADS" DUMMY MCA LENGTH |
| (C) | ADDRESS | 4 | MCAMAP | ADDRESS OF MAP |
| (10) | ADDRESS | 4 | MCATIOA | ADDRESS OF TIOA |
| (14) | ADDRESS | 4 | MCADEA | ADDRESS OF END OF TIOA |

THE FOLLOWING TWO WORDS ARE ACCESSED VIA LM AND STM INSTRUCTIONS

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (18) | ADDRESS | 4 | MCADATA | CURRENT DATA ADDRESS IN TIOA |
| (1C) | ADDRESS | 4 | MCAFIELD | CURRENT FIELD ADDRESS IN MAP |
| (20) | CHARACTER | 1 | MCAMODE | MAP DESCRIPTOR FLAG BYTE (COPY OF BMSMODE) |
| (21) | CHARACTER | 1 | MCAMSTR4 | TYPE REQUEST BYTE FOUR FROM TCA (COPY OF BMSMSTR4) |
| | .1... .. | | MCAMSTDT | "X'80" DATA CAN BE TAKEN FROM THE TIOA |
| | .1.. .. | | MCAMSTDM | "X'40" DATA CAN BE TAKEN FROM THE MAP |
| (22) | CHARACTER | 1 | MCAMI | MAP INDICATORS (COPY OF BMSMI) |
| (23) | CHARACTER | 1 | MCAMI2 | MAP INDICATORS (COPY OF BMSMI2) |
| (24) | CHARACTER | 1 | | RESERVED |
| (25) | CHARACTER | 1 | MCAFLAG | FLAGS FOR INTERNAL USE |
| | .1... .. | | MCAGMF | "X'80" MF (MODIFY FIELD) TO BE GENERATED RATHER THAN SFE(START FIELD EXTENDED) |
| | .1.. .. | | MCANOSC | "X'40" NO SHIFT OUT / SHIFT IN CHARACTERS ALLOWED IN DATA |
| | ..1. | | MCAMHSA | "X'20" MAP CONTAINS SOSI FIELD ATTRIBUTE |
| (26) | HALFWORD | 2 | MCAMHLL | OFFSET TO FIRST MAP FIELD |
| (28) | HALFWORD | 2 | MCAMAL | NUMBER OF MAT ATTRIBUTES |
| (2A) | HALFWORD | 2 | MCADAL | NUMBER OF ADS ATTRIBUTES |
| (2C) | CHARACTER | 12 | MCATERMM | MAP/TERMINAL MASK |
| (31) | CHARACTER | 1 | MCATERSO | SOSI MASK BYTE |
| (38) | CHARACTER | 12 | MCATERMD | DSECT/TERMINAL MASK |
| (44) | CHARACTER | 13 | MCAMXAT0 (0) | MAP FIELD ATTRIBUTE WORK AREA |
| (44) | CHARACTER | 1 | | THIS BYTE MUST BE ZERO |
| (45) | CHARACTER | 12 | MCAMXAT | COPY OF MAP FIELD ATTRIBUTES |
| (51) | CHARACTER | 13 | MCADXAT0 (0) | ADS FIELD ATTRIBUTE WORK AREA |
| (51) | CHARACTER | 1 | | THIS BYTE MUST BE ZERO |
| (52) | CHARACTER | 12 | MCADXAT | COPY OF ADS FIELD ATTRIBUTES |
| (5E) | HALFWORD | 2 | | RESERVED |

INFORMATION ABOUT MCA EXTENSION, FILLED IN IF THE
 MAP CONTAINS FIELDS NOT IN ORDER OF PAGE POSITION

| | | | | |
|------|-----------|---|------------|-----------------------------------|
| (60) | FULLWORD | 4 | MCANXF | NEXT FIELD TO BE PROCESSED IN EXT |
| (64) | HALFWORD | 2 | MCAEXF | NUMBER OF FIELDS IN EXTENSION |
| (66) | HALFWORD | 2 | MCAEXL | EXTENSION LENGTH |
| (68) | HALFWORD | 2 | MCAEXT (0) | EXTENSION START |
| | .11. 1... | | MCAEL | "*-DFHMCADS" MCA ENTRY LENGTH |

MCA EXTENSION: FORMAT OF FIELD INFORMATION

| | | | | |
|------|----------|---|-------|------------------------------------|
| (68) | HALFWORD | 2 | MCAPP | FIELD POSITION ON PAGE |
| (6A) | ADDRESS | 4 | MCADP | -> FIELD DATA IN TIOA USE ICM |
| (6E) | ADDRESS | 4 | MCAMP | -> FIELD DATA IN MAP DSECT USE ICM |

MCB BMS message control block

MODULE NAME = DFHMCBDS
 DESCRIPTIVE NAME = CICS BMS MESSAGE CONTROL BLOCK
 FUNCTION = DEFINE THE STATE OF A BMS LOGICAL MESSAGE. THIS IS USED BY THE TERMINAL PAGE RETRIEVAL PROGRAM DFHTPR. THERE IS ONE MCB PER LEVEL OF PAGE CHAINING. THE MCBS ARE CHAINED TOGETHER, WITH AN ANCHOR IN THE BMS TCTTE EXTENSION. MCBS ARE ALLOCATED AND FREED BY DFHTPR. THEY RESIDE IN SHARED STORAGE.
 THE MCB HAS SEVERAL PARTS:-
 A) A COMMON PART CONTAINING INFORMATION SUCH AS THE TS QUEUE NAME.
 B) A PART CONTAINING STATUS INFORMATION (E.G. CURRENT PAGE NUMBER) FOR THE CURRENT LDC OR PARTITION.
 C) AN ENTRY FOR EACH LDC OR PARTITION CONTAINING DTSTATUS DATA (E.G. CURRENT PAGE NUMBER, TOTAL PAGE COUNT) FOR THAT LDC OR PARTITION. THIS IS COPIED INTO B) WHEN THE LDC OR PARTITION BECOMES CURRENT.
 D) THE PAGE/LDC TABLE WITH ONE ENTRY PER PAGE OF THE MESSAGE, INDICATING THE LDC OR PARTITION FOR THIS PAGE
 THE MCB IS PARTIALLY BUILT FROM THE MESSAGE CONTROL RECORD (MCR) WHEN THIS IS RETRIEVED FROM TS. OTHER PARTS ARE MAINTAINED BY DFHTPR.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (0) | | | DFHMCB | |
| (0) | FULLWORD | 4 | MCBSAA | SHARED STORAGE ACCOUNTING |
| (4) | FULLWORD | 4 | MCBCOMN (0) | START MCB COMMON CONTROL AREA |
| MCB COMMON CONTROL AREA | | | | |
| (4) | ADDRESS | 4 | MCBNEXT | POINTER TO CHAINED MCB @ |
| FIELDS ABOVE OVERLAP THE BMS TCTTE EXTENSION FOR FINDING THE MCB CHAIN HEADER | | | | |
| (8) | CHARACTER | 8 | MCBCBID | MCB SELF IDENTIFICATION. SET TO 'DFHMCBDS' WHEN MCB CREATED |
| (10) | ADDRESS | 4 | MCBCUREP | A(CURRENTLY ACTIVE REPEATED) |
| (14) | ADDRESS | 4 | MCBCURPG | A(CURRENT PAGING ENTRY) |
| (18) | ADDRESS | 4 | MCBPGLDC | POINTER TO PAGE/LDC TABLE |
| (1C) | ADDRESS | 4 | MCBAPSET | POINTER TO INCORE APPLICATION PARTITION SET |
| (20) | CHARACTER | 12 | MCBMSGID (0) | MESSAGE ID OF LOGICAL MESSAGE |
| (20) | CHARACTER | 8 | MCBTSID (0) | TEMPORARY STORAGE KEY |
| (20) | CHARACTER | 2 | MCBTSPFX | TEMPORARY STORAGE RECOVERY PREFIX |
| (22) | ADDRESS | 1 | MCBTSPKY | BMS IDENTIFIER -'X'FD' |
| (23) | BITSTRING | 3 | MCBUNQID | MESSAGE ID OF THIS MSG |
| (26) | CHARACTER | 1 | MCBTTS | TERMINAL TYPE SUFFIX OF RECEIVING TERMINAL |
| (27) | BITSTRING | 1 | MCBTSQUL | TEMP. STORAGE QUALIFICATION |
| (28) | BITSTRING | 1 | MCBCHN | CHAIN NUMBER OF THIS MESSAGE |
| (29) | BITSTRING | 1 | MCBFLAGS | FLAGS |

NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS --
 XXXTITLE - MESSAGE HAS A TITLE
 XXXWBCUR WTBK=CURR (2741)
 XXXWBALL WTBK=ALL (2741)
 XXXEODOP EODPURG=OPER
 WHERE XXX IS ONE OF MCR OR MCB

| | | |
|-----------|----------|---|
| 1... .. | MCBTITLE | "X'80" ...MESSAGE HAS A TITLE |
| .1. | MCBWBCUR | "X'40" ...WTBRK=CURRENT (2741 ONLY) |
| ..1. | MCWBALL | "X'20" ...WTBRK=ALL (2741 ONLY) |
| ...1 | MCBEODOP | "X'10" ...EODPURG=OPER FOR THIS MESSAGE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| | 1... | | MCBOPCHK | "X'08" ...OPERATOR CHECKING WITH MESSAGE |
| |1.. | | MCBMCRCCK | "X'04" ...MCR HAS BEEN CHECKED |
| |1. | | MCBCURR | "X'02" ...THIS IS CURRENT CHAIN LEVEL |
| |1 | | MCBACT | "X'01" ...THIS MCB IS ACTIVE |
| THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBMSGID' & 'MCBLDCL' | | | | |
| (2A) | HALFWORD | 2 | (0) | |
| (2A) | CHARACTER | 18 | MCBCLDCI (0) | DESTINATION INFORMATION |
| (2A) | HALFWORD | 2 | MCBPAG | PAGE NUMBER CURRENTLY BEING DISPLAYED |
| (2C) | CHARACTER | 2 | MCBCLDCM | CURRENTLY ACTIVE LDC MNEMONIC |
| (2E) | BITSTRING | 1 | MCBCLDCD | CURRENTLY ACTIVE LDC DEVICE CODE |
| (2F) | BITSTRING | 1 | MCBLDCF | CURRENTLY ACTIVE DESTINATION CODE |
| REFER TO 'MCBRLDCF' FOR VALUES | | | | |
| (30) | HALFWORD | 2 | MCBPGCNT | TOTAL NUMBER OF PAGES PER DESTINATION |
| (32) | CHARACTER | 8 | MCBCDSN | CURRENTLY ACTIVE DESTINATION NAME |
| (3A) | BITSTRING | 1 | MCBCDSP | DATA STREAM PROFILE |
| (3C) | HALFWORD | 2 | MCBHCNT | NUMBER OF CHAIN LEVELS 01 CONNECTED TO TERMINAL 01 (FIRST MCB ONLY) |
| (40) | FULLWORD | 4 | (0) | ALIGNMENT |
| (40) | CHARACTER | 2 | MCBCPRTN | NAME OF CURRENT PARTITION |
| (42) | CHARACTER | 1 | MCBCPID | PID OF CURRENT PARTITION |
| (43) | BITSTRING | 3 | | RESERVED |
| (46) | BITSTRING | 1 | MCBIND02 | MCB INDICATOR TWO |
| | 1... | | MCBAPDUN | "X'80" ALL AUTOMATIC PAGING COMPLETE |
| | .1.. | | MCBPNLUN | "X'40" PAGING NOT COMPLETE |
| | ..1. | | MCBFSUN | "X'20" FINAL SCAN COMPLETE |
| | ...1 | | MCBQKPRG | "X'10" MESSAGE ELIGIBLE FOR QUICK PURGE |
| | 1... | | MCBSCSA | "X'08" USE ALTERNATE SCREENSIZE |
| |1.. | | MCBTRAN | "X'04" PAGES INCLUDE EXTRA BYTE FOR TRANSPARENT MODE |
| |1. | | MCBRDPSL | "X'02" REDISPLAY CURRENT PAGE IN EACH PARTITION |
| |1 | | MCBSCHED | "X'01" AID for this MCB has been rescheduled by DFHACP |
| (48) | FULLWORD | 4 | MCBCEND (0) | END COMMON MCB |
| | .1.. 1... | | MCBLEN | "MCBCEND-DFHMCB" LENGTH OF COMMON MCB AREA |
| MCB/LDC REPEATED ENTRY | | | | |
| |1.. | | MCBDRLDC | "4" DEFAULT REPEATED ENTRY COUNT |
| THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI' | | | | |
| | .1.. 1... | | MCBLDCL | "" LDC REPEATED ENTRY LIST |
| (48) | HALFWORD | 2 | MCBRCPAG | CURRENT PAGE NUMBER |
| (4A) | CHARACTER | 2 | MCBRLDCM | LDC MNEMONIC |
| (4C) | BITSTRING | 1 | MCBRLDCD | LOGICAL DEVICE CODE |
| (4D) | BITSTRING | 1 | MCBRLDCF | PAGING STATUS FLAG ONLY |
| | 1... | | MCBPSTAT | "TCTTEPGP" PAGING STATUS |
| | .1.. | | MCBTREV | "TCTTEPGR" PAGING STATUS TEMPORARILY REVERSED. LAST 6 BITS RESERVED |
| (4E) | HALFWORD | 2 | MCBRTPC | TOTAL PAGE COUNT FOR THIS LDC |
| (50) | CHARACTER | 8 | MCBRDSN | DESTINATION NAME |
| (58) | CHARACTER | 1 | MCBRDSP | DATA STREAM PROFILE |
| (5A) | HALFWORD | 2 | (0) | ENSURE ALIGNMENT |
| | .1.1 1.1. | | MCBRLDCE | "" END REPEATED ENTRY |
| | ...1 ..1. | | MCBRLN | "MCBRLDCE-MCBLDCL" LDC REPEATED ENTRY LENGTH |
| (48) | CHARACTER | | MCBLDCLL (0) | DEFINE MCB/LDC LIST |
| MCB'S PG/LDC TABLE | | | | |
| | 1... | | MCBDLDCP | "8" PAGE/LDC TABLE SIZE (NUMBER OF ENTRIES) |
| DEFINE SPACE FOR THE PAGE/LDC TABLE | | | | |
| (90) | CHARACTER | 1 | | "" END OF TABLE |
| | 1.1. | | MCBEXEND | "" END OF TABLE |
| | 1.1. | | MCBEXLEN | "MCBEXEND-DFHMCB" LENGTH OF TABLE |

MCR BMS message control record DSECT

MODULE NAME = DFHMCRDS
 DESCRIPTIVE NAME = CICS BMS MESSAGE CONTROL RECORD DSECT
 FUNCTION = DEFINE THE BMS MESSAGE CONTROL RECORD (MCR). THE MCR
 DEFINES A BMS LOGICAL MESSAGE ON TEMPORARY STORAGE.
 IT IS OUTPUT BY DFHMCP, AND READ/UPDATED BY DFHTPS,
 DFHTPQ, AND DFHTPR.
 THE MCR TS QUEUE ID IS RELATED TO THE CORRESPONDING
 LOGICAL MESSAGE PAGE TS QUEUE BY A NAMING CONVENTION.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NONE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = DSECT
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
 ALL DISPLACEMENTS ARE COMPUTED FROM 'DFHMCRDS'

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|---|
| (0) | | | DFHMCRDS | MCR DUMMY SECTION |
| (0) | DBL WORD | 8 | MCRSAAP | STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER |
| | 1.... | | MCRSTART | *** START OF MCR |
| (8) | FULLWORD | 4 | MCRLLBB | VARIABLE-LENGTH RECORD INFORMATION (LLBB) |
| (C) | CHARACTER | 8 | MCRCBID | MCR SELF IDENTIFICATION. SET TO 'DFHMCRDS' WHEN MCR CREATED |
| (14) | HALFWORD | 2 | MCRPGCNT | TOTAL PAGE COUNT |
| (16) | HALFWORD | 2 | MCRIDCNT | COUNT OF TERMINALS TO RECEIVE MESSAGE |
| (18) | HALFWORD | 2 | MCRLSTRM | DISPLACEMENT TO LAST TERMINAL ENTRY IN THIS RECORD |
| (1A) | HALFWORD | 2 | MCRITLD | DISPLACEMENT TO TITLE PAGE |
| (1C) | HALFWORD | 2 | MCRPLTD | DISPLACEMENT TO THE PAGE/LDC TABLE |
| (1E) | CHARACTER | 2 | MCRETLD | ERROR TERMINAL'S LDC MNEMONIC |
| (20) | CHARACTER | 4 | MCRERRID | ID OF TERMINAL TO RECEIVE ERROR NOTIFICATION |
| (24) | CHARACTER | 3 | MCROPCL | OPERATOR CLASS |
| (27) | BITSTRING | 1 | MCRPGCHN | PAGE CHAIN LEVEL |
| (28) | BITSTRING | 1 | MCRFLAGS | FLAGS |

NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE
 EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS --
 XXXTITLE - MESSAGE HAS A TITLE
 XXXWBCUR WTBK=CURR (2741)
 XXXWBALL WTBK=ALL (2741)
 XXXEODOP EODPURG=OPER
 WHERE XXX IS ONE OF MCR OR MCB

| | | | | |
|------|-----------|---|------------|---|
| | 1... | | MCRTITLE | "X'80" ...TITLE RECORD IN THIS MCR |
| | .1. | | MCRWBCUR | "X'40" ...WTBRK=CURRENT (2741 ONLY) |
| | .1. | | MCRWBALL | "X'20" ...WTBRK=ALL (2741 ONLY) |
| | ...1 | | MCREODOP | "X'10" ...EODPURG=OPER |
| | 1... | | MCRPAGE | "X'08" ...MAKE TEMPORARILY PAGING |
| |1. | | MCRAUTOP | "X'04" ...MAKE TEMPORARILY AUTOPAGE |
| |1. | | MCRBSSM | "X'02" ...BMS - SYSTEM MESSAGE |
| |1 | | MCRRTAIN | "X'01" ...CTRL=RETAIN |
| (29) | BITSTRING | 1 | MCRSTAT | STATUS FLAG |
| | 1... | | MCRQKPRG | "X'80" MESSAGE ELIGIBLE FOR QUICK PURGE |
| | .1. | | MCRMLDC | "X'40" MCR CONTAINS MULTIPLE LDC'S |
| | 1... | | MCRSCSA | "X'08" USE ALTERNATE SCREENSIZE |
| |1. | | MCRTRAN | "X'04" PAGES CONTAIN EXTRA BYTE FOR TRANSPARENT MODE |
| | .1. 11.. | | MCRIDLST | *** START OF TERMINAL LIST TERMINAL ENTRY FOR ONE TERMINAL - |
| (2C) | CHARACTER | 4 | MCRTRMID | TERMINAL IDENTIFICATION |
| (30) | CHARACTER | 2 | MCRLDCMN | LDC MNEMONIC |
| (32) | HALFWORD | 2 | MCRLDCPG | PAGE COUNT PER LDC |
| (34) | BITSTRING | 1 | MCRLDCCD | LDC CODE |
| (35) | CHARACTER | 3 | MCROPID | OPERATOR ID |
| (38) | BITSTRING | 1 | MCRSF | STATUS FLAG |
| | 1... | | MCRSFPG | "TCTTEPGP" PAGING STATUS |
| | .1. | | MCRFAIL | "X'40" LOCATE FAILED - ENTRY IS SKIPPED ONLY IF MCRMLDC IS ON |
| (39) | BITSTRING | 1 | MCRTEYP | TYPE OF TERMINAL ENTRY |
| | 1... | | MCRTEREM | "X'80" REMOTE TERMINAL |
| (3A) | CHARACTER | 8 | MCRDSN (0) | DESTINATION NAME IF LOCALLY OWNED TERMINAL |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (3A) | CHARACTER | 4 | MCRSYSID | ID OF TERMINAL OWNING SYSTEM (OR FIRST IN CHAIN) IF REMOTELY OWNED TERMINAL |
| (3E) | CHARACTER | 4 | | RESERVED |
| (42) | BITSTRING | 1 | MCRDSP | DATA STREAM PROFILE |
| (43) | BITSTRING | 1 | | RESERVED |
| | .1.. .1.. | | MCRIDNXT | "" LOCATION OF NEXT ID ENTRY |
| | ...1 1... | | MCRLNTRY | "MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH |

MCTDR Monitoring dictionary entry

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|-------------|
| (0) | | | DICTNTRY | |

MACRO NAME = DFHMCTDR
 DESCRIPTIVE NAME = CICS/ESA Monitoring Dictionary entry
 FUNCTION = Field definitions to map a monitoring dictionary
 entry.
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 ATTRIBUTES = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | CHARACTER | 8 | CMODNAME | NAME OF OWNER |
| (8) | CHARACTER | 1 | CMODTYPE | OBJECT-TYPE 'S' = CLOCK 'A' = COUNT 'C' = BYTE-STRING 'T' = TIMESTAMP (STCK FORMAT) 'P' = PACKED-DECIMAL FIELD |
| (9) | CHARACTER | 3 | CMODIDNT | NUMERIC ID. WITHIN OBJECT-TYPE |
| (C) | HALFWORD | 2 | CMODLENG | LENGTH OF OBJECT |
| (E) | BITSTRING | 2 | CMODCONN | ASSIGNED CONNECTOR |
| (10) | BITSTRING | 2 | CMODOFST | ASSIGNED OFFSET |
| (12) | CHARACTER | 8 | CMODHEAD | INFORMAL NAME |
| | ...1 1.1. | | CMODNEXT | "" |

MGM MGM format of prototype messages

CONTROL BLOCK NAME = DFHMGM TYPE=DSECT
 DESCRIPTIVE NAME = CICS MGM Format of Prototype Messages
 FUNCTION =
 The MGT entry describes the message to be issued.
 This DSECT maps the MGT entry.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|---|
| (0) | | | ETMGDSC | |
| (0) | BITSTRING | 1 | ETMGCTYP | TYPE 0 NO TCTTE PASSED 1 TCTTE PASSED 2 IST TCTTE = SENT MSG TCTTE, 2ND TCTTE = TERM IN INSERTS |
| THE OPTIONS SPECIFIED WITH THE MSG ARE ADDED TO THOSE PASSED BY THE CALLER NORMALLY NOTHING SHOULD BE SET | | | | |
| (1) | ADDRESS | 1 | ETMGDEST | DESTINATION |
| FIELD SAME AS MGMGDEST | | | | |
| | ..1. | | ETMDTERM | "X'20" DEST TERM |
| | 1.. | | ETMDRETN | "X'08" DEST RETURN TO CALLER |
| |1. | | ETMDNNUM | "X'04" PRODUCE NO NUMBER |
| |1. | | ETMDTIOA | "X'02" OBTAIN A TIOA |
| (2) | HALFWORD | 2 | ETMGMGNO | MSG NO |
| (4) | BITSTRING | 1 | ETMGMCOD | I/A/ TYPE ETC |
| FIELD SAME AS MGMOPTN1 | | | | |
| | 1... | | ETMGMCDI | "X'80" I TYPE MESSAGE |
| | .1. | | ETMGMCDA | "X'40" A TYPE MESSAGE |
| | ..1. | | ETMGMNLS | "X'20" NLS MESSAGE |
| | ...1 | | ETMGRESP | "X'10" response required |
| | 1.. | | ETMG1CID | "X'08" Component id specified |
| |1. | | ETMGMCNX | "X'04" ERRATT=NEXT |
| |1. | | ETMGMCNL | "X'02" ERRATT=LASTLINE |
| |1 | | ETMGMCNE | "X'01" ERRATT=NO |
| (5) | ADDRESS | 1 | ETMGINS2 | INSERT INFO - MGMOPTN2 |
| FIELD SAME AS MGMOPTN2 | | | | |
| (6) | ADDRESS | 1 | ETMDDUMP ETMGPTN3 | "X'10" DUMP ON THIS MESSAGE SWITCHES - MGMOPTN3 |
| FIELD SAME AS MGMOPTN3 | | | | |
| (7) | BITSTRING | 1 | ETMG3PID | "X'80" Product id specified |
| (8) | ADDRESS | 1 | ETMOFFV | OFFS OF MSG IN STG AREA |
| (9) | CHARACTER | 2 | ETMGDEX | DESTINATION EXTENTION BYTE |
| (B) | CHARACTER | 3 | ETMGCOMP | Component id |
| (E) | CHARACTER | 2 | ETMGPROD | Product id |
| (10) | HALFWORD | 2 | ETMGTLN | TOTAL L OF MSG TEXTS. |
| | CHARACTER | 1 | ETMGTSRT (0) | START OF TEXT |
| | ...1 | | TEXTOFF | "*-ETMGDSC" MSG TXT OFFSET |

THIS DSECT DESCRIBES PARTIAL MESSAGES IN PROTOTYPE MSGS

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-------------------------|
| (0) | | | ETMGTEXT | MSG TEXT. |
| (0) | HALFWORD | 2 | ETMGTYPL (0) | TYPE/LENGTH OF MSG TEXT |
| (0) | CHARACTER | 1 | ETMGTYPE | TYPE OF MSG TEXT. |
| (1) | CHARACTER | 1 | ETMGLEN | LENGTH OF MSG TEXT. |
| (2) | CHARACTER | 1 | ETMGMGDA | ACTUAL MSG |

THIS DSECT DESCRIBES THE INPUT PLIST

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|-------------------------------------|
| (0) | | | MGMAMAP | *** MAP THE FW ADCONS IN DFHINS *** |
| (0) | ADDRESS | 4 | MGMAMSG | A(MGMMDEST) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------------------|-----|----------------------|---|
| (4) | ADDRESS 1... .. | 4 | MGMAPARM MGMAMLST | A(INSERT/MSG TABLE) "X'80" LAST FLAG |

THIS DSECT DESCRIBES THE FIRST PARAMETER, WHICH IS ALWAYS PRESENT

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---|-----|--|---|
| (0) | | | MGMMDDEST | *** MESSAGE NO AND DESTINATION CODE *** |
| (0) | BITSTRING.... ..1 | 1 | MGMGTYPE MGMGTCTE | TYPE OF MESSAGE "X'01" MGMAPARM = A(TCTTE) |
| (1) | CHARACTER .1. 1... .... .1.. .... ..1. | 1 | MGMGDEST MGMDTERM MGMDRETN MGMDNNUM MGMDTIOA | DESTINATION/ACTION. "X'20" DEST TERM "X'08" DEST RETURN TO CALLER "X'04" NO MSG NO. TO BE PRODUCED "X'02" OBTAIN A TIOA |
| (2) | ADDRESS | 2 | MGMGNO | MSG NO |
| (4) | BITSTRING 1... .. .1. .... .1. .... ..1 1... .... .1.. .... ..1. .... ..1 | 1 | MGMOPTN1 MGMD1CDI MGMD1CDA MGMD1NLS MGMDRESP MGMD1CID MGMD1CNX MGMD1CNL MGMD1CNE | TYPE /I/A RESERVED "X'80" I TYPE MESSAGE "X'40" A TYPE MESSAGE "X'20" NLS MESSAGE "X'10" MGP Response code required "X'08" COMP ID PRESENT "X'04" ERRATT=NEXT "X'02" ERRATT=LASTLINE "X'01" ERRATT=NO |
| (5) | BITSTRING 1... .. .1. .... ..1 ......1 1... .... .1.. .... ..1. .... ..1 | 1 | MGMOPTN2 MGMTERAS MGMTFMHP MGMTCONV MGMDDUMP MGMDOFFS | OPTION TWO "X'80" ERASE REQUIRED * "X'40" FMH PRESENT "X'20" CONVERSE REQUIRED "X'10" DUMP REQUIRED "X'08" PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA * "X'04" UNLOCK OPTION REQUIRED "X'02" LAST OPTION REQUIRED "X'01" WAIT OPTION REQUIRED * |
| (6) | BITSTRING 1... .. | 1 | MGMOPTN3 MGMO3PID | OPTION THREE "X'80" PRODUCT ID SPECIFIED |
| (7) | BITSTRING | 1 | MGMOFFV | VALUE OF OFFSET WITHIN STG AREA FOR START OF MSG |
| (8) | CHARACTER | 1 | MGMGDESX | DESTINATION EXTENTION BYTE |
| (9) | BITSTRING | 1 | MGMRESP | MGP Response code |
| (A) | CHARACTER | 2 | MGMGCOMP | COMPONENT ID |
| (C) | CHARACTER 1111 | 3 | MGMGPROD MGMMDLN | PRODUCT ID "-MGMMDDEST" LENGTH OF MGMMDLST PARM |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------------|
| (0) | | | MGININSERT | *** LENGTH AND 'TEXT' OF INSERT *** |
| (0) | ADDRESS | 2 | MGINSR | LENGTH OF INSERT IF ANY |
| (2) | CHARACTER | 1 | MGINSRD | INSERT IF ANY |

MNEMP Monitoring domain user EMP structure

CONTROL BLOCK NAME = DFHMNEMP
 DESCRIPTIVE NAME = CICS Monitoring Domain User EMP structure
 definitions for EMP Qualifiers, EMP chaining, and EMP options.
 FUNCTION =
 This copy book contain the structure definitions used by the Monitoring Domain for User EMPs defined in the Monitoring Control Table (if any).
 It contains the following structures...
 a) User EMP address list defined in an MCT.
 b) User EMP Qualifier and EMP chaining.
 c) User EMP Option definitions.
 The MN Domain User Event Monitoring Point (EMP)
 The User Event Monitoring Point contains:
 The address of the next EMP with the same id
 The address of the EMP qualifier
 A sequence of EMP options
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Structure definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------------|-------------|
| (0) | STRUCTURE | 8 | DFHMNEMP | |
| (0) | ADDRESS | 4 | MNEMP_NEXT_ EMP_FOR_ID | |
| (4) | ADDRESS | 4 | MNEMP_QUALIFIER_PTR | |

EMP Options

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | 12 | DFHMNOPT | |
| (0) | UNSIGNED | 2 | MNEMP_OPTION_TYPE | |
| (2) | UNSIGNED | 2 | MNEMP_OPTION_SOURCE | |
| (4) | ADDRESS | 4 | MNEMP_OPTION_OFFSET | |
| (8) | UNSIGNED | 4 | MNEMP_OPTION_CNSTANT | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------------|-------------|
| 2 | DECIMAL | 1 | MNEMP_SCLOCK | |
| 2 | DECIMAL | 2 | MNEMP_PCLOCK | |
| 2 | DECIMAL | 3 | MNEMP_SCPUCLK | |
| 2 | DECIMAL | 4 | MNEMP_PCPUCLK | |
| 2 | DECIMAL | 5 | MNEMP_ADDCNT | |
| 2 | DECIMAL | 6 | MNEMP_SUBCNT | |
| 2 | DECIMAL | 7 | MNEMP_NACNT | |
| 2 | DECIMAL | 8 | MNEMP_ORCNT | |
| 2 | DECIMAL | 9 | MNEMP_EXCNT | |
| 2 | DECIMAL | 10 | MNEMP_MLTCNT | |
| 2 | DECIMAL | 11 | MNEMP_MOVE | |
| 2 | DECIMAL | 12 | MNEMP_DELIVER | |
| 2 | DECIMAL | 65535 | MNEMP_END | |
| 2 | DECIMAL | 1 | MNEMP_CONSTANT | |
| 2 | DECIMAL | 2 | MNEMP_DATA1 | |
| 2 | DECIMAL | 3 | MNEMP_DATA2 | |

MNEXC Monitoring exception record

```

MACRO NAME = DFHMNEXC
DESCRIPTIVE NAME = CICS Monitoring Exception Record
FUNCTION =
    To generate the dsect for the Monitoring Exception Record
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = None
    REGISTER CONVENTIONS = None
    MODULE TYPE = Object definition macro
    ATTRIBUTES = N/A
PURPOSE = To generate the dsect for the Monitoring Exception
    Record.
SYNTAX = <name> DFHMNEXC <PREFIX=xxx>
INPUTS = None
OUTPUTS = Definition of the Monitoring Exception Record.
RETURN CODES = None
PROGRAMMING NOTES = None
MACRO MESSAGES =
    DFHMNEXC - INVALID OVERRIDING PREFIX
EXTERNAL REFERENCES =
    MACROS (Macro pass) = None
    ROUTINES (Generated code) = None
    DATA AREAS (Generated code) = None
    CONTROL BLOCKS (Generated code) = None
    GLOBAL VARIABLES (Macro pass) = None
    
```

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|-----|------------|----------------------------------|
| | | | MNEXCDS | |
| (0) | CHARACTER | 4 | EXCMNTRN | TRANSACTION IDENTIFICATION |
| (4) | BITSTRING | 4 | EXCMNTER | TERMINAL IDENTIFICATION |
| (8) | CHARACTER | 8 | EXCMNUSR | USER IDENTIFICATION |
| (10) | CHARACTER | 4 | EXCMNTST | TRANSACTION START TYPE |
| (14) | BITSTRING | 8 | EXCMNSTA | EXCEPTION START TIME |
| (1C) | BITSTRING | 8 | EXCMNSTO | EXCEPTION STOP TIME |
| (24) | | 4 | EXCMNTNO | TRANSACTION NUMBER |
| (28) | BITSTRING | 4 | EXCMNTPR | TRANSACTION PRIORITY |
| (2C) | CHARACTER | 4 | | RESERVED |
| (30) | CHARACTER | 8 | EXCMNLUN | LUNAME |
| (38) | CHARACTER | 4 | | RESERVED |
| (3C) | BITSTRING | 4 | EXCMNEXN | EXCEPTION NUMBER |
| (40) | CHARACTER | 8 | EXCMNRTY | EXCEPTION RESOURCE TYPE |
| (48) | CHARACTER | 8 | EXCMNRID | EXCEPTION RESOURCE ID |
| (50) | BITSTRING | 2 | EXCMNTYP | EXCEPTION TYPE |
| |1 | | EXCMNWT | "X'0001" WAIT |
| |1. | | EXCMNBWT | "X'0002" BUFFER WAIT |
| |11 | | EXCMNSWT | "X'0003" STRING WAIT |
| (52) | CHARACTER | 2 | | RESERVED |
| (54) | CHARACTER | 8 | EXCMNTCN | TRANSACTION CLASS NAME |
| (5C) | CHARACTER | 8 | EXCMNSRV | SERVICE CLASS NAME |
| (64) | CHARACTER | 8 | EXCMNRPT | REPORT CLASS NAME |
| (6C) | CHARACTER | 20 | EXCMNPNX | NETWORK UNIT-OF-WORK PREFIX |
| (80) | BITSTRING | 8 | EXCMNNSX | NETWORK UNIT-OF-WORK SUFFIX |
| (88) | BITSTRING | 8 | EXCMNTRF | TRANSACTION FLAGS |
| (90) | CHARACTER | 4 | EXCMNFCN | TRANSACTION FACILITY NAME |
| (94) | CHARACTER | 8 | EXCMNCPN | CURRENT PROGRAM NAME |
| (9C) | CHARACTER | 4 | EXCMNBTR | BRIDGE TRANSACTION ID |
| (A0) | BITSTRING | 16 | EXCMNURI | RRMS/MVS UNIT OF RECOVERY ID |
| (B0) | FULLWORD | 4 | EXCMNRIL | EXCEPTION RESOURCE ID LENGTH |
| (B4) | BITSTRING | 256 | EXCMNRIX | EXCEPTION RESOURCE ID (EXTENDED) |
| END OF EXCEPTION RECORD ... | | | | |

MNG Monitoring domain statistics

CONTROL BLOCK NAME = DFHMNGDS
 DESCRIPTIVE NAME = CICS Monitoring domain statistics
 FUNCTION =
 This data area contains global statistics provided by the Monitoring Domain
 It is provided for use in users monitoring applications to map the statistics written to SMF by the statistics domain.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created when the Monitoring Domain is initialised and remains until the domain is shut down.
 LOCATION =
 User is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | | | DFHMNGDS | Monitoring Domain Stats |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | MNGLEN | Length of data |
| | .1.1 ...1 | | MNGIDE | "81" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNGID | Monitoring domain id |
| |1 | | MNGVERS | "X'01" DSECT version mask |
| (4) | CHARACTER | 1 | MNGDVERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | MNGER | No. Exception records |
| (C) | FULLWORD | 4 | MNGERS | No. Exception records supp. by exit |
| (10) | FULLWORD | 4 | MNGPR | No. Performance records |
| (14) | FULLWORD | 4 | MNGPRS | No. Performance records supp. by exit |
| (18) | FULLWORD | 4 | MNGSMFR | No. SMF records |
| (1C) | FULLWORD | 4 | MNGSMFE | No. SMF Errors |
| (20) | FULLWORD | 4 | MNGSYSER | No. Sysevent records |
| (24) | FULLWORD | 4 | MNGSYSEE | No. Sysevent errors |
| | ..1. 1... | | MNGEND | *** |
| | ..1. 1... | | MNGCLEN | **-MNGLEN" Length |

MNSMF SMF header and SMF product section

```

MACRO NAME = DFHMNSMF
DESCRIPTIVE NAME = CICS SMF Header and SMF Product Section
                    for Monitoring
FUNCTION =
    TO GENERATE THE SMF HEADER AND SMF PRODUCT SECTION DSECT
    FOR THE MONITORING SMF RECORDS.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
REGISTER CONVENTIONS = None
MODULE TYPE = DSECT DEFINITION MACRO
ATTRIBUTES = N/A
PURPOSE = GENERATE THE DSECT FOR THE MONITORING RECORD SMF HEADER
          AND SMF PRODUCT SECTION.
SYNTAX = <name> DFHMNSMF <TYPE=xxx>
INPUTS = NONE
OUTPUTS = DEFINITION FOR SMF HEADER AND SMF PRODUCT SECTION
RETURN CODES = NONE
PROGRAMMING NOTES = NONE
OPERAND = TYPE=xxx
FUNCTION = To provide an overriding field name prefix.
DEFAULT = None
RESTRICTIONS = None
NOTES = None
EXAMPLES
    TYPE=ABC
MACRO MESSAGES =
    DFHMNSMF - INVALID OVERRIDING PREFIX
MACRO EXAMPLES =
GENERATED CODE = NONE
EXTERNAL REFERENCES = NONE
MACROS (MACRO PASS) = NONE
ROUTINES (GENERATED CODE) = NONE
DATA AREAS (GENERATED CODE) = NONE
CONTROL BLOCKS (GENERATED CODE) = NONE
GLOBAL VARIABLES (MACRO PASS) = NONE
    
```

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|--------------------------------------|-----------|-----|------------|---|
| | | | MNSMFDS | |
| (0) | BITSTRING | 2 | SMFMNLEN | RECORD LENGTH |
| (2) | BITSTRING | 2 | SMFMNSEG | SEGMENT DESCRIPTOR |
| (4) | BITSTRING | 1 | SMFMNFLG | OPERATING SYSTEM INDICATOR |
| | 11.. | | SMFMNESA | "X'C0" SMF SYSTEM INDICATOR |
| (5) | BITSTRING | 1 | SMFMNRTY | RECORD TYPE 110 FOR CICS |
| (6) | BITSTRING | 4 | SMFMNTME | TIME RECORD MOVED |
| (A) | BITSTRING | 4 | SMFMNDTE | DATE RECORD MOVED |
| (E) | BITSTRING | 4 | SMFMNSID | SYSTEM IDENTIFICATION |
| (12) | CHARACTER | 4 | SMFMNSSI | SUB-SYSTEM IDENTIFICATION |
| (16) | BITSTRING | 2 | SMFMNSTY | RECORD SUBTYPE - 'X'0000' FOR JOURNALING - 'X'0001' FOR MONITORING - 'X'0002' FOR STATISTICS |
| (18) | BITSTRING | 2 | SMFMNTRN | NUMBER OF TRIPLETS IN RECORD |
| (1A) | BITSTRING | 2 | | RESERVED |
| (1C) | BITSTRING | 4 | SMFMNAPS | OFFSET TO CICS PRODUCT SECTION |
| (20) | BITSTRING | 2 | SMFMNLPS | LENGTH OF CICS PRODUCT SECTION |
| (22) | BITSTRING | 2 | SMFMNPPS | NUMBER OF CICS PRODUCT SECTIONS |
| (24) | BITSTRING | 4 | SMFMNASS | OFFSET TO CICS DATA SECTION |
| (28) | BITSTRING | 2 | SMFMNASL | LENGTH OF CICS DATA SECTION |
| (2A) | BITSTRING | 2 | SMFMNASN | NUMBER OF CICS DATA SECTIONS |
| END OF SMF-HEADER ... | | | | |
| ... START OF SMF PRODUCT-SECTION ... | | | | |
| (2C) | BITSTRING | 2 | SMFMNVRN | RECORD VERSION, FORMAT 'X'0VRM' V = VERSION R = RELEASE M = MODIFICATION |
| (2E) | CHARACTER | 8 | SMFMNPRN | PRODUCT NAME (APPLID) |
| (36) | CHARACTER | 8 | SMFMNSPN | SPECIFIC APPLID |
| (3E) | BITSTRING | 2 | SMFMNMFL | RECORD MAINTENANCE INDICATOR |
| (40) | BITSTRING | 2 | | RESERVED |
| (42) | BITSTRING | 2 | SMFMNCL | CLASS OF DATA |
| (44) | BITSTRING | 4 | SMFMNDCA | OFFSET TO CICS FIELD CONNECTORS |
| (48) | BITSTRING | 2 | SMFMNDCL | LENGTH OF EACH CICS FIELD CONNECTOR |
| (4A) | BITSTRING | 2 | SMFMNDCN | NUMBER OF CICS FIELD CONNECTORS |
| (4C) | BITSTRING | 4 | SMFMNDRA | OFFSET TO FIRST CICS DATA RECORD |
| (50) | BITSTRING | 2 | SMFMNDRL | LENGTH OF EACH CICS DATA RECORD |
| (52) | BITSTRING | 2 | SMFMNDRN | NUMBER OF CICS DATA RECORDS |
| (54) | BITSTRING | 20 | | Reserved |
| (68) | BITSTRING | 4 | SMFMNTAD | Local TOD clock adjustment value |
| (6C) | BITSTRING | 8 | SMFMNLSSO | Leap Second Offset TOD format |
| (74) | BITSTRING | 8 | SMFMNDTO | Local Time/Date Offset |
| (7C) | BITSTRING | 2 | | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------|
| (7E) | CHARACTER | 8 | SMFMNJB | JOBNAME |
| (86) | BITSTRING | 4 | SMFMNRS | JOB DATE |
| (8A) | BITSTRING | 4 | SMFMNRST | JOB TIME |
| (8E) | CHARACTER | 8 | SMFMNUIF | USER IDENTIFICATION |
| (96) | CHARACTER | 8 | SMFMNPDN | OPERATING SYSTEM PRODUCT LEVEL |

... END OF SMF PRODUCT-SECTION.

MNT Transaction monitoring data

CONTROL BLOCK NAME = DFHMNTDS
 DESCRIPTIVE NAME = CICS Transaction Monitoring data copybook
 FUNCTION = This copybook describes a transaction monitoring data record. The record is built by the monitoring domain. There is one record for each transaction.
 LIFETIME = The storage for a record is obtained when a request is made for transaction monitoring data. It is released when the request has been satisfied.
 LOCATION = The caller is passed a pointer to the head of the record.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In monitoring domain
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|---|
| (0) | | | DFHMNTDS | , |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | MNTLEN | Length of data |
| | .1.1 ..1. | | MNTIDE | "82" Monitoring domain id mask |
| (2) | ADDRESS | 2 | MNTID | Monitoring domain id |
| |1 | | MNTVERS | "X'01" DSECT version mask |
| (4) | CHARACTER | 1 | MNTDVERS | DSECT version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | HALFWORD | 2 | TMRBEGIN (0) | |
| (8) | CHARACTER | 4 | TMRTRID | TRAN - Transaction identification |
| (C) | CHARACTER | 4 | TMREID | TERM - Terminal identification |
| (10) | CHARACTER | 8 | TMRUSID | USERID - User identification |
| (18) | CHARACTER | 4 | TMRTRTY | TTYPE - Transaction type |
| (1C) | CHARACTER | 8 | TMRATT | START - Task start time |
| (24) | CHARACTER | 8 | TMRDETT | STOP - Task stop time |
| (2C) | CHARACTER | 4 | TMRTRSN | TRANNUM - Transaction sequence number |
| (30) | BITSTRING | 4 | TMRTPRI | TRANPRI - Transaction priority |
| (34) | CHARACTER | 8 | TMRTCLSN | TCLSNAME - Transaction class name |
| (3C) | CHARACTER | 8 | TMRLUNM | LUNAME - VTAM logical unit name |
| (44) | CHARACTER | 8 | TMRPGNM | PGMNAME - First program name Originating Network Unit-of-Work id |
| (4C) | CHARACTER | 20 | TMRNETPX | NETUOWPX - Network Unit-of-Work Netname |
| (60) | BITSTRING | 8 | TMRNETSX | NETUOWSX - Network Unit-of-Work Instance/Seqno |
| (68) | CHARACTER | 4 | TMRRSYS | RSYSID - Remote sysid routed to |
| (6C) | BITSTRING | 4 | TMRPRCNT | PERRECNT - Performance record count |
| (70) | CHARACTER | 8 | TMRMUOW | RMUOWID - Recovery Manager Unit-of-Work id |
| (78) | CHARACTER | 8 | TMRSRVCL | SRVCLSNM - Workload Manager service class name |
| (80) | CHARACTER | 8 | TMRRPTCL | RPTCLSNM - Workload Manager report class name |
| (88) | CHARACTER | 4 | TMRFACTY | FCTYNAME - Transaction Facility name |
| (8C) | BITSTRING | 8 | TMRTFLG (0) | TRANFLAG - Transaction flags |
| (8C) | BITSTRING | 1 | TMTRFL1 | Transaction Flag 1 |
| | 1... | | TMTRFL1_NONE | "X'80" None |
| | .1. | | TMTRFL1_TERM | "X'40" Terminal Facility |
| | ..1. | | TMTRFL1_SURR | "X'20" Surrogate Terminal Facility |
| | ...1 | | TMTRFL1_DEST | "X'10" Destination Facility |
| | 1.. | | TMTRFL1_BRDG | "X'08" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (8D) | BITSTRING | 1 | TMTRFL2 | Transaction Flag 2 |
| | 1... | | TMTRFL2_SYSTEM | "X'80" System Transaction |
| | .1. | | TMTRFL2_MIRROR | "X'40" Mirror Transaction |
| | ..1. | | TMTRFL2_DPL | "X'20" Mirror Transaction - DPL |
| | ...1 | | TMTRFL2_ONC_RPC | "X'10" Alias Transaction - ONC/RPC |
| | 1.. | | TMTRFL2_WEB | "X'08" Alias Transaction - WEB |
| |1. | | TMTRFL2_BRIDGE | "X'04" Bridge Transaction EQU X'02' Reserved |
| |1 | | TMRTFFL2_RUN_TRAN | "X'01" BTS Run Transaction |
| (8E) | BITSTRING | 1 | TMTRFL3 | Transaction Flag 3 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|--|
| | 1... .. | | TMRTRFL3_RPT | "X'80" WLM Report |
| | .1.. .. | | TMRTRFL3_NTFY_COMP | "X'40" WLM Notify - Completion |
| | .1. | | TMRTRFL3_NTFY | "X'20" WLM Notify |
| (8F) | BITSTRING | 1 | TMRTRFL4 | Transaction Flag 4 |
| | 1... .. | | TMRTRFL4_LOC_BELOW | "X'80" Taskdataloc=below |
| | .1.. .. | | TMRTRFL4_CICS_KEY | "X'40" Taskdatakey=cics |
| | .1. | | TMRTRFL4_ISOLATE_NO | "X'20" Isolate=no |
| | ...1 | | TMRTRFL4_DYNAMIC | "X'10" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (90) | BITSTRING | 1 | TMRTRFL5 | Transaction Flag 5 Transaction origin type |
| (91) | BITSTRING | 1 | TMRTRFL6 | Transaction Flag 6 - Reserved |
| (92) | BITSTRING | 1 | TMRTRFL7 | Transaction Flag 7 - Reserved |
| (93) | BITSTRING | 1 | TMRTRFL8 | Transaction Flag 8 |
| | 1... .. | | TMRTRFL8_WAIT_NO | "X'80" Indoubt wait = no |
| | .1.. .. | | TMRTRFL8_COMMIT | "X'40" Indoubt action = commit |
| | .1. | | TMRTRFL8_INDOUBT_ACT | "X'20" UOW Indoubt action |
| | ...1 | | TMRTRFL8_UOW_SHUNT | "X'10" UOW Shunt |
| | 1... | | TMRTRFL8_UOW_UNSHUNT | "X'08" UOW Unshunt |
| |1.. | | TMRTRFL8_INDBT_FAIL | "X'04" Indoubt failure |
| |1. | | TMRTRFL8_RO_FAILURE | "X'02" Resource Owner failure EQU X'01' Reserved |
| (94) | BITSTRING | 4 | TMRTEINF (0) | TERMINFO - Terminal Information |
| (94) | BITSTRING | 1 | TMRNATUR | Nature |
|  | .... .. |  | TMRNATUR_NOTAPPLIC | "X'00" Not applic |
| |1. | | TMRNATUR_TERMINAL | "X'01" Terminal |
| |1. | | TMRNATUR_SESSION | "X'02" Session |
| (95) | BITSTRING | 1 | TMRSESST | Session Type |
|  | .... .. |  | TMRSESST_NOTAPPLIC | "X'00" Not applic |
| |1. | | TMRSESST_IRC | "X'01" IRC |
| |1. | | TMRSESST_IRC_XM | "X'02" IRC XM |
| |11 | | TMRSESST_IRC_XCF | "X'03" IRC XCF |
| |1.. | | TMRSESST_LU61 | "X'04" LU61 |
| |1.1 | | TMRSESST_LU62_SING | "X'05" LU62 SINGLE |
| |11. | | TMRSESST_LU62_PARA | "X'06" LU62 PARALLEL |
| (96) | BITSTRING | 1 | TMRACMTH | Access method |
|  | .... .. |  | TMRACMTH_NOTAPPLIC | "X'00" Not applic |
| |1. | | TMRACMTH_VTAM | "X'01" VTAM |
| |1. | | TMRACMTH_BTAM | "X'02" BTAM |
| |11 | | TMRACMTH_BSAM | "X'03" BSAM |
| |1.. | | TMRACMTH_TCAM | "X'04" TCAM |
| |1.1 | | TMRACMTH_TCAMSNA | "X'05" TCAMSNA |
| |11. | | TMRACMTH_BGAM | "X'06" BGAM |
| |111 | | TMRACMTH_CONSOLE | "X'07" CONSOLE |
| (97) | BITSTRING | 1 | TMRDVTCD | Device type code See TYPETERM RDO attribute |
| (98) | CHARACTER | 4 | TMRTECNM | TERMCNM - Terminal Connection name |
| (9C) | CHARACTER | 4 | TMRBTRID | BRDGRAN - Bridge Transaction id |
| (A0) | CHARACTER | 16 | TMRURID | RRMSURID - RRMS/MVS Unit of Recovery id |
| (B0) | CHARACTER | 36 | TMRPNAME | PRCSNAME - Process name |
| (D4) | CHARACTER | 8 | TMRPTYPE | PRCSTYPE - Process type |
| (DC) | CHARACTER | 52 | TMRPRCID | PRCSID - Process id |
| (110) | CHARACTER | 52 | TMRACTID | ACTVTYID - Activity id |
| (144) | CHARACTER | 16 | TMRACTNM | ACTVTYNM - Activity name |
| (154) | CHARACTER | 16 | TMRICIPAD | CLIPADDR - Client IP Address |
| (164) | BITSTRING | 28 | TMRTPID | TRNGRPID - TRANSACTION GROUP ID |
| (180) | BITSTRING | 4 | TMRERROR | TASKFLAG - Transaction error flags |
| (184) | CHARACTER | 4 | TMRABCD0 | ABCODE0 - Original Transaction abend codes |
| (188) | CHARACTER | 4 | TMRABCD4 | ABCODE4 - Current Transaction abend code |
| (18C) | CHARACTER | 4 | TMRRTYPE | RTYPE - Record type |
| | 11.. .11 | | TMRRTYPE_CONVERSE | "C'C" Converse |
| | 11.. .1.. | | TMRRTYPE_DELIVER | "C'D" Deliver |
| | 11.. .11. | | TMRRTYPE_FREQUENCY | "C'F" Frequency |
| | 111. .1. | | TMRRTYPE_SYNCPOINT | "C'S" Syncpoint |
| | 111. .11 | | TMRRTYPE_TERMINATE | "C'T" Terminate |
| (190) | BITSTRING | 4 | TMRPINMC | TCMSGIN1 - Primary TC messages - in |
| (194) | BITSTRING | 4 | TMRTC1C | TCCHRIN1 - Primary TC characters - in |
| (198) | BITSTRING | 4 | TMRPOUMC | TCMSGOU1 - Primary TC messages - out |
| (19C) | BITSTRING | 4 | TMRTO1C | TCCHROU1 - Primary TC characters - out |
| (1A0) | BITSTRING | 4 | TMRPINMC | TCMSGIN2 - Secondary TC messages - in |
| (1A4) | BITSTRING | 4 | TMRTC1C | TCCHRIN2 - Secondary TC characters - in |
| (1A8) | BITSTRING | 4 | TMRPOUMC | TCMSGOU2 - Secondary TC messages - out |
| (1AC) | BITSTRING | 4 | TMRTO2C | TCCHROU2 - Secondary TC characters - out |
| (1B0) | BITSTRING | 4 | TMR62IMC | TCM62IN2 - Secondary TC msgs for LU6.2. - in |
| (1B4) | BITSTRING | 4 | TMR62IC | TCC62IN2 - Secondary TC chars for LU6.2. - in |
| (1B8) | BITSTRING | 4 | TMR62OMC | TCM62OU2 - Secondary TC msgs for LU6.2. - out |
| (1BC) | BITSTRING | 4 | TMR62OCH | TCC62OU2 - Secondary TC chars for LU6.2. - out |
| (1C0) | BITSTRING | 4 | TMRAC | TALLOCT - No. TCTTE allocate requests |
| (1C4) | BITSTRING | 4 | TMRSCUGB | SCUGETCT - No. user storage getmains below line |
| (1C8) | BITSTRING | 4 | TMRSCUGA | - No. user storage getmains above line |
| (1CC) | BITSTRING | 4 | TMRSCCGB | SCCGETCT - No. CDSA storage getmains below line |
| (1D0) | BITSTRING | 4 | TMRSCCGA | - No. ECDSA storage getmains above line |
| (1D4) | BITSTRING | 4 | TMRUSHWB | SCUSRHWM - User task storage hwm below line |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (1D8) | BITSTRING | 4 | TMRUSHWA | - User task storage hwm above line |
| (1DC) | BITSTRING | 4 | TMRCHWMB | SC24CHWM - CDSA storage hwm below the line |
| (1E0) | BITSTRING | 4 | TMRCHWMA | SC31CHWM - ECDSA storage hwm above the line |
| (1E4) | BITSTRING | 8 | TMRUTSOB | SCUSRSTG - User task stge "occupancy" below line |
| (1EC) | BITSTRING | 8 | TMRUTSOA | - User task stge "occupancy" above line |
| (1F4) | BITSTRING | 8 | TMRCOCCB | SC24COCC - CDSA storage "occupancy" below line |
| (1FC) | BITSTRING | 8 | TMRCOCCA | SC31COCC - ECDSA storage "occupancy" above line |
| (204) | BITSTRING | 4 | TMRSC24S | SC24SGCT - Shared stg getmain count below 16M |
| (208) | BITSTRING | 4 | TMRSC24G | SC24GSHR - Shared stg bytes getmain'd |
| (20C) | BITSTRING | 4 | TMRSC24F | SC24FSHR - Shared stg bytes freemain'd |
| (210) | BITSTRING | 4 | TMRSC31S | SC31SGCT - Shared stg getmain count above 16M |
| (214) | BITSTRING | 4 | TMRSC31G | SC31GSHR - Shared stg bytes getmain'd |
| (218) | BITSTRING | 4 | TMRSC31F | SC31FSHR - Shared stg bytes freemain'd |
| (21C) | BITSTRING | 4 | TMRPCUSE | PCSTGHWM - Program storage hwm |
| (220) | BITSTRING | 4 | TMRPC31A | PC31AHWM - Prog storage hwm above the line |
| (224) | BITSTRING | 4 | TMRPCUSB | PC24BHWM - Prog storage hwm below the line |
| (228) | BITSTRING | 4 | TMRPCCAH | PC31CHWM - ECDSA prog storage hwm above |
| (22C) | BITSTRING | 4 | TMRPCCBH | PC24CHWM - CDSA prog storage hwm below |
| (230) | BITSTRING | 4 | TMRPCRAH | PC31RHWM - R/O prog storage hwm above |
| (234) | BITSTRING | 4 | TMRPCRBH | PC24RHWM - R/O prog storage hwm below |
| (238) | BITSTRING | 4 | TMRPCSAH | PC31SHWM - Shared prog storage hwm above |
| (23C) | BITSTRING | 4 | TMRPCSBH | PC24SHWM - Shared prog storage hwm below |
| (240) | BITSTRING | 4 | TMRFCGC | FCGETCT - No. file gets |
| (244) | BITSTRING | 4 | TMRFCPC | FCPUTCT - No. file puts |
| (248) | BITSTRING | 4 | TMRFCBC | FCBRWCT - No. file browses |
| (24C) | BITSTRING | 4 | TMRFCAC | FCADDCT - No. file adds |
| (250) | BITSTRING | 4 | TMRFCDC | FCDELCT - No. file deletes |
| (254) | BITSTRING | 4 | TMRFCTC | FCTOTCT - Total FC requests |
| (258) | BITSTRING | 4 | TMRFCAMC | FCAMCT - No. access method requests |
| (25C) | BITSTRING | 4 | TMRTDGC | TDGETCT - No. transient data gets |
| (260) | BITSTRING | 4 | TMRTDPC | TDPUTCT - No. transient data puts |
| (264) | BITSTRING | 4 | TMRTDRC | TDPURCT - No. transient data purges |
| (268) | BITSTRING | 4 | TMRTDTC | TDTOTCT - Total TD requests |
| (26C) | BITSTRING | 4 | TMRMSGC | TSGETCT - No. temp storage gets |
| (270) | BITSTRING | 4 | TMRSPAC | TSPUTACT - No. temp storage puts - aux |
| (274) | BITSTRING | 4 | TMRSPMC | TSPUTMCT - No. temp storage puts - main |
| (278) | BITSTRING | 4 | TMRSTC | TSOTCT - Total TS requests |
| (27C) | BITSTRING | 4 | TMRBMMC | BMSMAPCT - No. BMS map requests |
| (280) | BITSTRING | 4 | TMRBMIC | BMSINCT - No. BMS in requests |
| (284) | BITSTRING | 4 | TMRBMOC | BMSOUTCT - No. BMS out requests |
| (288) | BITSTRING | 4 | TMRBMTCT | BMSTOTCT - Total BMS requests |
| (28C) | BITSTRING | 4 | TMRPCLIC | PCLINKCT - No. program links |
| (290) | BITSTRING | 4 | TMRPCXC | PCXCTLCT - No. program xctls |
| (294) | BITSTRING | 4 | TMRPCLOC | PCLOADCT - No. program loads |
| (298) | BITSTRING | 4 | TMRPCLUC | PCLURMCT - No. program links to URMs |
| (29C) | BITSTRING | 4 | TMRPCDPL | PCDPLCT - No. DPL program links |
| (2A0) | BITSTRING | 4 | TMRJNLCT | JNLWRCT - No. journal write requests |
| (2A4) | BITSTRING | 4 | TMRLOGWCT | LOGWRCT - No. CICS logger write requests |
| (2A8) | BITSTRING | 4 | TMRICCT | ICPUICT - No. interval control starts |
| (2AC) | BITSTRING | 4 | TMRICTCT | ICTOTCT - Total interval control requests |
| (2B0) | BITSTRING | 4 | TMRSPPC | SPSYNCCT - No. syncpoint requests |
| (2B4) | BITSTRING | 4 | TMRFACT | CFCAPICT - No. OO Class Library API requests |
| (2B8) | BITSTRING | 4 | TMRSZACT | SZALLOCT - No. FEPI allocates |
| (2BC) | BITSTRING | 4 | TMRSZRCT | SZRCVCT - No. FEPI receives |
| (2C0) | BITSTRING | 4 | TMRSZSCT | SZSENDCT - No. FEPI sends |
| (2C4) | BITSTRING | 4 | TMRSZTCT | SZSTRCT - No. FEPI starts |
| (2C8) | BITSTRING | 4 | TMRSZCOT | SZCHROUT - No. chars sent via FEPI |
| (2CC) | BITSTRING | 4 | TMRSZCIN | SZCHRIN - No. chars received via FEPI |
| (2D0) | BITSTRING | 4 | TMRSZATO | SZALLCTO - No. FEPI allocate timeouts |
| (2D4) | BITSTRING | 4 | TMRSZRTO | SZRCVTO - No. FEPI receive timeouts |
| (2D8) | BITSTRING | 4 | TMRSZTOT | SZTOTCT - Total no. FEPI requests |
| (2DC) | BITSTRING | 4 | TMRBARSC | BARSYNCT - No. Run Process/Activity Sync |
| (2E0) | BITSTRING | 4 | TMRBARAC | BARASYCT - No. Run Process/Activity Async |
| (2E4) | BITSTRING | 4 | TMRBALKC | BALKPACT - No. Link Process/Activity reqs |
| (2E8) | BITSTRING | 4 | TMRBADPC | BADPROCT - No. Define Process requests |
| (2EC) | BITSTRING | 4 | TMRBADAC | BADACTCT - No. Define Activity requests |
| (2F0) | BITSTRING | 4 | TMRBTPAC | BARSPACT - No. Reset Process/Activity requests |
| (2F4) | BITSTRING | 4 | TMRBSPAC | BASUPACT - No. Suspend Process/Activity requests |
| (2F8) | BITSTRING | 4 | TMRBRPAC | BARMPACT - No. Resume Process/Activity requests |
| (2FC) | BITSTRING | 4 | TMRBDPC | BADPCACT - No. Delete Activity and Cancel Process or Activity requests |
| (300) | BITSTRING | 4 | TMRBAAPC | BAACQPCT - No. Acquire Process requests |
| (304) | BITSTRING | 4 | TMRBATPC | BATOTPCT - Total No. Process/Activity requests |
| (308) | BITSTRING | 4 | TMRBAPDC | BAPRDCT - No. Process Data Container requests |
| (30C) | BITSTRING | 4 | TMRBAADC | BAACDCCT - No. Activity Data Container requests |
| (310) | BITSTRING | 4 | TMRBATCC | BATOTCCT - Total No. Data Container requests |
| (314) | BITSTRING | 4 | TMRBAREC | BARATECT - No. Retrieve Reattach Event requests |
| (318) | BITSTRING | 4 | TMRBADIC | BADFIECT - No. Define Input Event requests |
| (31C) | BITSTRING | 4 | TMRBATAEC | BATIAECT - No. Timer Associated Event requests |
| (320) | BITSTRING | 4 | TMRBATEC | BATOTECT - Total No. Event requests |
| (324) | BITSTRING | 4 | TMRWBRCT | WBRCVCT - No. WEB Receive requests |
| (328) | BITSTRING | 4 | TMRWBGIN | WBCHRIN - No. Characters received via WEB reqs |
| (32C) | BITSTRING | 4 | TMRWBSCT | WBSENDCT - No. WEB Send requests |
| (330) | BITSTRING | 4 | TMRWBCOT | WBCHROUT - No. Characters sent via WEB requests |
| (334) | BITSTRING | 4 | TMRWBTC | WBTOTCT - Total No. WEB requests |
| (338) | BITSTRING | 4 | TMRWBRPR | WBREPRCT - No. Repository Reads |
| (33C) | BITSTRING | 4 | TMRWBRPW | WBREPCT - No. Repository Writes |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (340) | BITSTRING | 4 | TMRDHCRC | DHCRECT - No. Document Create requests |
| (344) | BITSTRING | 4 | TMRDHINC | DHINSCT - No. Document Insert requests |
| (348) | BITSTRING | 4 | TMRDHSTC | DHSETCT - No. Document Set requests |
| (34C) | BITSTRING | 4 | TMRDHRTC | DHRETCT - No. Document Retrieve requests |
| (350) | BITSTRING | 4 | TMRDHTC | DHTOTCT - Total No. Document requests |
| (354) | BITSTRING | 4 | TMRDHTDL | DHTOTDCL - Total Document Created length |
| (358) | BITSTRING | 4 | TMRSOBEN | SOBYENCT - No. Bytes Encrypted |
| (35C) | BITSTRING | 4 | TMRSOBDE | SOBYDECT - No. Bytes Decrypted |
| (360) | BITSTRING | 4 | TMRIMSRC | IMSREQCT - Total No. IMS requests |
| (364) | BITSTRING | 4 | TMRDB2RC | DB2REQCT - Total No. DB2 requests |
| (368) | BITSTRING | 4 | TMRCHMDC | CHMODECT - No. CICS Dispatcher Change Mode's |
| (36C) | BITSTRING | 4 | TMRTCBAC | TCBATTCT - No. CICS Dispatcher TCB Attach's |
| (370) | BITSTRING | 8 | TMRDIST | USRDISPT - User task Dispatch time |
| (378) | BITSTRING | 8 | TMRCPUT | USRCPUT - User task Cpu time |
| (380) | BITSTRING | 8 | TMRSUST | SUSPTIME - Task Suspend time |
| (388) | BITSTRING | 8 | TMRDWT | DISPWTT - Dispatch Wait time |
| (390) | BITSTRING | 8 | TMRQRDSP | QRDISPT - User task QR Mode Dispatch time |
| (398) | BITSTRING | 8 | TMRQRCPU | QRCPUT - User task QR Mode Cpu time |
| (3A0) | BITSTRING | 8 | TMRMSDSP | MSDISPT - User task Other Mode Dispatch time |
| (3A8) | BITSTRING | 8 | TMRMSCPU | MSCPUT - User task Other Mode Cpu time |
| (3B0) | BITSTRING | 8 | TMRL8CPU | L8CPUT - User task L8 Mode Cpu time |
| (3B8) | BITSTRING | 8 | TMRJ8CPU | J8CPUT - User task J8 Mode Cpu time |
| (3C0) | BITSTRING | 8 | TMR88CPU | S8CPUT - User task S8 Mode Cpu time |
| (3C8) | BITSTRING | 8 | TMRQRDLY | QRMODDLY - QR Mode delay time |
| (3D0) | BITSTRING | 8 | TMRDLY | MAXOTDLY - Max Open TCB delay time |
| (3D8) | BITSTRING | 8 | TMRXWTT | EXWTTIME - Exception wait time |
| (3E0) | BITSTRING | 8 | TMRFCWT | TCIOWTT - TC i/o wait time |
| (3E8) | BITSTRING | 8 | TMRFCWT | FCIOWTT - FC i/o wait time |
| (3F0) | BITSTRING | 8 | TMRJCWT | JCIOWTT - JC i/o wait time |
| (3F8) | BITSTRING | 8 | TMRJ8WTT | TSIOWTT - TS i/o wait time |
| (400) | BITSTRING | 8 | TMRIRWT | IRIOWTT - IR i/o wait time |
| (408) | BITSTRING | 8 | TMRDWT | TDIOWTT - TD i/o wait time |
| (410) | BITSTRING | 8 | TMRPCLT | PCLOADTM - Program load time |
| (418) | BITSTRING | 8 | TMRFDLY | DSPDELAY - 1st Dispatch delay - TCLASS,MXT,etc |
| (420) | BITSTRING | 8 | TMRFDCL | TCLDELAY - 1st Dispatch delay due to TCLASS |
| (428) | BITSTRING | 8 | TMRDMXT | MXTDELAY - 1st Dispatch delay due to MXT |
| (430) | BITSTRING | 8 | TMRNQDLY | ENQDELAY - Local ENQ delay time |
| (438) | BITSTRING | 8 | TMRGQDLY | GNQDELAY - Global ENQ delay time |
| (440) | BITSTRING | 8 | TMR61WTT | LU61WTT - LU61 i/o wait time |
| (448) | BITSTRING | 8 | TMR62WTT | LU62WTT - LU62 i/o wait time |
| (450) | BITSTRING | 8 | TMRSZWT | SZWAIT - FEPI suspend time |
| (458) | BITSTRING | 8 | TMRMIT | RMITIME - Total RMI elapsed time |
| (460) | BITSTRING | 8 | TMRMIS | RMISUSP - Total RMI suspend time |
| (468) | BITSTRING | 8 | TMRSYNCT | SYNCTIME - Syncpoint elapsed time |
| (470) | BITSTRING | 8 | TMRRLSWT | RLSWAIT - RLS wait time |
| (478) | BITSTRING | 8 | TMRRLSCP | RLSCLPUT - RLS SRB CPU time |
| (480) | BITSTRING | 8 | TMRMLDLY | LMDELAY - Lock Mgr delay time |
| (488) | BITSTRING | 8 | TMRWTXWT | WTEXWAIT - Wait External wait time |
| (490) | BITSTRING | 8 | TMRWCEWT | WTCEWAIT - Wait CICS/Event wait time |
| (498) | BITSTRING | 8 | TMRICDLY | ICDELAY - Interval control delay time |
| (4A0) | BITSTRING | 8 | TMRGVPWT | GVUPWAIT - Give up control wait time |
| (4A8) | BITSTRING | 8 | TMRSHWT | TSSHWAIT - Shared TS wait time |
| (4B0) | BITSTRING | 8 | TMRCDTWT | CFDTWAIT - CF Data Table wait time |
| (4B8) | BITSTRING | 8 | TMRSYWTT | SRVSYWTT - Server Syncpoint wait time |
| (4C0) | BITSTRING | 8 | TMRRRSWT | RRMSWAIT - RRMS/MVS wait time |
| (4C8) | BITSTRING | 8 | TMRRTRWT | RUNTRWTT - Run Transaction wait time |
| (4D0) | BITSTRING | 8 | TMRSDLY | SYNCDLY - Syncpoint delay time |
| (4D8) | BITSTRING | 8 | TMR8WTT | SOIOWTT - Socket I/O wait time |
| (4E0) | BITSTRING | 8 | TMRIMSWT | IMSWAIT - IMS wait time |
| (4E8) | BITSTRING | 8 | TMRRDQWT | DB2RDYQW - DB2 Readyq wait time |
| (4F0) | BITSTRING | 8 | TMRCONWT | DB2CONWT - DB2 Connection wait time |
| (4F8) | BITSTRING | 8 | TMRDB2WT | DB2WAIT - DB2 wait time |
| (500) | BITSTRING | 8 | TMRJVMT | JVMTIME - Total JVM elapsed time |
| (508) | BITSTRING | 8 | TMRJVMS | JVMSUSP - Total JVM suspend time |
| (508) | BITSTRING | 8 | MNTCLN | "-MNTLEN" length of DSECT |

MRC Transient data VSAM control

MODULE NAME = DFHMRCPS
 DESCRIPTIVE NAME = Transient Data VSAM Control
 CICS/ESA AP Domain

FUNCTION =
 Copybook DFHMRCPS provides structures, DFHMRCBA and DFHMRCB and DFHMRSB.
 DFHMRCBA describes the String Common Area (MRCA), only one MRCA is allocated.
 DFHMRCB describes the String Control Block (MRCB), one MRCB is allocated for each VSAM string.
 DFHMRSB describes the Segment Descriptor (MRSD), the number of MRSDs allocated depends on the size of the intrapartition data set.

LIFETIME =
 The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =
 The control blocks are located in storage allocated from the DFHTDG31 subpool.
 Note that the number of VSAM strings is defined as a SIT parameter / override.

LOCATION =
 The MRCA is located from the TDST.
 MRCBs, if unallocated, are located on a chain whose anchor is located in the MRCA.
 MRSDs are located on a chain whose anchor is located in the MRCA.
 Note that the update ACB and output ACB are located from the MRCA.
 Note also that the RPL and VSAM Error Message Area (VEMA) are located from the associated MRCB.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 MULTIPLE STRINGS - STRING COMMON AREA (MRCA)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--------------------------|
| (0) | STRUCTURE | 212 | DFHMRCBA | |
| (0) | CHARACTER | 16 | MRCA_PREFIX | prefix |
| (0) | HALFWORD | 2 | MRCA_LENGTH | - length |
| (2) | CHARACTER | 1 | MRCA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MRCA_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MRCA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MRCA_BLOCK | - value - 'MRCA ' |
| (10) | CHARACTER | 4 | MRCA_DFP | DFP release level |
| (10) | BITSTRING | 1 | MRCA_DFP_VR | - version, release |
| (11) | BITSTRING | 1 | MRCA_DFP_M0 | - modification, 0 |
| (12) | BITSTRING | 2 | * | - reserved |
| (14) | CHARACTER | 64 | MRCA_ACB | ACB |
| (14) | CHARACTER | 8 | MRCA_DDNAME | - DDNAME |
| (1C) | CHARACTER | 44 | MRCA_DSNAME | - DSNAME |
| (48) | FULLWORD | 4 | MRCA_STR_N | - #(strings) |
| (4C) | ADDRESS | 4 | MRCA_UACB_P | - A(update ACB) |
| (50) | ADDRESS | 4 | MRCA_OACB_P | - A(output ACB) |
| (54) | CHARACTER | 24 | MRCA_DS | data set |
| (54) | FULLWORD | 4 | MRCA_CL_L | - L(control interval) |
| (58) | FULLWORD | 4 | MRCA_MIN_L | - L(user data) - minimum |
| (5C) | FULLWORD | 4 | MRCA_MAX_L | - L(user data) - maximum |
| (60) | FULLWORD | 4 | MRCA_I_RBA | - initial RBA |
| (64) | FULLWORD | 4 | MRCA_N_RBA | - next RBA |
| (68) | FULLWORD | 4 | MRCA_H_RBA | - high RBA |
| (6C) | CHARACTER | 8 | MRCA_CSM | CI status map |
| (6C) | ADDRESS | 4 | MRCA_MRSD_P | - A(first MRSD) or 0 |
| (70) | FULLWORD | 4 | MRCA_MRSD_N | - #(MRSDs allocated) |
| (74) | CHARACTER | 8 | MRCA_SRC_1 | MRCB allocation chain |
| (74) | ADDRESS | 4 | MRCA_TCA_P | - A(owning TCA) or 0 |
| (78) | ADDRESS | 4 | MRCA_MWCB_P | - A(first MWCB) or 0 |
| (7C) | CHARACTER | 8 | MRCA_SRC_2 | CI formatting chain |
| (7C) | ADDRESS | 4 | * | - A(owning TCA) or 0 |
| (80) | ADDRESS | 4 | * | - A(first MWCB) or 0 |
| (84) | CHARACTER | 4 | MRCAECB | ECB WORD |
| | 1... | | * | - ECB BYTE |
| | .1.. | | MRCACSMI | - CSM BUILD COMPLETE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------|
| (84) | BITSTRING | 2 | * | RESERVED |
| (87) | UNSIGNED | 1 | MRCAERC1 | - RETURN CODE |
| (88) | CHARACTER | 4 | * | MRCA STATUS |
| (88) | CHARACTER | 1 | MRCAFLG0 | - DATASET |
| | 1... .. | | MRCAOPEN | - OPENED |
| | .1. | | MRCAESDS | - VSAM ESDS |
| | .1. | | MRCADDST | - DD STATEMENT |
| | ...1 1111 | | * | - RESERVED |
| (89) | CHARACTER | 1 | MRCAFLG1 | - CONTENTS |
| | 1... .. | | MRCAMPTY | - EMPTY (INITIALLY) |
| | .1. | | MRCAFULL | - FULL |
| | ...1 1111 | | * | - RESERVED |
| (8A) | CHARACTER | 1 | MRCAFLG2 | - CSM INIALIZATION |
| | 1... .. | | MRCACSMR | - REQUIRED |
| | .1. | | MRCACSMP | - IN PROGRESS |
| | ...1 1111 | | MRCACSMC | - COMPLETE |
| | ...1 1111 | | * | - RESERVED |
| (8B) | CHARACTER | 1 | MRCAFLG3 | - RESERVED |
| (8B) | BITSTRING | 1 | * | - RESERVED |
| (8C) | CHARACTER | 16 | * | MRCB CHAIN ANCHORS |
| (8C) | CHARACTER | 8 | MRCACHN1 | - UNALLOCATED CHAIN |
| (8C) | ADDRESS | 4 | MRC AFCN1 | - A(FIRST MRCB) |
| (90) | ADDRESS | 4 | MRC ABCN1 | - A(LAST MRCB) |
| (94) | CHARACTER | 8 | MRCACHNS | - STATIC CHAIN |
| (94) | ADDRESS | 4 | MRC AFCNS | - A(FIRST MRCB) |
| (98) | ADDRESS | 4 | * | - RESERVED |
| (9C) | CHARACTER | 24 | * | MRCB STATISTICS |
| (9C) | CHARACTER | 12 | * | - ALLOCATION REQUESTS |
| (9C) | FULLWORD | 4 | MRCATNAL | - TOTAL |
| (A0) | FULLWORD | 4 | MRCACNAL | - CURRENT CONCURRENT |
| (A4) | FULLWORD | 4 | MRCAMXAL | - MAXIMUM CONCURRENT |
| (A8) | CHARACTER | 12 | * | - QUEUED REQUESTS |
| (A8) | FULLWORD | 4 | MRCATNWT | - TOTAL |
| (AC) | FULLWORD | 4 | MRCACNWT | - CURRENT CONCURRENT |
| (B0) | FULLWORD | 4 | MRCAMXWT | - MAXIMUM CONCURRENT |
| (B4) | CHARACTER | 32 | * | DATASET STATISTICS |
| (B4) | FULLWORD | 4 | MRCANCIS | - CURRENT CIS FORMATTED |
| (B8) | FULLWORD | 4 | MRC ACTCI | - CURRENT CIS ALLOCATED |
| (BC) | FULLWORD | 4 | MRCAMXCI | - MAXIMUM CIS ALLOCATED |
| (C0) | FULLWORD | 4 | MRCANOSP | - NOSPACE RETURNED |
| (C4) | FULLWORD | 4 | MRC ACTPT | - PUT REQUESTS |
| (C8) | FULLWORD | 4 | MRC ACTGT | - GET REQUESTS |
| (CC) | FULLWORD | 4 | MRC ACTFT | - FORMAT REQUESTS |
| (D0) | FULLWORD | 4 | MRC ACTIO | - I/O ERRORS |
| (D4) | CHARACTER | | * | |

MULTIPLE STRINGS - STRING CONTROL BLOCK (MRCB)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|------------------------------|
| (0) | STRUCTURE | 32 | DFHMRCB | |
| (0) | CHARACTER | 16 | * | MRCB chains |
| (0) | ADDRESS | 4 | MRCBFCHN | - A(next inactive MRCB) |
| (4) | ADDRESS | 4 | MRCBBCHN | - A(previous inactive MRCB) |
| (8) | ADDRESS | 4 | MRCBSCHN | - A(next static MRCB) or 0 |
| (C) | ADDRESS | 4 | * | - reserved |
| (10) | CHARACTER | 16 | * | associated control blocks |
| (10) | ADDRESS | 4 | MRCB_RPL_P | - A(RPL) |
| (14) | ADDRESS | 4 | MRCB_VE MA_P | - A(VSAM error message area) |
| (18) | ADDRESS | 4 | MRCB_MBCB_P | - A(MBCB) or 0 |
| (1C) | ADDRESS | 4 | MRCB_MWCB_P | - A(MWCB) or 0 |
| (20) | CHARACTER | | * | |

CI STATUS MAP - SEGMENT DESCRIPTOR (MRSD)

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|-------------------|
| (0) | STRUCTURE | 576 | DFHMRS D | |
| (0) | CHARACTER | 16 | MRSD_PREFIX | prefix |
| (0) | HALFWORD | 2 | MRSD_LENGTH | - length |
| (2) | CHARACTER | 1 | MRSD_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MRSD_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MRSD_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MRSD_BLOCK | - value - 'MRSD ' |
| (10) | CHARACTER | 8 | MRSD_STATS | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--------------------------|
| (10) | FULLWORD | 4 | MRSD_CIS_ ALLOCATED | CIs allocated |
| (14) | FULLWORD | 4 | * | Reserved |
| (18) | CHARACTER | 20 | MRSDPFIX | SEGMENT PREFIX |
| (18) | CHARACTER | 4 | MRSDPFID | - EYE CATCHER |
| (1C) | FULLWORD | 4 | MRSDPFLN | - LENGTH |
| (20) | FULLWORD | 4 | MRSDPFLN | - #(FIRST CI IN SEGMENT) |
| (24) | FULLWORD | 4 | MRSDPFUL | - #(LAST CI IN SEGMENT) |
| (28) | ADDRESS | 4 | MRSDPFCN | - A(NEXT SEGMENT) OR 0 |
| (2C) | CHARACTER | 512 | * | SEGMENT DATA |
| (2C) | CHARACTER | 256 | MRSDSEGM | - MASTER AS SCALAR |
| (2C) | CHARACTER | 1 | MRSDSARM (0 255) | - MASTER AS ARRAY |
| (12C) | CHARACTER | 256 | MRSDSEGB | - BACK-UP AS SCALAR |
| (12C) | CHARACTER | 1 | MRSDSARB (0 255) | - BACK-UP AS ARRAY |
| (22C) | CHARACTER | 20 | MRSDSFIX | SEGMENT SUFFIX |
| (22C) | CHARACTER | 4 | MRSDSFID | - EYE CATCHER |
| (230) | FULLWORD | 4 | MRSDSFLN | - LENGTH |
| (234) | FULLWORD | 4 | MRSDSFLN | - #(FIRST CI IN SEGMENT) |
| (238) | FULLWORD | 4 | MRSDSFUL | - #(LAST CI IN SEGMENT) |
| (23C) | ADDRESS | 4 | MRSDSFCN | - A(NEXT SEGMENT) OR 0 |
| (240) | CHARACTER | | * | |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-------------|-------------|
| 1 | HEX | 21 | MRCA_DFP_21 | - V2 R1 |
| 1 | HEX | 22 | MRCA_DFP_22 | - V2 R2 |
| 1 | HEX | 23 | MRCA_DFP_23 | - V2 R3 |

MWCB Transient data wait control

MODULE NAME = DFHMWCP5
 DESCRIPTIVE NAME = Transient Data Wait Control
 CICS/ESA AP Domain

FUNCTION =
 Copybook DFHMWCP5 provides structure DFHMWCB.
 DFHMWCB describes the Wait Control Block (MWCB),
 a MWCB is allocated on an as required basis.

LIFETIME =
 The lifetime of the control block is essentially
 that of the wait. They are allocated when it is
 necessary to suspend a task and freed when the task is
 resumed.

STORAGE CLASS =
 The control block is located in storage allocated
 from the DFHTDWCB subpool.

LOCATION =
 The MWCB is located from
 1. a DCTE
 2. the MBCA
 3. a MBCB
 2. the MRCA
 3. a MRCB
 depending on the event being waited on.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 MULTIPLE BUFFERS - WAIT CONTROL BLOCK (MWCB)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------------|
| (0) | STRUCTURE | 40 | DFHMWCB | |
| (0) | CHARACTER | 16 | MWCB_PREFIX | prefix |
| (0) | HALFWORD | 2 | MWCB_LENGTH | - length |
| (2) | CHARACTER | 1 | MWCB_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | MWCB_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | MWCB_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | MWCB_BLOCK | - value - 'MWCB ' |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|------------------------|
| (10) | ADDRESS | 4 | MWCB_MWCB_P | A(next MWCB) or 0 |
| (14) | FULLWORD | 4 | MWCB_TASK_TOKEN | - task token |
| (18) | ADDRESS | 4 | MWCB_SR_TOK | - SUSPEND/RESUME token |
| (1C) | CHARACTER | 4 | MWCB_TXN_NUMBER | - Owning txn number |
| (20) | CHARACTER | 4 | * | - reserved |
| (24) | CHARACTER | 4 | * | - reserved |
| (28) | CHARACTER | 4 | * | - reserved |

NCS4D Named counter server cf statistics

CONTROL BLOCK NAME = DFHNCS4D
 DESCRIPTIVE NAME = CICS Named Counter Server List Str Stats
 FUNCTION = NC server list structure usage and access statistics.
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | | | DFHNCS4D | , NC list structure statistics record |
| (0) | FULLWORD | 4 | S4 (0) | Start of record |
| (0) | HALFWORD | 2 | S4LEN | Length of data area |
| | .111 11.. | | S4IDE | "0124" List structure stats mask |
| (2) | ADDRESS | 2 | S4ID | List structure stats id |
| |1 | | S4VERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S4DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |

Coupling facility list structure status information.

| | | | | |
|------|-----------|----|--------------|------------------------------------|
| (8) | CHARACTER | 16 | S4NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S4PREF | First part of structure name |
| (10) | CHARACTER | 8 | S4POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S4CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S4CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S4CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S4SIZE | Structure size (unsigned fullword) |
| (2C) | ADDRESS | 4 | S4SIZEMX | Maximum structure size |

Usage statistics.

Entry usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

| | | | | |
|------|----------|---|----------|----------------------------------|
| (30) | FULLWORD | 4 | S4ENTRCT | Current number of entries in use |
| (34) | FULLWORD | 4 | S4ENTRHI | Highest number of entries in use |
| (38) | FULLWORD | 4 | S4ENTRLO | Lowest number of free entries |
| (3C) | FULLWORD | 4 | S4ENTRMX | Max entries returned by IXLCONN |

Coupling facility I/O statistics.

Statistics for each main type of CF request.

| | | | | |
|------|----------|---|----------|---------------------------|
| (40) | FULLWORD | 4 | S4CRECT | Create counter |
| (44) | FULLWORD | 4 | S4GETCT | Get and increment counter |
| (48) | FULLWORD | 4 | S4SETCT | Set counter |
| (4C) | FULLWORD | 4 | S4DELCT | Delete counter |
| (50) | FULLWORD | 4 | S4KEQCT | Inquire KEQ |
| (54) | FULLWORD | 4 | S4KGETCT | Inquire KGE |

Statistics for internal CF requests.

| | | | | |
|------|----------|---|---------|---------------------------------|
| (58) | FULLWORD | 4 | S4ASYCT | Number of asynchronous requests |
|------|----------|---|---------|---------------------------------|

IXLLIST completion statistics indexed by internal response value.

| | | | | |
|------|-----------|---|----------|--|
| (5C) | FULLWORD | 4 | S4RSP1CT | Normal response, everything OK |
| (60) | FULLWORD | 4 | S4RSP2CT | No matching entry was found |
| (64) | FULLWORD | 4 | S4RSP3CT | Entry version did not match |
| (68) | FULLWORD | 4 | S4RSP4CT | List authority comparison mismatch |
| (6C) | FULLWORD | 4 | S4RSP5CT | The list structure is out of space |
| (70) | FULLWORD | 4 | S4RSP6CT | An IXLLIST return code occurred other than those described above |
| | .111 .1.. | | S4END | "**" |
| | .111 .1.. | | S4CLEN | "*-S4LEN" Length of this DSECT |

NCS5D Named counter server storage statistics

CONTROL BLOCK NAME = DFHNCS5D
 DESCRIPTIVE NAME = CICS Named Counter Server Storage Statistics
 FUNCTION = Statistics for named counter server main storage usage.
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHNCS5D | , NC server main storage statistics |
| (0) | FULLWORD | 4 | S5 (0) | Start of record |
| (0) | ADDRESS | 2 | S5LEN | Length of data area |
| | .111 11.1 | | S5IDE | "0125" NC server main storage stats mask |
| (2) | ADDRESS | 2 | S5ID | NC server main storage stats id |
| |1 | | S5VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S5DVERS | NC server main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.
 Statistics for LOC=ANY storage pool.

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (8) | CHARACTER | 8 | S5ANYNAM | Pool name AXMPGANY |
| (10) | FULLWORD | 4 | S5ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S5ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S5ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S5ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S5ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S5ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S5ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S5ANYRQF | Gets which failed to obtain storage |
| (30) | FULLWORD | 4 | S5ANYRQS | Storage FREE requests |
| (34) | FULLWORD | 4 | S5ANYRQC | Compress (defragmentation) attempts |

Statistics for LOC=BELOW storage pool.

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (38) | CHARACTER | 8 | S5LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S5LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S5LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S5LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S5LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S5LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S5LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S5LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S5LOWRQF | Gets which failed to obtain storage |
| (60) | FULLWORD | 4 | S5LOWRQS | Storage FREE requests |
| (64) | FULLWORD | 4 | S5LOWRQC | Compress (defragmentation) attempts |
| | .11. 1... | | S5END | *** |
| | .11. 1... | | S5CLEN | **S5LEN" Length of this DSECT |

NEPCA Node error program commarea

MACRO NAME = DFHNEPCA
 DESCRIPTIVE NAME = CICS DFHZNEP - Node Error Program
 Commarea Mapper and Descriptor
 FUNCTION =
 This macro provides a DSECT description and a storage
 mapper for the NEP COMMAREA
 NOTES
 DEPENDENCIES = S/370
 RESTRICTIONS =
 See OPERANDS sections
 MODULE TYPE = Executable macro

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| | | | DFHNEPCA | |
| Invocation descriptor. - COMMAREA for the NEP user replaceable module | | | | |
| These fields are READ ONLY | | | | |
| (0) | BITSTRING | 158 | NEPCABEG (0) | |
| (0) | BITSTRING | 4 | NEPCAHDR (0) | Invocation descriptor |
| (0) | BITSTRING | 1 | NEPCAFNC | Local descriptor |
| (1) | BITSTRING | 2 | NEPCACMP | Global descriptor |
| (3) | BITSTRING | 1 | | Reserved |
| Identity of terminal and the error code associated with it These fields are READ ONLY | | | | |
| (4) | BITSTRING | 1 | TWAEC | Error Code |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 4 | TWANID | Terminal identity |
| (C) | CHARACTER | 8 | TWANETN | Netname |
| Action bytes. Initially set to the default actions. User can change these default actions. | | | | |
| (14) | BITSTRING | 4 | TWAROPTL (0) | Reserved |
| (14) | BITSTRING | 3 | TWAOPTL (0) | User option bytes |
| (14) | BITSTRING | 1 | TWAROPT1 (0) | User option byte 1 |
| (14) | BITSTRING | 1 | TWAOPT1 | User option byte 1 |
| | 1... .. | | TWAOAF | "X'80" Print action flags |
| | .1. | | TWAORPL | "X'40" Print VTAM RPL |
| | ..1. | | TWAOTCTE | "X'20" Print TCTTE |
| | ...1 | | TWAOTIOA | "X'10" Print TIOA |
| | 1... | | TWAOBIND | "X'08" Print BIND area |
| |1.. | | TWAOBNTA | "X'04" System dump if no task attached |
| (15) | BITSTRING | 1 | TWAROPT2 (0) | User option byte 2 |
| (15) | BITSTRING | 1 | TWAOPT2 | User option byte 2 |
| | 1... .. | | TWAOAS | "X'80" Abort any send for this terminal |
| | .1. | | TWAOAR | "X'40" Abort any receive for " |
| | ..1. | | TWAOAT | "X'20" Abend any task attached to TCTTE |
| | ...1 | | TWAOCT | "X'10" Cancel any task att to TCTTE |
| | 1... | | TWAOGMM | "X'08" Good Morning message to be sent |
| |1.. | | TWAOBPP | "X'04" Purge any BMS pages for this TCTTE |
| |1. | | TWAOASM | "X'02" SIMLOGON required |
| (16) | BITSTRING | 1 | TWAROPT3 (0) | User option byte 3 |
| (16) | BITSTRING | 1 | TWAOPT3 | User option byte 3 |
| | 1... .. | | TWAOINT | "X'80" Set INTLOG now allowed |
| | .1. | | TWAOININT | "X'40" Set no internal gen logons |
| | ...1 | | TWAOONCN | "X'10" Normal CLSDST (no reset allowed) |
| | 1... | | TWAOOSCN | "X'08" Normal CLSDST (reset allowed) |
| |1.. | | TWAOONEGR | "X'04" Send negative response |
| |1. | | TWAOOS | "X'02" Keep node out of service |
| |1 | | TWAOON | "X'01" CLSDST node |
| (17) | BITSTRING | 1 | | Reserved |
| Any VTAM sense and RPL codes These fields are READ ONLY | | | | |
| (18) | BITSTRING | 12 | TWAVTAM (0) | VTAM information |
| (18) | HALFWORD | 2 | TWARPLCD | VTAM RPL feedback codes |
| (1A) | HALFWORD | 2 | | Reserved |
| (1C) | FULLWORD | 4 | TWASENSS (0) | Sense codes to be sent |
| (1C) | BITSTRING | 1 | TWASS1 | System sense byte No 1 |
| (1D) | BITSTRING | 1 | TWASS2 | System sense byte No 2 |
| (1E) | BITSTRING | 1 | TWAUS1 | User sense byte No 1 |
| (1F) | BITSTRING | 1 | TWAUS2 | User sense byte No 2 |
| (20) | FULLWORD | 4 | TWASENSR (0) | Sense codes received |
| (20) | BITSTRING | 1 | TWASR1 | System sense byte No 1 |
| (21) | BITSTRING | 1 | TWASR2 | System sense byte No 2 |
| (22) | BITSTRING | 1 | TWAUR1 | User sense byte No 1 |
| (23) | BITSTRING | 1 | TWAUR2 | User sense byte No 2 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------|--|
| Other useful information for NEP | | | | |
| With the exception of TWANLD, TWANL DL & TWANPFW these fields are READ ONLY | | | | |
| (24) | BITSTRING | 22 | TWAADINF (0) | |
| (24) | FULLWORD | 4 | | Reserved |
| (28) | BITSTRING | 1 | TWACTLB | General use control byte |
| | ..1. | | TWACSC | "X'20" Clear sense code indicator |
| | ...1 | | TWAPSC | "X'10" Print VTAM sense codes |
| | 1... | | TWATIOA | "X'08" Print portion of I/O area |
| |1. | | TWAVTRTC | "X'02" VTAM return code available |
| (29) | BITSTRING | 1 | TWANEP R | NEP return code byte |
| | 1... | | TWANPFW | "X'80" Retry write with FORCE=YES |
| (2A) | BITSTRING | 1 | TWAREASN | VTAM reason code |
| (2B) | BITSTRING | 1 | TWASTAT | VTAM status code |
| (2A) | BITSTRING | 1 | TWATRSN | CICS Terminal Control terminal error reason code |
| (2C) | HALFWORD | 2 | TWAXRSN | Exception response seq number recd |
| | ..1. 111. | | TWAR | *** |
| (2E) | BITSTRING | 1 | TWAPFLG | CLSDST Pass flag |
| | 1... | | TWAPIP | "X'80" CLSDST Pass in progress |
| (2F) | BITSTRING | 1 | TWANEP C | NEP Class Flag |
| (30) | BITSTRING | 1 | TWAEISAB | Stand alone begin bracket indicator |
| |1. | | TWAE S AB | "X'04" Stand alone begin bracket |
| (31) | BITSTRING | 3 | | Reserved |
| (34) | ADDRESS | 4 | TWANLD | NEP data pointers |
| (38) | HALFWORD | 2 | TWANL DL | Length of NEP data |
| Additional system parameters | | | | |
| With the exception of TWAPNETN, TWAPNTID & TWAUPRR C these fields are READ ONLY | | | | |
| (3C) | FULLWORD | 4 | (0) | |
| (3C) | BITSTRING | 68 | TWASYS PM (0) | |
| (3C) | ADDRESS | 4 | TWATCTA | Address of TCTTE being processed |
| (40) | ADDRESS | 4 | TWARPL | Address of VTAM RPL |
| (44) | ADDRESS | 4 | TWATIOAA | Address of data portion of TIOA |
| (48) | HALFWORD | 2 | TWATIOAL | Length of data portion of TIOA |
| (4A) | HALFWORD | 2 | TWACOMML | Length of commarea data for TCTTE |
| (4C) | CHARACTER | 4 | TWACOMMA | Address of commarea data for TCTTE |
| (50) | ADDRESS | 4 | TWATECIA | Address of TCTTE USER AREA |
| (54) | HALFWORD | 2 | TWATECIL | Length of TCTTE USER AREA |
| (56) | CHARACTER | 8 | TWAPPNTN | primary 3270 printer netname |
| (5E) | CHARACTER | 4 | TWAPPTID | primary 3270 printer termid |
| (62) | BITSTRING | 1 | TWAPPELG | primary printer eligible indicator |
| |1 | | TWAPPELY | "X'01" primary printer is eligible flag |
| (63) | CHARACTER | 8 | TWASPNTN | secondary 3270 printer netname |
| (6B) | CHARACTER | 4 | TWASPTID | secondary 3270 printer termid |
| (6F) | BITSTRING | 1 | TWASPELG | secondary printer eligible indicator |
| |1 | | TWASPELY | "X'01" secondary printer is eligible flag |
| (70) | CHARACTER | 8 | TWAPNETN | selected 3270 printer netname |
| (78) | CHARACTER | 4 | TWAPNTID | selected 3270 printer termid |
| (7C) | BITSTRING | 1 | TWAUPRR C | Unavailable Printer rtn return code |
|  | .... .... |  | TWAUPRNP | "X'00" No printer selected |
| |1 | | TWAUPRPS | "X'01" printer selected |
| | 1111 1111 | | TWAUPRDD | "X'FF" data disposal complete |
| | 1111 111. | | TWAUPRPE | "X'FE" Error on Put request |
| (7D) | BITSTRING | 1 | TWAERRF1 | Error flag byte 1 |
| | 1... | | TWALXS | "X'80" Logon crossed simlogon |
| (7E) | BITSTRING | 2 | | reserved |
| XRF recovery notification data | | | | |
| User can change these default actions | | | | |
| (80) | BITSTRING | 1 | TWAXRNOT | Recovery Notification Options |
| | 1... | | TWAXRNON | "X'80" Recov Notification = None |
| | ..1. | | TWAXRMSG | "X'40" Recov Notification = Message |
| | ..1. | | TWAXRTRN | "X'20" Recov Notification = Transact. |
| (81) | BITSTRING | 3 | | Reserved |
| (84) | CHARACTER | 8 | TWAXMSTN | Recovery Mapset Name |
| (8C) | CHARACTER | 8 | TWAXMAPN | Recovery Map Name |
| (94) | CHARACTER | 4 | TWAXTRAN | Recovery Transaction ID |
| Additional system parameters | | | | |
| (98) | ADDRESS | 4 | TWACINIT | CINIT RU Address |
| (9C) | BITSTRING | 2 | TWACINIL | CINIT RU Length |
| | 1..1 111. | | NEPCALEN | "*-NEPCABEG" Length of this DSECT |

NQG Enqueue manager global statistics

CONTROL BLOCK NAME = DFHNQGDS
 DESCRIPTIVE NAME = CICS Enqueue Manager Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains global statistics provided by the Enqueue Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Enqueue Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from enqueue manager domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHNQGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | | DFHNQGDS | Enqueue Manager Global statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | NQGLEN | Length of data area |
| | .11. ...1 | | NQGIDE | "0097" Enqueue Manager statistics id mask |
| (2) | ADDRESS | 2 | NQGID | Enqueue Manager statistics id |
| |1 | | NQGVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | NQGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | NQGNPOOL | Number of ENQ pools following |
| | 11.. | | NQGGEND | "" End of global portion |
| | 11.. | | NQGGLEN | ""-DFHNQGDS" Length of global portion |

The following dsect is repeated for each ENQ pool. The number of repetitions of the NQGBODY dsect is in NQGNPOOL.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | | | NQGBODY | Individual ENQ pool statistics |
| (0) | CHARACTER | 8 | NQGPPOOL | ENQ pool id |
| (8) | FULLWORD | 4 | NQGTNQSI | Total enqueues issued |
| (C) | FULLWORD | 4 | NQGTNQSW | Total enqueues waited |
| (10) | CHARACTER | 8 | NQGTNQWT | Time enqueues had waited (STCK) |
| (18) | FULLWORD | 4 | NQGCNQSW | Current enqueues waiting |
| (1C) | CHARACTER | 8 | NQGCNQWT | Current enqueues waiting time (STCK) |
| (24) | FULLWORD | 4 | NQGGNQSW | Total sysplex ENQs waited |
| (28) | CHARACTER | 8 | NQGGNQWT | Time sysplex ENQs had waited (STCK) |
| (30) | FULLWORD | 4 | NQGSNQSW | Current sysplex ENQs waiting |
| (34) | CHARACTER | 8 | NQGSNQWT | Current sysplex ENQs wait time (STCK) |

The following fields show the enqueue retention activity.

| | | | | |
|------|-----------|---|----------|---------------------------------------|
| (3C) | FULLWORD | 4 | NQGTNQSR | Total enqueues that were retained |
| (40) | CHARACTER | 8 | NQGTNQRT | Time enqueues were retained (STCK) |
| (48) | FULLWORD | 4 | NQGCNQSR | Current enqueues retained |
| (4C) | CHARACTER | 8 | NQGCNQRT | Current enqueues retained time (STCK) |

The following fields show a breakdown of the possible reasons of why requests for ENQs may not have been successful.

| | | | | |
|------|----------|---|----------|---------------------------------------|
| (54) | FULLWORD | 4 | NQGTIRJB | Total immed. rejected ENQBUSY |
| (58) | FULLWORD | 4 | NQGTIRJR | Total immed. rejected ENQ retained |
| (5C) | FULLWORD | 4 | NQGTWRJR | Total waiting ENQs rejected retained |
| (60) | FULLWORD | 4 | NQGTWPOP | Total waiting ENQs purged by operator |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (64) | FULLWORD | 4 | NQGTWPTO | Total waiting ENQs purged by timeout |
| | .11. 1... | | NQGBEND | "" End of individual ENQ pool stats |
| | .11. 1... | | NQGBLEN | ""-NQGBODY" Length of body |

NQUE Enq/deq EXEC parameter list

CONTROL BLOCK NAME = DFHNQUEC
DESCRIPTIVE NAME = CICS EXEC argument list for ENQ/DEQ
user exits.

Although provided in a general library, DFHNQUEC is not
to be used as a general programming interface. Refer to
product documentation to determine intended usage.

The following fields are part of the Product-sensitive
Programming Interface.

NQ_ADDR0
NQ_ADDR1
NQ_ADDR2
NQ_ADDR3
NQ_GROUP
NQ_FUNCT
NQ_BITS1
NQ_BITS2
NQ_EIDOPT5
NQ_EIDOPT6
NQ_EIDOPT7
NQ_EIDOPT8
NQ_ENQ
NQ_DEQ
NQ_RESOURCE
NQ_LENGTH
NQ_MAXLIFETIME

All equates for values of EIBRCODE, EIBRESP and EIBRESP2
form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter
List are product sensitive and may vary between CICS
releases.

FUNCTION =

To define the EXEC parameter list for ENQ/DEQ
requests, for use by global user exit programs at exit
points XNQEREQ and XNQEREQC.
On entry to the XNQEREQ and XNQEREQC User Exits, the EXEC
parameter list is pointed to by UEPCLPS.

The EXEC parameter list for ENQ/DEQ consists of four
addresses.

The four addresses are defined by NQ_ADDR0 to NQ_ADDR3.

This DSECT defines these addresses and the areas that
they point to.

On entry to the XNQEREQ and XNQEREQC User Exits, the copy
of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
is pointed to by UEPRESP and the copy of EIBRESP2 is
pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,
EIBRESP and EIBRESP2 used by ENQ/DEQ.

LIFETIME = Lifetime of the NQ command request
STORAGE CLASS = As the storage being mapped is the translated
source in the user's application program, the
storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.

(2) Fields copied from the EIB are addressed by
UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between
XNQEREQ and XNQEREQC is addressed by UEPNQOTOK.

INNER CONTROL BLOCKS =

NQ_ADDR_LIST declares the EXEC addresses.

NQ_EID defines the EID pointed to by NQ_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses
which reference the argument values for this EXEC CICS
command. The addresses are only valid if the argument is
applicable to this command.

The existence bits in the EID component (NQ_BITS1) specify
those addresses that are valid, and the flagword bits
(NQ_EIDOPT5 - NQ_EIDOPT7) specify the keywords that were given
in the EXEC CICS command.

Therefore, you can deduce the usage of each address by testing
these bits in conjunction with the command function(NQ_FUNCT).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--------------------------|
| (0) | STRUCTURE | 16 | NQ_ADDR_LIST | NQ_ADDR_LIST consists of |
| (0) | ADDRESS | 4 | NQ_ADDR0 | the EID |
| (4) | ADDRESS | 4 | NQ_ADDR1 | RESOURCE |
| (8) | ADDRESS | 4 | NQ_ADDR2 | LENGTH |
| (C) | ADDRESS | 4 | NQ_ADDR3 | MAXLIFETIME |

NQ_EID (addressed by NQ_ADDR0) gives the command function, and contains the existence and flagword bits.
Note: Equates for NQ_GROUP, NQ_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 8 | NQ_EID | |
| (0) | CHARACTER | 1 | NQ_GROUP | '12'X for ENQ/DEQ |
| (1) | CHARACTER | 1 | NQ_FUNCT | '04'X for ENQ |

'06'X for DEQ

The existence bits (NQ_BITS1) specify the parameters that are valid for this command.
For example, NQ_EXIST2 set on indicates that NQ_ADDR2 is valid, meaning that it addresses a LENGTH value.
NQ_ADDR0 is always valid and has no existence bit.

| | | | | |
|-----|-----------|---|------------------|----------|
| (2) | BITSTRING | 1 | NQ_BITS1 | |
| | 1... .. | | NQ_EXIST1 | |
| | 1... .. | | NQ_RESOURCE_V | |
| | .1.. .. | | NQ_EXIST2 | |
| | .1.. .. | | NQ_LENGTH_V | |
| | ..1. | | NQ_EXIST3 | |
| | ..1. | | NQ_MAXLIFETIME_V | |
| | ...1 1111 | | * | Reserved |
| (3) | BITSTRING | 2 | * | Reserved |

The next 3 bytes (NQ_EIDOPT5 - NQ_EIDOPT7) are the flagword bits.
A user exit program at XNQREQ can set the NQ_NOSUSPEND_X bit for an ENQ command.

| | | | | |
|-----|-----------|---|----------------|----------------------|
| (5) | BITSTRING | 1 | NQ_EIDOPT5 | |
| (5) | BITSTRING | 1 | * | Reserved |
| (6) | BITSTRING | 1 | NQ_EIDOPT6 | |
| (6) | BITSTRING | 1 | * | Reserved |
| (7) | BITSTRING | 1 | NQ_EIDOPT7 | |
| | 1111 1... | | * | Reserved |
| |1.. | | NQ_NOSUSPEND_X | NOSUSPEND specified. |
| |11 | | * | Reserved |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by NQ_ADDR1 - NQ_ADDR3 in NQ_ADDR_LIST.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--------------|
| (0) | STRUCTURE | * | NQ_DATA1 | |
| (0) | CHARACTER | * | NQ_RESOURCE | the RESOURCE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 2 | NQ_DATA2 | |
| (0) | HALFWORD | 2 | NQ_LENGTH | the LENGTH |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|-----------------|
| (0) | STRUCTURE | 4 | NQ_DATA3 | |
| (0) | FULLWORD | 4 | NQ_MAXLIFETIME | the MAXLIFETIME |

Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------|---|
| 1 | HEX | 12 | NQ_ENQDEQ_GROUP | |
| Equates for NQ_FUNCT values. | | | | |
| 1 | HEX | 04 | NQ_ENQ | Enq |
| 1 | HEX | 06 | NQ_DEQ | Deq |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Enq/Deq. | | | | |
| 1 | HEX | 00 | NQ_OK_EIBRCODE | |
| 1 | HEX | E0 | NQ_INVREQ_EIBRCODE | |
| 1 | HEX | E1 | NQ LENGERR_EIBRCODE | |
| 1 | HEX | 32 | NQ_ENQBUSY_EIBRCODE | |
| Equates for EIBRESP values used by Enq/Deq. | | | | |
| 1 | DECIMAL | 0 | NQ_OK_EIBRESP | |
| 1 | DECIMAL | 16 | NQ_INVREQ_EIBRESP | |
| 1 | DECIMAL | 22 | NQ LENGERR_EIBRESP | |
| 1 | DECIMAL | 55 | NQ_ENQBUSY_EIBRESP | |
| Equates for EIBRESP2 values used by Enq/Deq | | | | |
| 1 | DECIMAL | 0 | NQ_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 1 | NQ LENGERR_EIBRESP2 | LENGERR |
| 1 | DECIMAL | 2 | NQ_INVREQ_EIBRESP2 | INVREQ *-* End of General Use *-*-*-*-* Programming Interface *-* *-*-*-*-*-*-*-*-*-* |

OSPWA BMS work area

```

MODULE NAME = DFHOSPWA
DESCRIPTIVE NAME = CICS BMS WORK AREA
FUNCTION = DEFINE THE MAJOR BMS CONTROL BLOCK. THIS IS CHAINED
           OFF THE TCA SYSTEM AREA. IT IS BUILT BY DFHMCP ON
           THE FIRST BMS REQUEST IN A TRANSACTION, AND IS FREED
           AT TASK TERMINATION. LARGE PARTS OF THE OSPWA ARE
           CLEARED BY DFHMCP ON SEND PAGE.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
REGISTER CONVENTIONS = SEE COMMENTS IN CODE
PATCH LABEL = NONE
MODULE TYPE = DSECT
MODULE SIZE = NOT APPLICABLE
ATTRIBUTES = DSECT
ENTRY POINT = NOT APPLICABLE
PURPOSE = SEE FUNCTION
LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NOT APPLICABLE
CONTROL BLOCKS = NOT APPLICABLE
TABLES = NOT APPLICABLE
MACROS = NONE
           OUTPUT SERVICES PROCESSOR WORK AREA (OSPWA)
           BASIC MAPPING SUPPORT WORK AREA
           THE OSPWA IS USED BY ALL BMS ROUTINES TO TRANSMIT DATA
           BETWEEN ROUTINES AND ACROSS BMS CALLS.
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|--------------------------------|-----------|-----|--------------|---|
| (0) | | | DFHOSPWA | DUMMY SECTION - BMS WORK AREA |
| (0) | DBL WORD | 8 | OSPSAAP | STORAGE ACCOUNTING INFORMATION STORAGE CLASS=USER |
| | 1... | | OSPSTART | *** OSPWA START |
| (8) | CHARACTER | 8 | OSPCBID | OSPWA SELF IDENTIFICATION. SET TO 'DFHOSPWA' WHEN OSPWA CREATED |
| | ...1 | | OSPSTR1 | *** OSPWA START |
| REGISTER SAVE AREAS - PART ONE | | | | |
| (10) | FULLWORD | 4 | OSPRLRSA (2) | ROUTE LIST RESOLUTION SAVE AREA |
| (18) | FULLWORD | 4 | OSPMAPSA (2) | MAPPING SAVE AREA |
| | ...1 1... | | OSPIIPSA | "OSPMAPSA" INPUT MAPPING SAVE AREA |
| (20) | FULLWORD | 4 | OSPFFSA (2) | PAGE FORMATTING SAVE AREA |
| (28) | FULLWORD | 4 | OSPDSSBA (2) | DATA STREAM BUILD SAVE AREA |
| (30) | FULLWORD | 4 | OSPTPPSA (2) | TERMINAL PAGE PROCESSOR SAVE AREA |
| (38) | FULLWORD | 4 | OSPTPRS1 (2) | DFHTPR REGISTER SAVE AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (40) | FULLWORD | 4 | OSPTPRS2 (2) | DFHTPR REGISTER SAVE AREA |
| (20) | FULLWORD | 4 | OSPTPRS3 | DFHTPR REGISTER SAVE AREA |
| (24) | FULLWORD | 4 | OSPTPRS4 | DFHTPR REGISTER SAVE AREA |
| (28) | FULLWORD | 4 | OSPTPRS5 | DFHTPR REGISTER SAVE AREA |
| (2C) | FULLWORD | 4 | OSPTPRS6 | DFHTPR REGISTER SAVE AREA |
| SAVE AREAS FOR R14 TO GIVE RLR CALLING PROCEDURE CONSISTENCY | | | | |
| (28) | FULLWORD | 4 | OSPLIS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLOCID |
| (2C) | FULLWORD | 4 | OSPINS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLNIT |
| (30) | FULLWORD | 4 | OSPBS14 | SAVE AREA FOR RETURN REGISTER FOR RLRLBLD |
| (48) | FULLWORD | 4 | (2) | RESERVED |
| DATA SAVED FROM TCA REQUEST AREA | | | | |
| (50) | BITSTRING | 1 | OSPSVDTA | *** BMS REQUEST DATA FROM TCA |
| | .1.. | | OSPTR1 | TYPE OF REQUEST BYTE 1 |
| | 1... | | OSPTRR | "X'80" TYPE = ROUTE |
| | .1.. | | OSPREO | "X'40" ERRTERM = ORIG |
| | .1.. | | OSPRTI | "X'20" ERRTERM = TERMINAL ID |
| | ...1 | | OSPRI | "X'10" INTRVAL = NUMERIC VALUE |
| | 1... | | OSPRT | "X'08" TIME = NUMERIC VALUE |
| |1.. | | OSPRA | "X'04" LIST = ALL |
| |1.. | | OSPRLSA | "X'02" LIST = SYMBOLIC ADDRESS |
| |1 | | OSPROC | "X'01" OPCLASS = OPERATOR CLASS |
| (51) | BITSTRING | 1 | OSPTR2 | TYPE OF REQUEST BYTE 2 |
| | 1... | | OSPRTL | "X'80" TITLE = SYMBOLIC ADDRESS |
| | .1.. | | OSPLOPT | "X'40" PROPT = NLEOM |
| | .1.. | | OSPRQI | "X'20" REQID = ALPHANUMERIC VALUE |
| | ...1 | | OSPTLD | "X'10" LDC = MNEMONIC OR YES |
| | 1... | | OSPIOT | "X'08" IOTYPE = IMMED |
| |1.. | | OSPLPS | "X'04" SEND PARTNSET |
| |1.. | | OSPRIN | "X'02" RECV INTO EXEC COMMAND |
| |1 | | OSPTRG | "X'01" TYPE = PURGE |
| (52) | BITSTRING | 1 | OSPTR3 | TYPE OF REQUEST BYTE 3 |
| | 1... | | OSPTLST | "X'80" TYPE = LAST |
| | .1.. | | OSPRPR | "X'40" RECEIVE PARTITION |
| | .1.. | | OSPTRT | "X'20" TYPE=TEXT ON INPUT MAPPING |
| | .1.. | | OSPHON | "X'20" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY) |
| | ...1 | | OSPTC | "X'10" CURSOR = NUMBER |
| | 1... | | OSPTCWCC | "X'08" CTRL = ANY 3270 WRITE CONTROL CHARACTER |
| |1.. | | OSPTMN | "X'04" MAP = MAP NAME |
| |1.. | | OSPTSA | "X'02" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS |
| |1 | | OSPTSN | "X'01" MAPSET = MAP SET NAME |
| (53) | BITSTRING | 1 | OSPTR4 | TYPE OF REQUEST BYTE 4 |
| | 11.. | | OSPTDY | "X'C0" DATA = YES |
| | .1.. | | OSPTDN | "X'40" DATA = NO |
| | .1.. | | OSPTRS | "X'20" TYPE = SAVE |
| | ...1 | | OSPTMA | "X'10" MAPADR = SYMBOLIC ADDRESS |
| | 1... | | OSPTRW | "X'08" TYPE = WAIT |
| |1.. | | OSPTRM | "X'04" TYPE = MAP |
| |1.. | | OSPTRF | "X'02" TYPE = ERASE |
| |1 | | OSPTRI | "X'01" TYPE = IN |
| (54) | BITSTRING | 1 | OSPTR5 | TYPE REQUEST BYTE 5 |
| | 1... | | OSPTRB | "X'80" TYPE = PAGEBLD |
| | .1.. | | OSPTOF | "X'40" OFLOW = SYMBOLIC ADDRESS |
| | .1.. | | OSPTEU | "X'20" TYPE = ERASEAUP |
| | ...1 | | OSPTFF | "X'10" TYPE = FORMFEED |
| | 1... | | OSPTRLOC | "X'08" TYPE = LOCATE_MAP |
| |1.. | | OSPTR0 | "X'04" TYPE = OUT |
| |1.. | | OSPTRF | "X'02" TYPE = STORE |
| |1 | | OSPTRU | "X'01" TYPE = RETURN |
| (55) | BITSTRING | 1 | OSPTR6 | TYPE REQUEST BYTE 6 |
| | 1... | | OSPTRP | "X'80" TYPE = PAGEOUT |
| | .1.. | | OSPTCAPG | "X'40" CTRL = AUTOPAGE |
| | .1.. | | OSPTCPG | "X'20" CTRL = PAGE |
| | ...1 | | OSPTCRET | "X'10" CTRL = RETAIN |
| | 1... | | OSPTCREL | "X'08" CTRL = RELEASE |
| |1.. | | OSPTWBC | "X'04" WTBK = CURRENT |
| |1.. | | OSPTWBA | "X'02" WTBK = ALL |
| |1 | | OSPEODOP | "X'01" EODPURG=OPER |
| (56) | BITSTRING | 1 | OSPTR7 | TYPE REQUEST BYTE 7 |
| | 1... | | OSPTRX | "X'80" TYPE = TEXTBLD |
| | .1.. | | OSPTHDR | "X'40" HEADER = SYMBOLIC ADDRESS |
| | .1.. | | OSPTRL | "X'20" TRAILER = SYMBOLIC ADDRESS |
| | ...1 | | OSPJUST | "X'10" JUSTIFY = FIRST, LAST, OR VALUE |
| | 1... | | OSPOPRT | "X'08" API SPECIFIES OUTPARTN |
| |1.. | | OSPAPRT | "X'04" API SPECIFIES ACTPARTN |
| |1.. | | OSPPGAS | "X'02" PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET |
| |1 | | OSPTRN | "X'01" TYPE = NOEDIT |
| (57) | BITSTRING | 1 | OSPTR8 | TYPE REQUEST BYTE 8 |
| | 1... | | OSPIPRM | "X'80" API SPECIFIES INPARTN |
| | .1.. | | OSPMGM | "X'40" MSR SPECIFIED ON API |
| | .1.. | | OSPEIC | "X'20" EXEC INTERFACE COMMAND |
| | ...1 | | OSPTFP | "X'10" FMHPARM = YES OR PARM |
| | 1... | | OSPRDA | "X'08" RDATT = SYMBOLIC ADDRESS |
| |1.. | | OSPWRB | "X'04" WRBRK = SYMBOLIC ADDRESS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|---|
| |1. | | OSPSIG | "X'02" SIGNAL = SYMBOLIC ADDRESS |
| |1 | | OSPMGC | "X'01" SEND CONTROL SPECIFIED |
| | ..1. 1... | | OSPTREND | "" END REQUEST BYTE INFORMATION |
| | 1... | | OSPTREND | "OSPTREND-OSPSVDTA" REQUEST BYTES' LENGTH |
| (58) | ADDRESS | 4 | OSPTA (0) | TITLE ADDRESS |
| (58) | CHARACTER | 4 | OSPTRMID (0) | TERMINAL ID FOR PURGE |
| (58) | ADDRESS | 4 | OSPFOA | ALTERNATE I/O AREA ADDRESS |
| (5C) | CHARACTER | 4 | OSPFSC (0) | FIELD SEPARATOR CHARACTERS |
| (5C) | CHARACTER | 1 | OSPWCC | WRITE CONTROL CHARACTER |
| (5D) | BITSTRING | 1 | OSPJFLV | JUSTIFY = FIRST, LAST, OR VALUE |
| | 1111 1111 | | OSPJF | "X'FF" JUSTIFY = FIRST |
| | 1111 111. | | OSPJL | "X'FE" JUSTIFY = LAST |
| (5E) | HALFWORD | 2 | OSPRPL (0) | RECEIVE PARTN LENGTH VALUE |
| (5E) | HALFWORD | 2 | OSPCP | CURSOR POSITION |
| (60) | ADDRESS | 4 | OSPMA (0) | MAP ADDRESS |
| (60) | CHARACTER | 8 | OSPMN (0) | MAP NAME |
| (60) | CHARACTER | 8 | OSPMSN (0) | PARTITION SET NAME |
| (60) | CHARACTER | 8 | OSPMCRID (0) | MCR TS DATA ID FOR PURGE |
| (60) | ADDRESS | 4 | OSPHDRA (0) | HEADER ADDRESS |
| (60) | ADDRESS | 4 | OSPRLA | ROUTE OR RETURNED PAGE LIST ADDRESS |
| (64) | ADDRESS | 4 | OSPTRLA (0) | TRAILER ADDRESS |
| (64) | | 4 | OSPRTI | TIME OR INTERVAL FOR TYPE=ROUTE |
| (68) | ADDRESS | 4 | OSPMSA (0) | MAP SET OR PARTNSET ADDRESS |
| (68) | CHARACTER | 8 | OSPMSN (0) | MAP SET NAME |
| (68) | CHARACTER | 4 | OSPRTID | ROUTE ERROR TERMINAL ID |
| (6C) | BITSTRING | 1 | OSPFLAG | PROGRAM SWITCH TPP/TPR |
| (6D) | CHARACTER | 3 | OSPOC | OPERATOR CLASS |
| (70) | CHARACTER | 2 | OSPLDM | LDC OR OUTPARTN LDC MNEMONIC IF LDC ON API, OR OUTPARTN NAME IF LDC NOT ON API AND SEND REQUEST, OR INPARTN IF RECEIVE MAP, OR PARTN IF RECEIVE PARTN |
| (72) | BITSTRING | 1 | OSPLDC | LDC CODE |
| (73) | CHARACTER | 2 | OSPREQID | TEMPORARY STORAGE RECOVERY PREFIX |
| (75) | CHARACTER | 2 | OSPAPNM | ACTPARTN NAME |
| (77) | CHARACTER | 1 | OSPAPID | ACTPARTN PID |
| (78) | CHARACTER | 8 | OSPFMP | FMHPARM FROM DFHBMS |
| (80) | CHARACTER | 4 | OSPMSR | MSR OPTION BYTES |
| (84) | FULLWORD | 4 | OSPR14SV | SAVE R14 TPP/TPR |
| (88) | CHARACTER | 4 | | RESERVED |
| | 1... 11.. | | OSPSVEND | "" END BMS DATA FROM TCA |
| | ..11 11.. | | OSPSVLEN | "OSPSVEND-OSPSVDTA" MACRO REQUEST INFORMATION LENGTH |
| BUILD AREA FOR TEMP STORAGE KEYS | | | | |
| (8C) | CHARACTER | 12 | OSPTSKEY (0) | TEMP STG KEY OF PAGE OR MCR + CHAIN LEVEL + PAGE NO |
| (8C) | CHARACTER | 8 | OSPTSID (0) | TEMPORARY STORAGE KEY OF PAGE OR MACRO |
| (8C) | CHARACTER | 2 | OSPTSPFX | T. S. RECOVERY PREFIX |
| (8E) | BITSTRING | 1 | OSPTSPID | TEMPORARY STORAGE IDENTIFICATION FOR PAGES |
| | 1111 11.1 | | OSPBMTSI | "X'FD" BMS TEMPORARY STORAGE GENERIC ID |
| (8F) | BITSTRING | 3 | OSPLMID | LOGICAL MESSAGE ID |
| (92) | CHARACTER | 1 | OSPLMTTS | TERMINAL TYPE SUFFIX OF PAGE |
| (93) | BITSTRING | 1 | OSPTSQUL | TEMP STORAGE QUALIFICATION EVEN NO. FOR MCR ODD NO. FOR PAGE QUEUE |
| |1 | | OSPX01 | "X'01" TO CHANGE MCR'S ID TO ONE FOR CORRESPONDING PAGE QUEUE |
| (94) | BITSTRING | 1 | OSPPEGCN | PAGE CHAIN NUMBER FOR OUTPUT CHAINING |
| (96) | HALFWORD | 2 | OSPPEGNO | PAGE NUMBER |
| BMS WORK AREAS | | | | |
| (98) | DBL WORD | 8 | OSPWADW | DOUBLE-WORD WORK AREA |
| (A0) | FULLWORD | 4 | OSPWAF1 | FULLWORD WORK AREA |
| (A4) | FULLWORD | 4 | OSPWAF2 | FULLWORD WORK AREA |
| (A8) | ADDRESS | 4 | OSPCTTP | ADDRESS OF CURRENTLY ACTIVE TTP |
| (AC) | ADDRESS | 4 | OSPDTPP | ADDRESS OF FIRST DIRECT TTP |
| (B0) | ADDRESS | 4 | OSPSTTP | ADDRESS OF FIRST ROUTING TTP |
| (B4) | ADDRESS | 4 | OSPOFTTP | A(TTP DURING PAGEBLD OVERFLOW) |
| (B8) | ADDRESS | 4 | OSPDFTTP | SAVED A(ORIGINAL DEFAULT TTP) |
| (BC) | ADDRESS | 4 | OSPDLTTP | A(TTP WITH MAPSET'S DEFAULT LOCATION) |
| (C0) | ADDRESS | 4 | OSPFOA | TIOA ADDRESS |
| (C4) | ADDRESS | 4 | OSPFOA | REMEMBER WHERE WE GOT USER DATA |
| (C8) | ADDRESS | 4 | OSPTITLE | TITLE RECORD SAVE AREA ADDRESS |
| (CC) | ADDRESS | 4 | OSPSREQ | SUSPENDED REQUEST INFORMATION SAVE AREA |
| (D0) | ADDRESS | 4 | OSPDWE | DWE ADDRESS |
| (D4) | ADDRESS | 4 | OSPDWEOD | DWE FOR EODS ON BATCH LU |
| (D8) | ADDRESS | 4 | OSPRTPG | RETURNED PAGE LIST ADDRESS |
| (DC) | ADDRESS | 4 | OSPSFWSV | ->ATTR.STRIP 3270E O/B. |
| (E0) | ADDRESS | 4 | OSPPLT1 | A(1ST SEGMENT OF PAGE/LDC TABLE) |
| (E4) | ADDRESS | 4 | OSPPLTL | A(LAST SEGMENT OF PAGE/LDC TABLE) |
| |1. | | OSPPLTES | "2" EXTENDED PAGE/LDC TABLE ENTRY SIZE |
| | 1... .. | | OSPPLTNE | "128" NUMBER OF ENTRIES IN PAGE/LDC TABLE |
| OSPPLTES OSPPLTNE MUST NOT EXCEED 256 | | | | |
| (E8) | ADDRESS | 4 | OSP_BRIDGE_ FACILITY | ADDRESS OF BFB |
| SHORT TERM WORKAREAS, USED ONLY IN RLRLDCTT SUBROUTINE | | | | |
| (EC) | CHARACTER | 1 | OSPWKB1 | RLRLDCTT WORK AREA 1 |
| (ED) | CHARACTER | 1 | OSPWKB2 | RLRLDCTT WORK AREA 2 |
| (EE) | CHARACTER | 2 | OSPDLDLM | DEFAULT LDC MNEMONIC FROM MAP SET |
| (F0) | CHARACTER | 2 | OSPETLDC | ERROR TERMINAL'S LDC MNEMONIC |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (F2) | HALFWORD | 2 | OSPTTCNT | TERMINAL TYPE PARAMETER COUNT |
| (F4) | HALFWORD | 2 | OSPTOTPG | TOTAL PAGE COUNT (3601) |
| (F6) | | 4 | OSPTDEL | INTERVAL OR TIME OF DELIVERY |
| (FA) | CHARACTER | 4 | OSPDEL | DATE OF DELIVERY |
| (FE) | CHARACTER | 4 | OSPTERID | ID OF TERMINAL TO GET ERROR NOTICE |
| (102) | CHARACTER | 3 | OSPOPRCL | OPERATOR CLASS |
| (105) | BITSTRING | 1 | OSPIND01 | OUTPUT SERVICE PROCESSOR (OSP) |
| | 1... .. | | OSPOPPND | "X'80" OUTPUT PENDING IN PAGE BUFFERS |
| | .1.. .. | | OSPRT | "X'40" LOGICAL MESSAGE UNDER ROUTE REQUEST |
| | ..1. | | OSPDELI | "X'20" DELIVERY TIME IS INTERVAL |
| | ...1 | | OSPIRPL | "X'10" INITIATE RETURN PAGE LIST, IF NECESSARY |
| | 1... | | OSPLMPB | "X'08" LOGICAL MESSAGE IN PAGEBLD MODE |
| |1.. | | OSPLMTB | "X'04" LOGICAL MESSAGE IN TEXTBLD MODE |
| |1. | | OSPWAPGO | "X'02" PAGE OVERFLOW IN PROCESS |
| |1 | | OSPDWEP | "X'01" DWE PROCESSING IN PROGRESS |
| (106) | BITSTRING | 1 | OSPIND02 | OSPWA INDICATOR BYTE 02 |
| | 1... .. | | OSPBMSM | "X'80" BMS - SYSTEM MESSAGE |
| | .1.. .. | | OSPL1 | "X'40" REQUESTING PROGRAM IS PL1 |
| | ..1. | | OSPLTA | "X'20" LEAVE TCTTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT |
| | ...1 | | OSPRUWA | "X'10" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION |
| | 1... | | OSPSRTA | "X'08" SUCCESSFUL 'RESET TO AUTOMATIC PAGING |
| |1.. | | OSPLDCOB | "X'04" LDC MNEMONIC ORIGINLY BLANK |
| |1. | | OSPNOMDL | "X'02" DO NOT USE MAPSET DEF LDC |
| |1 | | OSPASCSA | "X'01" USE ALTERNATE SCREEN/PAGE SIZE |
| (107) | BITSTRING | 1 | OSPIND03 | OSPWA INDICATOR BYTE 03 |
| | 1... .. | | OSPLMLDC | "X'80" LOGICAL MESSAGE USES LDCS |
| | .1.. .. | | OSPLMPRT | "X'40" LOGICAL MESSAGE USES PARTITIONS |
| | ..1. | | OSP3270E | "X'20" 3270E INBOUND, SET BY MCP TESTED BY MIN |
| | ...1 | | OSPNDSS | "X'10" DEVICE DEPENDENT SUFFIXING NOT REQD |
| | 1... | | OSPTRAN | "X'08" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP |
| |1. | | OSPDFMAL | "X'04" PRE 1.6 MAPS ALIGNED |
| |1 | | OSPCUMAL | "X'02" CURRENT MAP IS ALIGNED |
| |1 | | OSPNOMAP | "X'01" BYPASS INPUT MAPPING - SET |
| (108) | BITSTRING | 1 | OSPIND04 | OSPWA INDICATOR BYTE 04 |
| | 1... .. | | OSPDFHE | "X'80" PRE R1.7 EDF MAP |
| | .1.. .. | | OSPNOSC | "X'40" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE |
| | ..1. | | OSPSOSIM | "X'20" SO/SI ATTRIBUTE EXISTENCE |
| | ...1 | | OSPFOLD | "X'10" UPPER CASE TRANSLATION NEEDED |
| | 1... | | OSPUEDIT | "X'08" GLUE can be called |
| (109) | BITSTRING | 1 | OSPADISP | CURRENTLY ACTIVE DISPOSITION |
| (10A) | BITSTRING | 1 | OSPDISP | DIRECT (ORIGINATING TERMINAL) DISPOSITION |
| (10B) | BITSTRING | 1 | OSPRDISP | ROUTING DISPOSITION |
| (10C) | HALFWORD | 2 | OSPMAL | MAP ATTRIBUTE LENGTH |
| (10E) | HALFWORD | 2 | OSPDAL | DATA STRUCTURE ATTRIBUTE LENGTH |
| (110) | HALFWORD | 2 | OSPMHLL | OFFSET TO FIRST MAP FIELD |
| (112) | BITSTRING | 4 | OSPPFWRK (0) | PAGE FORMATTING WORK AREA |

OSPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTPPFWRK

| | | | | |
|-------|-----------|---|----------|----------------------------------|
| (112) | BITSTRING | 1 | OSPPFCL | CURRENT LINE POINTER |
| (113) | BITSTRING | 1 | OSPPFNFL | NEXT AVAILABLE FULL LINE POINTER |
| (114) | BITSTRING | 1 | OSPPFNCL | NEXT AVAILABLE COLUMN FROM LEFT |
| (115) | BITSTRING | 1 | OSPPFNCR | NEXT AVAILABLE COLUMN FROM RIGHT |

TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA

| | | | | |
|-------|-----------|---|--------------|---------------------------------------|
| (115) | | | OSPTPCBA | *** |
| (116) | BITSTRING | 1 | OSPTPCO1 | COMMAND BYTE 1 |
| (117) | BITSTRING | 1 | OSPTPCO2 (0) | COMMAND BYTE 2 |
| (117) | BITSTRING | 1 | OSPTPPOS | POSITION BYTE (RETRIEVE, PURGE) |
| (118) | BITSTRING | 1 | OSPTPCHN | CHAIN NUMBER |
| (11A) | HALFWORD | 2 | OSPTPPAG | PAGE NUMBER |
| |1.. | | OSPTPLEN | **OSPTPCBA" COMMAND BUILD AREA LENGTH |

BMS RETURN INFORMATION

| | | | | |
|-------|-----------|---|----------|--|
| (11A) | | | OSPRISTR | *** |
| (11C) | BITSTRING | 1 | OSPRC1 | RETURN CODE BYTE ONE |
| | 1... .. | | OSPRF | "X'80" ROUTE FAILED - NO RESOLUTIONS |
| | .1.. .. | | OSPRW | "X'40" ROUTE WORKED - SOME RESOLUTIONS |
| | ..1. | | OSPIET | "X'20" INVALID ERROR TERMINAL |
| | 1... | | OSPMTL | "X'08" MAP TOO LARGE |
| |1.. | | OSPCBM | "X'04" I/O AREA CANNOT BE MAPPED |
| |1. | | OSPRPI | "X'02" PAGE RETURNED INDICATOR |
| |1 | | OSPIR | "X'01" INVALID REQUEST |
|  | .... .. |  | OSPNR1 | "X'00" NORMAL RESPONSE |
| (11D) | BITSTRING | 1 | OSPRC2 | RETURN CODE BYTE TWO |
| | 1... .. | | OSPTSIOE | "X'80" TEMPORARY STORAGE I/O ERROR |
| | .1.. .. | | OSPREQCD | "X'40" REQUEST CHANGE DIRECTION ERROR |
| | ..1. | | OSPUXI | "X'20" UNEXPECTED INPUT |
| | ...1 | | OSPIMN | "X'10" INVALID LDC MNEMONIC |
| | 1... | | OSPIPS | "X'08" INVALID PARTITION SET NAME |
| |1. | | OSPIPN | "X'04" INVALID PARTITION NAME |
| |1. | | OSPIPF | "X'02" PARTITION FAIL |
| |1 | | OSPDSS | "X'01" DATASET STATUS CHANGE |
| (11E) | BITSTRING | 1 | OSPRC3 | RETURN CODE BYTE THREE |
| | ..1. | | OSPIGRQI | "X'10" SPECIFIED 'REQID' IGNORED |
| | 1... | | OSPEOC | "X'08" END-OF-CHAIN IN LAST INPUT |
| |1.. | | OSPEODS | "X'04" END-OF-DATA-SET LAST INPUT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (11F) | BITSTRING | 1 | OSPFIH OSPOI OSPRI1 | "X'02" INBOUND FMH IN LAST INPUT "X'01" PAGEBLD OVERFLOW INDICATOR RETURN INFORMATION BYTE ONE ... IF INVMPsz THEN OSPRI1 CONTAINS TERMINAL CODE (TC) |
| (120) | BITSTRING | 4 | OSPPOF (0) | PAGEBLD OVERFLOW INFORMATION |
| (120) | BITSTRING | 2 | OSPPOG | CURRENT PAGE NUMBER |
| (122) | BITSTRING | 2 | OSPOCN | OVERFLOW CONTROL NUMBER |
| (122) | | | OSPCRIE | "*" END TCA CONTIG RETURN INFO |
| (124) | CHARACTER | 2 | OSPCRIL | "OSPCRIE-OSPRISTR" CONTIG RETURN INFO LENGTH |
| (126) | BITSTRING | 1 | OSPMSLDM | PARTNPAGE/LDC MNEMONIC |
| (126) | | | OSPRIEND | RESERVED |
| | | | OSPRIENL | "*" |
| | | | OSPRIENL | "OSPRIEND-OSPRISTR" BMS RETURN INFORMATION LENGTH |
| REGISTER SAVE AREAS - PART TWO | | | | |
| (128) | FULLWORD | 4 | OSPRSA (14) | APPLICATION PROGRAM REGISTER SAVE AREA |
| (160) | FULLWORD | 4 | OSPCPSA (14) | BMS CONTROL PROGRAM REGISTER SAVE AREA |
| (198) | CHARACTER | 256 | OSPTRTWA | TRT TABLE & WORK AREA |
| WORK AREAS AND STATUS DATA WHICH IS NOT CLEARED ON SEND PAGE OR PURGE MESSAGE | | | | |
| (298) | FULLWORD | 4 | OSPLBR6 | R6 VALUE AT LAST BLANK |
| (29C) | FULLWORD | 4 | OSPLBR8 | R8 VALUE AT LAST BLANK |
| (2A0) | FULLWORD | 4 | OSPLBR9 | R9 VALUE AT LAST BLANK |
| (2A4) | BITSTRING | 1 | OSPLBNCL | NEXT AVAILABLE COL FROM LEFT AT LAST BLANK |
| (2A5) | BITSTRING | 3 | | RESERVED |
| (2A8) | ADDRESS | 4 | OSPCPSTP | ADDRESS OF INCORE PARTITION SET |
| (2AC) | CHARACTER | 2 | OSPINPM | NAME OF ACTUAL INPUT PARTITION |
| (2AE) | CHARACTER | 1 | OSPINPID | PID OF ACTUAL INPUT PARTITION |
| (2AF) | CHARACTER | 1 | OSPRCODE | DFHPH RETURN CODE VALUE |
| (2B0) | HALFWORD | 2 | OSPRCVCT | RECEIVE MAP COUNT FOR EXPECTED INPUT PARTITION TRAP |
| (2B2) | CHARACTER | 1 | OSPXIPID | PID OF EXPECTED INPUT PARTITION |
| (2B4) | ADDRESS | 4 | OSPMCPIN | DFHMCPIN ENTRY ADDRESS |
| (2B8) | FULLWORD | 4 | OSPMLRG (8) | REGISTER SAVE AREA FOR ML1 SORT |
| (2D8) | ADDRESS | 4 | OSPMLNL | ADDR OF ML1 NEW LINE CHARACTER |
| (2DC) | ADDRESS | 4 | OSPMLTV | ADDRESS OF VERTICAL TABRACK |
| (2E0) | ADDRESS | 4 | OSPMLTH | ADDRESS OF HORIZONTAL TABRACK |
| (2E4) | BITSTRING | 1 | OSPMLCO | ML1 SAVE COLOR ATTRIBUTE |
| (2E5) | BITSTRING | 1 | OSPMLPS | RESERVED |
| (2E6) | BITSTRING | 1 | OSPMLSW | ML1 FLAGS |
| | | | OSPMLVB | "X'80" VERTICAL TABS USED |
| | | | OSPMLHB | "X'40" HORIZONTAL TABS USED |
| (2E7) | BITSTRING | 1 | OSPMLFR | ML1 SAVE OUTLINE ATTRIBUTE |
| (2E8) | ADDRESS | 4 | OSPMCBSV | MCB SAVE ADDRESS |
| (2EC) | HALFWORD | 2 | OSPMCAAP | OFFSET IN MCB OF APPLICATION PSET |
| (2EE) | CHARACTER | 2 | OSPTPPID | INPUT PID FOR TPR |
| (2F0) | HALFWORD | 2 | OSPTPTDL | INPUT DATA LENGTH (LESS 3270E INBOUND CONTROLS) FOR TPR |
| (2F4) | ADDRESS | 4 | OSPTPUDA | ADDRESS OF TPR INPUT DATA |
| (2F8) | CHARACTER | 1 | OSPTPAID | TPR INPUT AID |
| (2F9) | CHARACTER | 1 | OSPETBSV | SAVED IN TOM ATTR.STRIP |
| (2FA) | CHARACTER | 2 | OSPCPRTN | LAST PARTN= SLOT_VALUE |
| (2FC) | ADDRESS | 4 | OSPTOPTR | PTR-> INPUT MAPPING TIOA IN M32 |
| (300) | ADDRESS | 4 | OSPCROSP | A(SAVED OSPWA), IF TPR USES BMS WHILE CTRL=RETAIN |
| (304) | ADDRESS | 4 | OSPOVTPP | OVERFLOW TTP |
| (308) | ADDRESS | 4 | OSPSVTPP | REQUEST TTP WHILE OFTTP IS CURRENT. |
| (30C) | CHARACTER | 12 | OSPLBXA (0) | |
| (30C) | BITSTRING | 5 | OSPLBX | EXTENDED ATTR VALUES AT BLANK |
| (311) | BITSTRING | 7 | | RESERVED |
| (318) | FULLWORD | 4 | OSPDORSA (6) | DOMAIN CALL REGISTER SAVE AREA |
| (330) | HALFWORD | 2 | OSPCUAMC | MODIFIED CURSOR POSITION |
| (332) | BITSTRING | 1 | OSPCUA | FLAG BYTE FOR CUA SUPPORT |
| | | | OSPCUACL | "X'80" INDICATES CURSOR LOCATED |
| | | | OSPCUAEP | "X'40" INDICATES END OF CUA PROCESSING |
| | | | OSPCUASR | "X'20" INDICATES SHORT READ |
| | | | OSPCUAIF | "X'10" INDICATES CUR IN THIS FLD |

The following area accumulates 3270 data field information for the BMS global user exits.
 Changes to this area must be reflected in DFHMCPe & DFHXBMDs

| | | | | |
|-------|-----------|---|-------------|---|
| (334) | HALFWORD | 2 | BMXMAPCT | count of fields in map(s) |
| (336) | HALFWORD | 2 | BMXCOUNT | count of fields passed to GLUE for this request |
| (338) | HALFWORD | 2 | BMXINDEX | index to VALIDN attr value |
| (33C) | ADDRESS | 4 | BMXARRAY | address of field info array |
| (340) | ADDRESS | 4 | BMXNEXT | address of next element |
| (344) | HALFWORD | 2 | BMXELEM (0) | field info element |
| (344) | CHARACTER | 8 | BMXMAPST | mapset name |
| (34C) | CHARACTER | 7 | BMXMAP | map name |
| (353) | BITSTRING | 1 | BMXFDFB | field data flag byte |
| (354) | HALFWORD | 2 | BMXMAPLN | length of field in map |
| (356) | HALFWORD | 2 | BMXACTLN | length of data recvd/sent |
| (358) | ADDRESS | 4 | BMXDATA | address of field in TIOA |
| (35C) | ADDRESS | 4 | BMXATTR | address of attrs in TIOA |
| (360) | HALFWORD | 2 | BMXMAPOF | offset of field in MAP |
| (362) | HALFWORD | 2 | BMXBUF | offset of field in buffer |
| | | | ..1. | "*-BMXELEM" length of element |
| | | | ...1 ...1 | "*-BMXFDFB" length of variable info |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|----------------------------------|
| (364) | CHARACTER | 1 | BMXINTAB (8) | internal array |
| (364) | | | OSPEN | "" OSPWA END |
| (364) | | | OSPLEN | "OSPEN-OSPSTART" LENGTH OF OSPWA |

PCE Program control EXEC argument list

CONTROL BLOCK NAME = DFHPCEDS
 DESCRIPTIVE NAME = CICS Program Control EXEC argument list
 PROGRAMMING INTERFACES

The following fields are part of the Product-sensitive Programming Interface.

PC_ADDR0
 PC_ADDR1
 PC_ADDR2
 PC_ADDR3
 PC_ADDR4
 PC_ADDR5
 PC_ADDR6
 PC_ADDR7
 PC_ADDR8
 PC_GROUP
 PC_FUNCT
 PC_BITS1
 PC_EIDOPT5
 PC_EIDOPT6
 PC_PROGRAM
 PC_LENGTH
 PC_INPUTMSGLEN
 PC_DATALENGTH
 PC_SYSID
 PC_TRANSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface.

FUNCTION =

To define fields that may be of use to Program Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The application environment indicators

On entry to the XPCREQ and XPCREQC User exits, the EXEC parameter list is pointed to by UEPCLPS. The EXEC parameter list for program control consists of up to nine addresses.

The nine addresses are defined by PC_ADDR0 to PC_ADDR8. This DSECT defines PC_ADDR0 to PC_ADDR8 and the areas that they point to.

On entry to the XPCREQ and XPCREQC user exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

The address of an application environment flag byte pointed to by UEPINDS is also passed to the user exit program. It contains flags which are mapped by the PC_INDS DSECT. These flags allow the exit program to decide whether the user application can access storage above or below the 16M line and which key such storage should be in, CICS or USER.

This copybook also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Program Control.

LIFETIME = Lifetime of the PC command request
 STORAGE CLASS = As some of the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.
 (3) The exit token is addressed by UEPCTOK

INNER CONTROL BLOCKS =
 PC_ADDR_LIST declares the EXEC addresses
 PC_EID defines Argument 0 pointed to by PC_ADDR0

NOTES :

DEPENDENCIES = S/370 ESA
 RESTRICTIONS = None
 MODULE TYPE = Control Block definition

The Command Parameter List
 PC_ADDR_LIST defines nine addresses, that form the EXEC parameter list for Program Control.
 In addition, PC_ADDR1 to PC_ADDR8 may be modified by a user exit.
 Any attempt to modify PC_ADDR0 will be ignored.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|--------------|---------------------|
| (0) | | | PC_ADDR_LIST | EXEC Parameter List |
| (0) | ADDRESS | 4 | PC_ADDR0 | Address 0 |
| (4) | ADDRESS | 4 | PC_ADDR1 | Address 1 |
| (8) | ADDRESS | 4 | PC_ADDR2 | Address 2 |
| (C) | ADDRESS | 4 | PC_ADDR3 | Address 3 |
| (10) | ADDRESS | 4 | PC_ADDR4 | Address 4 |
| (14) | ADDRESS | 4 | PC_ADDR5 | Address 5 |
| (18) | ADDRESS | 4 | PC_ADDR6 | Address 6 |
| (1C) | ADDRESS | 4 | PC_ADDR7 | Address 7 |
| (20) | ADDRESS | 4 | PC_ADDR8 | Address 8 |

PC_EID defines:

- (1) The type of request
- (2) Existence bits indicating which addresses in the EXEC Parameter List are valid.
- (3) Bits to indicate the keywords specified.

PC_ADDR0 contains the address of PC_EID.
 The following bits may be modified in a Program Control user exit.

- (1) Existence bits PC_EXIST2, PC_EXIST3, PC_EXIST4, PC_EXIST5, PC_EXIST6, PC_EXIST7 and PC_EXIST8.
- (2) The keyword descriptor PC_SYNCONRET_X.

Any attempt to modify any other part of PC_EID will be ignored.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------|--------------------------------|
| (0) | | | PC_EID | Argument 0 for Program Control |
| (0) | CHARACTER | 1 | PC_GROUP 111. | Group Code |
| (1) | CHARACTER | 1 | PC_FUNCT.... ..1. | Function Code |
| | | | PC_LINK | "X'02" LINK Request |

The next two bytes contain existence bits for the addresses in the EXEC parameter list.
 For example, PC_ADDR1 should not be used unless PC_EXIST1 is set on.
 PC_ADDR0 is always valid and has no existence bit.

| | | | | |
|-----|-----------|---|---|---|
| (2) | BITSTRING | 1 | PC_BITS1 1... .. .1. .... ..1. .... ...1 1.. | First 8 existence bits "X'80" PC_ADDR1 is valid if the command specifies PROGRAM. "X'40" PC_ADDR2 is valid if the command specifies COMMAREA. This bit may be modified by a user exit. "X'20" PC_ADDR3 is valid if the command specifies LENGTH. This bit may be modified by a user exit. "X'10" PC_ADDR4 is valid if the command specifies INPUTMSG. This bit may be modified by a user exit. "X'08" PC_ADDR5 is valid if the command specifies INPUTMSGLEN. This bit may be modified by a user exit. "X'04" PC_ADDR6 is valid if the command specifies DATALENGTH. This bit may be modified by a user exit. "X'02" PC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit. "X'01" PC_ADDR8 is valid if the command specifies TRANSID. This bit may be modified by a user exit. |
| (3) | BITSTRING | 1 | PC_EXIST8 | Reserved |

The next byte is reserved.

| | | | | |
|-----|-----------|---|--|----------|
| (4) | BITSTRING | 1 | | Reserved |
|-----|-----------|---|--|----------|

The next 2 bytes describe the keywords on the command
 For example, if PC_SYNCONRET_X is set on, the command included the SYNCONRETURN keyword. If PC_SYNCONRET_X is set off, the command did not include the SYNCONRETURN keyword.

| | | | | |
|-----|-----------|---|---------------------------|-------------------------------|
| (5) | BITSTRING | 1 | PC_EIDOPT5 | Options Byte 1 |
| (6) | BITSTRING | 1 | PC_EIDOPT6 | Options byte 2 |
| | | | 1... .. PC_SYNCONRET_X | "X'80" SYNCONRETURN specified |

The following definitions define the variables addressed by the remainder of the EXEC parameter list
 PC_ADDR1 addresses program name

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | CHARACTER | 8 | PC_DATA1 | Addressed by PC_ADDR1 program name |
| (0) | | | PC_PROGRAM | |

PC_ADDR2 addresses the COMMAREA whose length is given in PC_ADDR3
 PC_ADDR3 addresses the length of the COMMAREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|------------|--|
| (0) | HALFWORD | 2 | PC_DATA3 | Addressed by PC_ADDR3 Value of LENGTH |
| (0) | | | PC_LENGTH | |

PC_ADDR4 addresses the INPUTMSG whose length is given in PC_ADDR5
 PC_ADDR5 addresses the length of the INPUTMSG

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|----------------|--|
| (0) | HALFWORD | 2 | PC_DATA5 | Addressed by PC_ADDR5 Area for LENGTH of INPUTMSG |
| (0) | | | PC_INPUTMSGLEN | |

PC_ADDR6 addresses length of COMMAREA to be sent

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------|-----|---------------|--|
| (0) | HALFWORD | 2 | PC_DATA6 | Addressed by PC_ADDR6 Area For DATALENGTH |
| (0) | | | PC_DATALENGTH | |

PC_ADDR7 addresses SYSID

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | CHARACTER | 4 | PC_DATA7 | Addressed by PC_ADDR7 Area For SYSID |
| (0) | | | PC_SYSID | |

PC_ADDR8 addresses TRANSID

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | CHARACTER | 4 | PC_DATA8 | Addressed by PC_ADDR8 Area For TRANSID |
| (0) | | | PC_TRANSID | |

Start of general use programming interface.
 EIBRCODE, EIBRESP and EIBRESP2
 Equates for EIBRCODE values used by Program Control

| | | | | |
|------|-----------|---|-----------------------|--------|
| (4) | BITSTRING | 6 | PC_OK_EIBRCODE | OK |
| .... | ...1 | | PC_PGMIDERR_ EIBRCODE | "X'01" |
| 11.1 | .... |  | PC_SYSIDERR_ EIBRCODE | "X'D0" |
| 111. | .... |  | PC_INVREQ_ EIBRCODE | "X'E0" |
| 111. | ...1 | | PC LENGERR_ EIBRCODE | "X'E1" |
| 1111 | ...1 | | PC_TERMERR_ EIBRCODE | "X'F1" |

Equates for EIBRESP values used by Program Control

| | | | | |
|------|------|--|---------------------|----------------------|
| .... | .... |  | PC_OK_EIBRESP | "0" OK |
| ...1 | .... |  | PC_INVREQ_ EIBRESP | "16" invalid request |
| ...1 | .11. | | PC LENGERR_ EIBRESP | "22" length error |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------|-----|------------------------|--|
| ...1 | 1.11 | | PC_PGMIDERR_ EIBRESP | "27" program id error |
| ..11 | .1.1 | | PC_SYSIDERR_ EIBRESP | "53" system id error |
| .1.. | .11. | | PC_NOTAUTH_ EIBRESP | "70" not authorised |
| .1.1 | ...1 | | PC_TERMERR_ EIBRESP | "81" terminal error |
| <hr/> | | | | |
| Equates for EIBRESP2 values used by Program Control | | | | |
| .... | .... |  | PC_OK_EIBRESP2 | "0" OK |
| .... | ...1 | | PC_PGMIDERR_1_EIBRESP2 | "1" PPT entry not located |
| .... | ..1. | | PC_PGMIDERR_2_EIBRESP2 | "2" program disabled |
| .... | ..11 | | PC_PGMIDERR_3_EIBRESP2 | "3" program not found in load library |
| .... | 1... | | PC_INVREQ_1_EIBRESP2 | "8" INPUTMSG without terminal |
| .... | 1.11 | | PC LENGERR_1_EIBRESP2 | "11" LENGTH < 0 |
| .... | 11.. | | PC LENGERR_2_EIBRESP2 | "12" DATALENGTH < 0 |
| .... | 11.1 | | PC LENGERR_3_EIBRESP2 | "13" DATALENGTH > LENGTH |
| .... | 111. | | PC_INVREQ_2_EIBRESP2 | "14" SYNCONRETURN invalid |
| .... | 1111 | | PC_INVREQ_3_EIBRESP2 | "15" TRANSID invalid |
| ...1 | .... |  | PC_INVREQ_4_EIBRESP2 | "16" TRANSID blank |
| ...1 | ...1 | | PC_TERMERR_1_EIBRESP2 | "17" TERMERR raised |
| ...1 | ..1. | | PC_SYSIDERR_1_EIBRESP2 | "18" SYSIDERR raised |
| ...1 | ..11 | | PC_INVREQ_5_EIBRESP2 | "19" INPUTMSG specified on DPL request |
| ...1 | .1.. | | PC_SYSIDERR_2_EIBRESP2 | "20" DPL not supported over LU6.1 |
| .11. | .1.1 | | PC_NOTAUTH_1_EIBRESP2 | "101" resource security check failed |
| <hr/> | | | | |
| End of general use programming interface. | | | | |

PCUES Program control user exits DSECT

CONTROL BLOCK NAME = DFHPCUES
 DESCRIPTIVE NAME = CICS Program control user exits DSECT
 This data block describes the fields passed to the program control user exits XPCFTCH, XPCTA and XPCHAIR. .
 The storage is acquired, and the fields filled, in DFHL1.
 LIFETIME = The storage area is created when an enabled program control exit is called and released when control is returned from the exit to program control.
 LOCATION =
 The storage is in GETMAINed in DFHL1.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|--|
| (0) | STRUCTURE | 60 | DFHPCUES | program control user exits work area |
| (0) | HALFWORD | 2 | PCUE_LENGTH_OF_DSECT | |
| (2) | BITSTRING | 1 | PCUE_CONTROL_BITS | |
| | | | PCUECBTE | task has a terminal id |
| | | | PCUENOTX | program is not EXEC level |
| | | | * | reserved |
| (3) | BITSTRING | 1 | * | reserved |
| (4) | CHARACTER | 3 | PCUE_TASK_NUMBER | task identification number |
| (7) | CHARACTER | 1 | * | reserved |
| (8) | CHARACTER | 4 | PCUE_TRANSACTION_ID | Transaction ID |
| (C) | CHARACTER | 4 | PCUE_TERMINAL_ID | Terminal ID |
| (10) | CHARACTER | 8 | PCUE_PROGRAM_NAME | Program name |
| (18) | CHARACTER | 3 | PCUE_PROGRAM_LANGUAGE | Program language |
| (1B) | CHARACTER | 1 | * | reserved |
| (1C) | ADDRESS | 4 | PCUE_LOAD_POINT | Program load address |
| (20) | ADDRESS | 4 | PCUE_ENTRY_POINT | Program entry point addr |
| | | | PCUEAMOD | AMODE (31) |
| (20) | BITSTRING | 3 | * | |
| (24) | FULLWORD | 4 | PCUE_PROGRAM_SIZE | Program size |
| (28) | ADDRESS | 4 | PCUE_COMMAREA_ADDRESS | Commarea address, if any |
| (2C) | FULLWORD | 4 | PCUE_COMMAREA_SIZE | Commarea size |
| (30) | FULLWORD | 4 | PCUE_LOGICAL_LEVEL | chained DFHRSADS |
| (34) | ADDRESS | 4 | PCUE_BRANCH_ADDRESS | Alternate branch address |
| | | | PCUE_BRANCH_AMODE | AMODE of program at branch |
| (34) | BITSTRING | 3 | * | |
| (38) | BITSTRING | 1 | PCUE_BRANCH_EXECKEY | Execution key to be used at modified address |
| (39) | CHARACTER | 3 | * | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|------------------|---------------------|
| 1 | HEX | 80 | PCUE_BRANCH_USER | User Key, for XPCTA |
| 1 | HEX | 40 | PCUE_BRANCH_CICS | CICS Key, for XPCTA |

PDA Monitoring performance data record

CONTROL BLOCK NAME = DFHMNPDA
 DESCRIPTIVE NAME = CICS CICS/ESA Monitoring Facility (CMF)
 FUNCTION =
 This DSECT describes the format of the CICS/ESA Monitoring Facility (CMF) Performance class record created by the
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 INNER CONTROL BLOCKS = N/A
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = N/A
 CONTROL BLOCKS = N/A
 GLOBAL VARIABLES (Macro pass) = N/A

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|------------------------------------|
| (0) | | | DFHMNPDA | , Unloaded Performance Data Record |
| (0) | CHARACTER | 8 | PDRJOBNM | Jobname |
| (8) | CHARACTER | 8 | PDRGAPPL | Generic Applid |
| (10) | CHARACTER | 8 | PDRSAPPL | Specific Applid |
| (18) | CHARACTER | 4 | PDRSID | System identification |
| (1C) | BITSTRING | 2 | PDRRVN | Record version - 'x'0vrm' |
| (1E) | BITSTRING | 2 | PDRMFL | Record maintenance indicator |
| (20) | BITSTRING | 4 | | Reserved - spare |
| (24) | BITSTRING | 2 | PDRCLASS | Performance record class |
| (26) | BITSTRING | 10 | PDRSRTKY (0) | Cross system report sort key |
| (26) | BITSTRING | 2 | PDRSEQNO | Syncpoint sequence number |
| (28) | BITSTRING | 8 | PDRDETT2 | Transaction stop time |
| (30) | | 4 | PDRDATE | Stop Date (unsigned packed) |
| (34) | BITSTRING | 4 | PDRTIME | Stop Time (binary) |
| (38) | BITSTRING | 4 | PDRRESP | RESPonse Time (stop - start) |
| (3C) | BITSTRING | 4 | PDRIRESP | IRESPonse Time (resp - tciowt) |
| (40) | BITSTRING | 4 | | Spare - reserved |
| (44) | BITSTRING | 22 | PDRDB2TK | DB2 Accounting Correlation Token |
| (5A) | BITSTRING | 2 | | Spare - reserved |

The following fields are positionally sensitive.

| | | | | |
|------|------------|----|---------------|---|
| (5C) | FULLWORD | 4 | PDRBEGIN (0) | |
| (5C) | CHARACTER | 4 | PDRTRID | Transaction identification |
| (60) | CHARACTER | 4 | PDRTEID | Terminal identification |
| (64) | CHARACTER | 8 | PDRUSID | User identification |
| (6C) | CHARACTER | 2 | PDRTRTY | Transaction start type |
| (6E) | BITSTRING | 2 | | Reserved |
| (70) | BITSTRING | 8 | PDRATTT | Task start time |
| (78) | BITSTRING | 8 | PDRDETT | Task stop time |
| (80) | BITSTRING | 4 | PDRTRSN | Transaction sequence number |
| (84) | BITSTRING | 3 | | Reserved |
| (87) | BITSTRING | 1 | PDRTPRI | Transaction priority |
| (88) | CHARACTER | 8 | PDRTCLSN | Transaction class name |
| (90) | CHARACTER | 8 | PDRLUNM | VTAM logical unit name |
| (98) | CHARACTER | 8 | PDRPGNM | First program name Originating Network Unit-of-Work Id |
| (A0) | CHARACTER | 20 | PDRNETPX | Network Unit-of-Work Netname |
| (B4) | BITSTRING | 8 | PDRNETSX | Network Unit-of-Work Instance/Seqno |
| (BC) | CHARACTER | 4 | PDRRSYS | Remote sysid routed to |
| (C0) | BITSTRING | 4 | PDRPRCNT | Performance record count |
| (C4) | BITSTRING | 8 | PDRRMUOW | Recovery Manager Unit-of-Work id |
| (CC) | CHARACTER | 8 | PDRSRVCL | Workload Manager service class name |
| (D4) | CHARACTER | 8 | PDRRPTCL | Workload Manager report class name |
| (DC) | BITSTRING | 4 | PDRFCTY | FCTYNAME - Transaction Facility name |
| (E0) | BITSTRING | 8 | PDRTRFLG (0) | TRANFLAG - Transaction Flags |
| (E0) | BITSTRING | 1 | PDRTRFL1 | Transaction Flag 1 |
| | 1... .. | | PDRTRFL1_NONE | "X'80" None |
| | .1.. .. | | PDRTRFL1_TERM | "X'40" Terminal Facility |
| | ..1. | | PDRTRFL1_SURR | "X'20" Surrogate Terminal Facility |
| | ...1 | | PDRTRFL1_DEST | "X'10" Destination Facility |
| | 1... | | PDRTRFL1_BRDG | "X'08" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|--|
| (E1) | BITSTRING | 1 | PDRTRFL2 | Transaction Flag 2 |
| | 1... .. | | PDRTRFL2_SYSTEM | "X'80" System Transaction |
| | .1. | | PDRTRFL2_MIRROR | "X'40" Mirror Transaction |
| | .1. | | PDRTRFL2_DPL | "X'20" Mirror Transaction - DPL |
| | 1... | | PDRTRFL2_ONC_RPC | "X'10" Alias Transaction - ONC/RPC |
| | 1... | | PDRTRFL2_WEB | "X'08" Alias Transaction - WEB |
| |1. | | PDRTRFL2_BRIDGE | "X'04" Bridge Transaction EQU X'02' Reserved |
| |1 | | PDRTRFL2_RUN_TRAN | "X'01" BTS Run Transaction |
| (E2) | BITSTRING | 1 | PDRTRFL3 | Transaction Flag 3 |
| | 1... .. | | PDRTRFL3_RPT | "X'80" WLM Report |
| | .1. | | PDRTRFL3_NTFY_COMP | "X'40" WLM Notify - Completion |
| | .1. | | PDRTRFL3_NTFY | "X'20" WLM Notify |
| (E3) | BITSTRING | 1 | PDRTRFL4 | Transaction Flag 4 |
| | 1... .. | | PDRTRFL4_LOC_BELOW | "X'80" Taskdataloc=below |
| | .1. | | PDRTRFL4_CICS_KEY | "X'40" Taskdatakey=cics |
| | .1. | | PDRTRFL4_ISOLATE_NO | "X'20" Isolate=no |
| | ...1 | | PDRTRFL4_DYNAMIC | "X'10" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved |
| (E4) | BITSTRING | 1 | PDRTRFL5 | Transaction Flag 5 - Reserved Transaction origin type |
| (E5) | BITSTRING | 1 | PDRTRFL6 | Transaction Flag 6 - Reserved |
| (E6) | BITSTRING | 1 | PDRTRFL7 | Transaction Flag 7 - Reserved |
| (E7) | BITSTRING | 1 | PDRTRFL8 | Transaction Flag 8 |
| | 1... .. | | PDRTRFL8_WAIT_NO | "X'80" Indoubt wait = no |
| | .1. | | PDRTRFL8_COMMIT | "X'40" Indoubt action = commit |
| | .1. | | PDRTRFL8_INDOUBT_ACT | "X'20" UOW Indoubt action |
| | ...1 | | PDRTRFL8_UOW_SHUNT | "X'10" UOW Shunt |
| | 1... | | PDRTRFL8_UOW_UNSHUNT | "X'08" UOW Unshunt |
| |1.. | | PDRTRFL8_INDBT_FAIL | "X'04" Indoubt failure |
| |1. | | PDRTRFL8_RO_FAILURE | "X'02" Resource Owner failure EQU X'01' Reserved |
| (E8) | BITSTRING | 4 | PDRTEINF (0) | TERMINFO - Terminal Information |
| (E8) | BITSTRING | 1 | PDRNATUR | Nature |
|  | .... .... |  | PDRNATUR_NOTAPPLIC | "X'00" Not applic |
| |1 | | PDRNATUR_TERMINAL | "X'01" Terminal |
| |1. | | PDRNATUR_SESSION | "X'02" Session |
| (E9) | BITSTRING | 1 | PDRSESST | Session Type |
|  | .... .... |  | PDRSESST_NOTAPPLIC | "X'00" Not applic |
| |1 | | PDRSESST_IRC | "X'01" IRC |
| |1. | | PDRSESST_IRC_XM | "X'02" IRC XM |
| |11 | | PDRSESST_IRC_XCF | "X'03" IRC XCF |
| |1.. | | PDRSESST_LU61 | "X'04" LU61 |
| |1.1 | | PDRSESST_LU62_SING | "X'05" LU62 SINGLE |
| |11. | | PDRSESST_LU62_PARA | "X'06" LU62 PARALLEL |
| (EA) | BITSTRING | 1 | PDRACMTH | Access method |
|  | .... .... |  | PDRACMTH_NOTAPPLIC | "X'00" Not applic |
| |1 | | PDRACMTH_VTAM | "X'01" VTAM |
| |1. | | PDRACMTH_BTAM | "X'02" BTAM |
| |11 | | PDRACMTH_BSAM | "X'03" BSAM |
| |1.. | | PDRACMTH_TCAM | "X'04" TCAM |
| |1.1 | | PDRACMTH_TCAMSNA | "X'05" TCAMSNA |
| |11. | | PDRACMTH_BGAM | "X'06" BGAM |
| |111 | | PDRACMTH_CONSOLE | "X'07" CONSOLE |
| (EB) | BITSTRING | 1 | PDRDVTCD | Device type code See TYPETERM RDO attribute |
| (EC) | CHARACTER | 4 | PDRTECNM | TERMCONM - Terminal Connection name |
| (F0) | CHARACTER | 4 | PDRBTRID | BRDGRAN - Bridge transaction id |
| (F4) | BITSTRING | 16 | PDRURID | RRMSURID - RRMS/MVS Unit of Recovery |
| (104) | CHARACTER | 36 | PDRPNAME | PRCSNAME - Process name |
| (128) | CHARACTER | 8 | PDRPTYPE | PRCSTYPE - Process type |
| (130) | CHARACTER | 52 | PDRPCID | PRCSID - Process id |
| (164) | CHARACTER | 52 | PDRACTID | ACTVTYID - Activity id |
| (198) | CHARACTER | 16 | PDRACTNM | ACTVTYNM - Activity name |
| (1A8) | CHARACTER | 16 | PDRICIPAD | CLIPADDR - Client IP Address |
| (1B8) | BITSTRING | 28 | PDRTGPID | TRNGRPID - Transaction Group Id |
| (1D4) | BITSTRING | 4 | PDRERROR | TASKFLAG - Transaction error flags |
| (1D8) | CHARACTER | 4 | PDRABCD0 | Original Transaction abend codes |
| (1DC) | CHARACTER | 4 | PDRABCD4 | Current Transaction abend code |
| (1E0) | BITSTRING | 3 | | Reserved |
| (1E3) | CHARACTER | 1 | PDRRTYPE | Performance record type |
| | 11.. ..11 | | PDRRTYPE_CONVERSE | "C'C" Converse |
| | 11.. .1.. | | PDRRTYPE_DELIVER | "C'D" Deliver |
| | 11.. ..11. | | PDRRTYPE_FREQUENCY | "C'F" Frequency |
| | 111. ..1. | | PDRRTYPE_SYNCPOINT | "C'S" Syncpoint |
| | 111. ..11 | | PDRRTYPE_TERMINATE | "C'T" Terminate |
| (1E4) | BITSTRING | 4 | PDRPINMC | Primary TC messages - in |
| (1E8) | BITSTRING | 4 | PDRTCHC | Primary TC characters - in |
| (1EC) | BITSTRING | 4 | PDRPOUMC | Primary TC messages - out |
| (1F0) | BITSTRING | 4 | PDRTCO1C | Primary TC characters - out |
| (1F4) | BITSTRING | 4 | PDRSINMC | Secondary TC messages - in |
| (1F8) | BITSTRING | 4 | PDRTCI2C | Secondary TC characters - in |
| (1FC) | BITSTRING | 4 | PDRSOU MC | Secondary TC messages - out |
| (200) | BITSTRING | 4 | PDRTCO2C | Secondary TC characters - out |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (204) | BITSTRING | 4 | PDR62IMC | Secondary TC msgs for LU6.2. - in |
| (208) | BITSTRING | 4 | PDR62ICH | Secondary TC chars for LU6.2. - in |
| (20C) | BITSTRING | 4 | PDR62OMC | Secondary TC msgs for LU6.2. - out |
| (210) | BITSTRING | 4 | PDR62OCH | Secondary TC chars for LU6.2. - out |
| (214) | BITSTRING | 4 | PDRTAC | No. TCTTE allocate requests |
| (218) | BITSTRING | 4 | PDRSCUGB | User stg getmain count below 16M |
| (21C) | BITSTRING | 4 | PDRSCUGA | User stg getmain count above 16M |
| (220) | BITSTRING | 4 | PDRSCCGB | CDSA stg getmain count below 16M |
| (224) | BITSTRING | 4 | PDRSCCGA | ECDSA stg getmain count above 16M |
| (228) | BITSTRING | 4 | PDRUSHWB | User task storage HWM below 16M |
| (22C) | BITSTRING | 4 | PDRUSHWA | User task storage HWM above 16M |
| (230) | BITSTRING | 4 | PDRCHWMB | CDSA storage HWM below the 16M |
| (234) | BITSTRING | 4 | PDRCHWMA | ECDSA storage HWM above the 16M |
| (238) | BITSTRING | 8 | PDRUTSOB | User task stg "occupancy" below 16M |
| (240) | BITSTRING | 8 | PDRUTSOA | User task stg "occupancy" above 16M |
| (248) | BITSTRING | 8 | PDRCOCCB | CDSA storage "occupancy" below 16M |
| (250) | BITSTRING | 8 | PDRCOCCA | ECDSA storage "occupancy" above 16M |
| (258) | BITSTRING | 4 | PDRSC24S | Shared stg getmain count below 16M |
| (25C) | BITSTRING | 4 | PDRSC24G | Shared stg bytes getmain'd |
| (260) | BITSTRING | 4 | PDRSC24F | Shared stg bytes freemain'd |
| (264) | BITSTRING | 4 | PDRSC31S | Shared stg getmain count above 16M |
| (268) | BITSTRING | 4 | PDRSC31G | Shared stg bytes getmain'd |
| (26C) | BITSTRING | 4 | PDRSC31F | Shared stg bytes freemain'd |
| (270) | BITSTRING | 4 | PDRPCUSE | Program storage HWM |
| (274) | BITSTRING | 4 | PDRPC31A | Program storage HWM above 16M |
| (278) | BITSTRING | 4 | PDRPCUSB | Program storage HWM below 16M |
| (27C) | BITSTRING | 4 | PDRPCCAH | ECDSA CICS program storage HWM |
| (280) | BITSTRING | 4 | PDRPCCBH | CDSA CICS program storage HWM |
| (284) | BITSTRING | 4 | PDRPCRAH | ERDSA R/O program storage HWM |
| (288) | BITSTRING | 4 | PDRPCRBH | RDSA R/O program storage HWM |
| (28C) | BITSTRING | 4 | PDRPCSAH | ESDSA Shared program storage HWM |
| (290) | BITSTRING | 4 | PDRPCSBH | SDSA Shared program storage HWM |
| (294) | BITSTRING | 4 | PDRFCGC | No. file gets |
| (298) | BITSTRING | 4 | PDRFCPC | No. file puts |
| (29C) | BITSTRING | 4 | PDRFCBC | No. file browses |
| (2A0) | BITSTRING | 4 | PDRFCAC | No. file adds |
| (2A4) | BITSTRING | 4 | PDRFCDC | No. file deletes |
| (2A8) | BITSTRING | 4 | PDRFCTC | Total FC requests |
| (2AC) | BITSTRING | 4 | PDRFCAMC | No. access method requests |
| (2B0) | BITSTRING | 4 | PDRTDGC | No. transient data gets |
| (2B4) | BITSTRING | 4 | PDRTDPC | No. transient data puts |
| (2B8) | BITSTRING | 4 | PDRTDRC | No. transient data purges |
| (2BC) | BITSTRING | 4 | PDRTDTC | Total TD requests |
| (2C0) | BITSTRING | 4 | PDRTSGC | No. temp storage gets |
| (2C4) | BITSTRING | 4 | PDRTSPAC | No. temp storage puts - aux |
| (2C8) | BITSTRING | 4 | PDRTSPMC | No. temp storage puts - main |
| (2CC) | BITSTRING | 4 | PDRTSTC | Total TS requests |
| (2D0) | BITSTRING | 4 | PDRBMMC | No. BMS map requests |
| (2D4) | BITSTRING | 4 | PDRBMIC | No. BMS in requests |
| (2D8) | BITSTRING | 4 | PDRBMOC | No. BMS out requests |
| (2DC) | BITSTRING | 4 | PDRBMTC | Total BMS requests |
| (2E0) | BITSTRING | 4 | PDRPCLIC | No. program links |
| (2E4) | BITSTRING | 4 | PDRPCXC | No. program xctls |
| (2E8) | BITSTRING | 4 | PDRPCLOC | No. program loads |
| (2EC) | BITSTRING | 4 | PDRPCLUC | No. program links to URM's |
| (2F0) | BITSTRING | 4 | PDRPCDPL | No. DPL program links |
| (2F4) | BITSTRING | 4 | PDRJNLCT | No. journal write requests |
| (2F8) | BITSTRING | 4 | PDRLGWCT | No. CICS logger write requests |
| (2FC) | BITSTRING | 4 | PDRICC | No. interval control starts |
| (300) | BITSTRING | 4 | PDRICTC | Total interval control requests |
| (304) | BITSTRING | 4 | PDRSPPC | No. syncpoint requests |
| (308) | BITSTRING | 4 | PDRCFACT | No. OO Class Library API requests |
| (30C) | BITSTRING | 4 | PDRSZACT | No. FEPI allocates |
| (310) | BITSTRING | 4 | PDRSZRCT | No. FEPI receives |
| (314) | BITSTRING | 4 | PDRSZSCT | No. FEPI sends |
| (318) | BITSTRING | 4 | PDRSZTCT | No. FEPI starts |
| (31C) | BITSTRING | 4 | PDRSZCOT | No. chars sent via FEPI |
| (320) | BITSTRING | 4 | PDRSZCIN | No. chars received via FEPI |
| (324) | BITSTRING | 4 | PDRSZATO | No. FEPI allocate timeouts |
| (328) | BITSTRING | 4 | PDRSZRTO | No. FEPI receive timeouts |
| (32C) | BITSTRING | 4 | PDRSZTOT | Total no. FEPI requests |
| (330) | BITSTRING | 4 | PDRBARSC | No. Run Process/Activity Sync |
| (334) | BITSTRING | 4 | PDRBARAC | No. Run Process/Activity Async |
| (338) | BITSTRING | 4 | PDRBALKC | No. Link Process/Activity reqs |
| (33C) | BITSTRING | 4 | PDRBADPC | No. Define Process requests |
| (340) | BITSTRING | 4 | PDRBADAC | No. Define Activity requests |
| (344) | BITSTRING | 4 | PDRBTPAC | No. Reset Process/Activity reqs |
| (348) | BITSTRING | 4 | PDRBSPAC | No. Suspend Process/Activity reqs |
| (34C) | BITSTRING | 4 | PDRBRPAC | No. Resume Process/Activity reqs |
| (350) | BITSTRING | 4 | PDRBDCPC | No. Delete/Cancel requests |
| (354) | BITSTRING | 4 | PDRBAAPC | No. Acquire Process requests |
| (358) | BITSTRING | 4 | PDRBATPC | Total No. Process/Activity reqs |
| (35C) | BITSTRING | 4 | PDRBAPDC | No. Process Container requests |
| (360) | BITSTRING | 4 | PDRBAADC | No. Activity Container requests |
| (364) | BITSTRING | 4 | PDRBATCC | Total No. Container requests |
| (368) | BITSTRING | 4 | PDRBAREC | No. Reattach Event requests |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--|
| (36C) | BITSTRING | 4 | PDRBADIC | No. Define Input Event requests |
| (370) | BITSTRING | 4 | PDRBATAC | No. Timer Associated Event requests |
| (374) | BITSTRING | 4 | PDRBATEC | Total no. Event requests |
| (378) | BITSTRING | 4 | PDRWBRCT | No. WEB Receive requests |
| (37C) | BITSTRING | 4 | PDRWBCIN | No. Characters received via WEB reqs |
| (380) | BITSTRING | 4 | PDRWBCST | No. WEB Send requests |
| (384) | BITSTRING | 4 | PDRWBCOT | No. Characters sent via WEB requests |
| (388) | BITSTRING | 4 | PDRWBTC | Total No. WEB requests |
| (38C) | BITSTRING | 4 | PDRWBRPR | No. Repository Reads |
| (390) | BITSTRING | 4 | PDRWBRPW | No. Repository Writes |
| (394) | BITSTRING | 4 | PDRDHCRG | No. Document Create requests |
| (398) | BITSTRING | 4 | PDRDHINC | No. Document Insert requests |
| (39C) | BITSTRING | 4 | PDRDHSTC | No. Document Set requests |
| (3A0) | BITSTRING | 4 | PDRDHRTC | No. Document Retrieve requests |
| (3A4) | BITSTRING | 4 | PDRDHTC | Total No. Document requests |
| (3A8) | BITSTRING | 4 | PDRDHTDL | Total Document Created length |
| (3AC) | BITSTRING | 4 | PDRSOBEN | No. Bytes Encrypted |
| (3B0) | BITSTRING | 4 | PDRSOBDE | No. Bytes Decrypted |
| (3B4) | BITSTRING | 4 | PDRIMSRC | Total No. IMS requests |
| (3B8) | BITSTRING | 4 | PDRDBZRC | Total No. DB2 requests |
| (3BC) | BITSTRING | 4 | PDRCHMDC | No. CICS Dispatcher Change Mode's |
| (3C0) | BITSTRING | 4 | PDRTCBAC | No. CICS Dispatcher TCB Attach's |
| (3C4) | BITSTRING | 8 | PDRDIST | User task dispatch time |
| (3CC) | BITSTRING | 8 | PDRCPUT | User task cpu time |
| (3D4) | BITSTRING | 8 | PDRSUST | Task suspend time |
| (3DC) | BITSTRING | 8 | PDRDWT | Dispatch wait time |
| (3E4) | BITSTRING | 8 | PDRQRDSP | User task QR Mode dispatch time |
| (3EC) | BITSTRING | 8 | PDRQRCPU | User task QR Mode cpu time |
| (3F4) | BITSTRING | 8 | PDRMSDSP | User task Other Mode dispatch time |
| (3FC) | BITSTRING | 8 | PDRMSCPU | User task Other Mode cpu time |
| (404) | BITSTRING | 8 | PDRJ8CPU | User task J8 Mode cpu time |
| (40C) | BITSTRING | 8 | PDRJ8CPU | User task J8 Mode cpu time |
| (414) | BITSTRING | 8 | PDRS8CPU | User task S8 Mode cpu time |
| (41C) | BITSTRING | 8 | PDRQRDLY | QR Mode delay time |
| (424) | BITSTRING | 8 | PDRDLY | Max Open TCB delay time |
| (42C) | BITSTRING | 8 | PDREXWT | Exception wait time |
| (434) | BITSTRING | 8 | PDRTCWT | TC i/o wait time |
| (43C) | BITSTRING | 8 | PDRFCWT | FC i/o wait time |
| (444) | BITSTRING | 8 | PDRJCWT | JC i/o wait time |
| (44C) | BITSTRING | 8 | PDRTSWT | TS i/o wait time |
| (454) | BITSTRING | 8 | PDRIRWT | IR i/o wait time |
| (45C) | BITSTRING | 8 | PDRTDWT | TD i/o wait time |
| (464) | BITSTRING | 8 | PDRPCLT | Program load time |
| (46C) | BITSTRING | 8 | PDRFDDLY | 1st Dispatch delay - TCLASS,MXT,etc |
| (474) | BITSTRING | 8 | PDRFDTCL | 1st Dispatch delay due to TCLASS |
| (47C) | BITSTRING | 8 | PDRFDMXT | 1st Dispatch delay due to MXT |
| (484) | BITSTRING | 8 | PDRNQDLY | Local ENQ delay time |
| (48C) | BITSTRING | 8 | PDRGQDLY | Global ENQ delay time |
| (494) | BITSTRING | 8 | PDR61WT | LU61 i/o wait time |
| (49C) | BITSTRING | 8 | PDR62WT | LU62 i/o wait time |
| (4A4) | BITSTRING | 8 | PDRSZWT | FEPI suspend time |
| (4AC) | BITSTRING | 8 | PDRRMIT | Total RMI elapsed time |
| (4B4) | BITSTRING | 8 | PDRRMIS | Total RMI suspend time |
| (4BC) | BITSTRING | 8 | PDRSYNCT | Syncpoint elapsed time |
| (4C4) | BITSTRING | 8 | PDRRLSWT | RLS wait time |
| (4CC) | BITSTRING | 8 | PDRRLSCP | RLS SRB CPU time |
| (4D4) | BITSTRING | 8 | PDRMLDLY | Lock Mgr delay time |
| (4DC) | BITSTRING | 8 | PDRWTXWT | External wait time |
| (4E4) | BITSTRING | 8 | PDRWCEWT | Cics/Event wait time |
| (4EC) | BITSTRING | 8 | PDRICDLY | Interval control delay time |
| (4F4) | BITSTRING | 8 | PDRGVPWT | Give up control wait time |
| (4FC) | BITSTRING | 8 | PDRTSHWT | Shared TS wait time |
| (504) | BITSTRING | 8 | PDRCDTWT | CF Data Table wait time |
| (50C) | BITSTRING | 8 | PDRSYWTT | Server Syncpoint wait time |
| (514) | BITSTRING | 8 | PDRRRSWT | RRMS/MVS wait time |
| (51C) | BITSTRING | 8 | PDRRTRWT | Run Transaction wait time |
| (524) | BITSTRING | 8 | PDRSYDLY | Syncpoint delay time |
| (52C) | BITSTRING | 8 | PDRSOWT | Socket I/O wait time |
| (534) | BITSTRING | 8 | PDRIMSWT | IMS wait time |
| (53C) | BITSTRING | 8 | PDRRDQWT | DB2 Readyq wait time |
| (544) | BITSTRING | 8 | PDRCONWT | DB2 Connection wait time |
| (54C) | BITSTRING | 8 | PDRDB2WT | DB2 wait time |
| (554) | BITSTRING | 8 | PDRJVMT | Total JVM elapsed time |
| (55C) | BITSTRING | 8 | PDRJVMS | Total JVM suspend time |
| (564) | FULLWORD | 4 | PDRUEND (0) | |
| (564) | | | MNPDRLEN | --"DFHMPDA" Performance Data Record length |

PEP Program error program commarea

Module Name = DFHPCOMS
 Descriptive Name = Commarea for User Program Error Program
 Function =
 Commarea for PEP; created by DFHACP, passed to User PEP
 Notes:
 Dependencies = S/370
 Restrictions = none
 Register Conventions = none
 Patch Label = none
 Module Type = copy
 Attributes = copy
 Entry Point = none
 Purpose = copybook
 Linkage = none
 Input = none
 Output = none
 Exit-normal = none
 Exit-error = none
 External References =
 Routines =
 Data Areas = none
 Control Blocks = none
 Global Variables = none
 Tables = none
 Macros =
 Description
 Copybook for Commarea for User's Program Error Program

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|---|
| (0) | STRUCTURE | 196 | DFHPEP_COMMAREA | |
| Standard header section | | | | |
| (0) | CHARACTER | 4 | PEP_COM_STANDARD | |
| (0) | CHARACTER | 1 | PEP_COM_FUNCTION | always '1' |
| (1) | CHARACTER | 2 | PEP_COM_COMPONENT | always 'PC' |
| (3) | CHARACTER | 1 | PEP_COM_RESERVED | Reserved |
| Abend codes and EIB | | | | |
| (4) | CHARACTER | 4 | PEP_COM_CURRENT_ABEND_CODE | current abcode |
| (8) | CHARACTER | 4 | PEP_COM_ORIGINAL_ABEND_CODE | original abcode |
| (C) | CHARACTER | 85 | PEP_COM_USERS_EIB | EIB at abend |
| Debugging information | | | | |
| (64) | CHARACTER | 84 | PEP_COM_DEBUG | |
| (64) | CHARACTER | 8 | PEP_COM_ABPROGRAM | ABENDING program |
| (6C) | CHARACTER | 8 | PEP_COM_PSW | PSW at abend |
| (74) | UNSIGNED | 4 | PEP_COM_REGISTERS (16) | regs at abend |
| (B4) | UNSIGNED | 1 | PEP_COM_KEY | execution key in form x'0n' (ASRA and ASRB) |
| (B5) | UNSIGNED | 1 | PEP_COM_STORAGE_HIT | storage hit by 0C4 (ASRA only) |
| (B6) | UNSIGNED | 1 | PEP_COM_SPACE | sub/basespce@L3C |
| (B7) | CHARACTER | 1 | PEP_COM_PADDING | Reserved |
| Return code - return ok or disable transaction | | | | |
| (B8) | UNSIGNED | 4 | PEP_COM_RETURN_CODE | |
| Additional PSW EC mode information | | | | |
| (BC) | CHARACTER | 8 | PEP_COM_INT | PSW interrupt codes |

Constants

| Len | Type | Value | Name | Description |
|-----------------------------|---------|-------|------------------------|------------------|
| 4 | DECIMAL | 4 | PEP_COM_RETURN_DISABLE | disable |
| 4 | DECIMAL | 0 | PEP_COM_RETURN_OK | ok |
| PEP_COM_STORAGE_HIT values | | | | |
| 1 | DECIMAL | 0 | PEP_COM_NO_HIT | No hit or no 0C4 |
| 1 | DECIMAL | 1 | PEP_COM_CDSA_HIT | CDSA hit |
| 1 | DECIMAL | 2 | PEP_COM_ECDSA_HIT | ECDSA hit |
| 1 | DECIMAL | 3 | PEP_COM_ERDSA_HIT | ERDSA hit |
| 1 | DECIMAL | 4 | PEP_COM_RDSA_HIT | RDSA hit |
| 1 | DECIMAL | 5 | PEP_COM_EUDSA_HIT | EUDSA hit |
| 1 | DECIMAL | 6 | PEP_COM_UDSA_HIT | UDSA hit |
| PEP_COM_KEY values | | | | |
| 1 | DECIMAL | 9 | PEP_COM_USER_KEY | USER key |
| 1 | DECIMAL | 8 | PEP_COM_CICS_KEY | CICS key |
| PEP_COM_SPACE_ACTIVE values | | | | |
| 1 | DECIMAL | 10 | PEP_COM_SUBSPACE | Error in s/space |
| 1 | DECIMAL | 11 | PEP_COM_BASESPACE | Error in b/space |

PFT Profile table entry

```

CONTROL BLOCK NAME = DFHPPFPS
DESCRIPTIVE NAME = CICS (KC) Profile support
FUNCTION = Define the profile DSECT
    Although the profile is logically an extension to
    the terminal, it is owned and managed by the KC
    component.
    There is one instance of this control block for each
    profile installed (via RDO) in the system.
    The profile contains terminal control processing
    options to be used by a transaction.
LIFETIME = INSTALL to DISCARD
STORAGE CLASS = DFHSC TYPE=GETMAIN,CLASS=USER
LOCATION = loctaed VIA TMP directory
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = none
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | 42 | DFHPPFPS | |
| (0) | CHARACTER | 42 | PPFED | |
| (0) | CHARACTER | 8 | PPFNAME | PROFILE NAME |
| (8) | UNSIGNED | 2 | PPFENL | ENTRY LENGTH |
| (A) | UNSIGNED | 1 | PPFTYPE | TYPE OF ENTRY, 3=PROFILE |
| (B) | CHARACTER | 1 | * | (SPACER) |
| (C) | BITSTRING | 1 | PPFFLAGS | FLAGS |
| | | | PPFDYNA | ENTRY DYNAMICALLY ADDED |
| | | | * | RESERVED |
| (D) | CHARACTER | 3 | * | RESERVED |
| (10) | CHARACTER | 5 | PPFJINF | 5 BYTES MOVED TO TCTTE |
| (10) | BITSTRING | 1 | PPFMIOAJ | TERMINAL MSG I/O & JOURNAL |
| | | | PPFMFMHA | ALL FMH'S TO APPLICATION |
| | | | PPFMFMHE | (EODS) |
| | | | PPFMIMIO | RESERVED |
| | | | PPFMDLIO | RESERVED |
| | | | PPFMFMHD | (DIP) |
| | | | PPFMMLRQ | LOGICAL REC PRESENT REQUIRED |
| | | | PPFMJLI | AUTO INPUT MSG JOURNALLING |
| | | | PPFMJLO | AUTO OUTPUT MSG JOURNALLING |
| (11) | BITSTRING | 1 | PPFEXTOP | EXTRACT OPTIONS |
| | | | PPFEXNO | EXTRACT=NO |
| | | | PPFEXAT | EXTRACT=ATTACH |
| | | | * | RESERVED |
| | | | * | RESERVED |
| | | | * | RESERVED |
| | | | * | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| |1. | | * | RESERVED |
| |1 | | * | RESERVED |
| (12) | BITSTRING | 1 | PPFOPT2 | EXTRA OPTIONS |
| | 1... | | PPFSRAQ | READ AHEAD QUEUING SUPPORT |
| | .1.. | | PPFUCTRN | UPPER CASE TRANSLATE REQUIRED * |
| | ..1. | | * | RESERVED |
| | ...1 | | * | RESERVED |
| | 1... | | * | RESERVED |
| |1.. | | * | RESERVED |
| |1. | | * | RESERVED |
| |1 | | * | RESERVED |
| (13) | UNSIGNED | 1 | PPFMSJID | TERM MSG JOURNAL FILE ID |
| (14) | UNSIGNED | 1 | PPFNEPC | NODE ERROR PROGRAM CLASS |
| (15) | CHARACTER | 2 | PPFMPCRC | TERMINAL MSG PROT.REQUIRED |
| (15) | BITSTRING | 1 | * | 1ST BYTE |
| (16) | BITSTRING | 1 | PPFMPFLG | 2ND BYTE - SUPPORTED BITS: |
| | 111. | | * | RESERVED |
| | ...1 | | PPFMPCTL | X'10' = CHAIN CONTROL(NOT SPI) |
| | 1... | | * | RESERVED |
| |1.. | | PPFMPMSG | X'04' = MESSAGE INTEGRITY |
| |1. | | * | RESERVED |
| |1 | | PPFMPONW | X'01' = ONE WRITE OPTION |
| (17) | CHARACTER | 2 | PPFMPCOP | TERMINAL MSG PROT.OPTIONAL (NOT SUPPORTED IN SPI) |
| (17) | BITSTRING | 1 | * | 1ST BYTE |
| (18) | BITSTRING | 1 | PPFMFLG | 2ND BYTE - SUPPORTED BITS: |
| | 111. | | * | RESERVED |
| | ...1 | | PPFMOCTL | X'10' = CHAIN CONTROL |
| | 1... | | * | RESERVED |
| |1.. | | PPFMOMSG | X'04' = MESSAGE INTEGRITY |
| |1. | | * | RESERVED |
| |1 | | PPFMOONW | X'01' = ONE WRITE OPTION |
| (19) | UNSIGNED | 2 | * | RESERVED |
| (1B) | CHARACTER | 8 | PPFMODEN | MODENAME |
| (23) | BITSTRING | 1 | PPFMDVSP | TERMINAL DEVICE SUPPORT |
| | 1... | | * | RESERVED |
| | .1.. | | * | RESERVED |
| | ..1. | | * | RESERVED |
| | ...1 | | * | RESERVED |
| | 1... | | * | RESERVED |
| |1.. | | * | RESERVED |
| |1. | | PPFMDVNO | NON-VTAM DEVICES ONLY |
| |1 | | PPFMDVTM | VTAM DEVICES ONLY |
| (24) | UNSIGNED | 1 | PPFTRTO | TERMINAL READ TIMEOUT VALUE |
| (25) | BITSTRING | 1 | PPFSCS | SCREEN SIZE SELECTION |
| | 1... | | * | RESERVED |
| | .1.. | | * | RESERVED |
| | ..1. | | * | RESERVED |
| | ...1 | | * | RESERVED |
| | 1... | | PPFSCSA | ALTERNATE SCREEN SIZE |
| |1.. | | * | RESERVED |
| |1. | | PPFPRTCM | PRINTER COMPATIBILITY |
| |1 | | * | RESERVED |
| (26) | CHARACTER | 4 | PPFFACK | FACILITYLIKE |

PGA BMS page control area DSECT

MODULE NAME = DFHPGADS
 DESCRIPTIVE NAME = CICS BMS PAGE CONTROL AREA DSECT
 FUNCTION = DEFINE THE BMS PAGE CONTROL AREA. THIS IS APPENDED BY DFHTPP TO THE END OF A PAGE OF DATASTREAM. TIOATDL EXCLUDES THE PGA, AND CAN THEREFORE BE USED TO ADDRESS IT.
 THE PGA CONTAINS THE WCC AND ERASE FLAG FOR THE PAGE, AND INDICATES WHICH EXTENDED ATTRIBUTES ARE USED IN THIS PAGE.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | DFHPGADS | DUMMY SECTION-PAGE CONTROL AREA @ NO BASE REGISTER ESTABLISHED |
| (0) | BITSTRING | 1 | PGAEAUS2 | KJ EXT ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUS2 |
| (1) | BITSTRING | 1 | PGAEAUSE | EXTENDED ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUSE |
| (2) | BITSTRING | 1 | PGAFLAG | PAGE CONTROL FLAG @ |
| | 1... .. | | PGAERASE | "X'80" ...ERASE WITH WRITE @ |
| | .1.. .. | | GAOBFYS | "X'40" ...OBF USED IN THIS PAGE |
| | .1.. .. | | GAFF | "X'40" ...FORM FEED ON THIS PAGE |
| | ..1. | | PGAML1 | "X'20" ...ML1 FORMATTED THIS PAGE |
| |1.. | | PGA16BIT | "X'04" ...14- OR 16-BIT SBAS |
| |1. | | GAWSFYS | "X'02" ...WSF NEEDED FOR THIS PAGE |
| |1 | | GAFMHYS | "X'01" ...FMH PRESENT IN THIS PAGE |
| (3) | BITSTRING | 1 | GAWCC | 3270 WRITE CONTROL CHARACTER @ |
| |1.. | | GAEND | "*" END OF PAGE CONTROL AREA @ |
| |1.. | | GALEN | "PGAEND-DFHPGADS" LENGTH OF DSECT @ |

PGACC Program manager autoinstall commarea

CONTROL BLOCK NAME = DFHPGACC
 DESCRIPTIVE NAME = CICS/ESA (PG) Program Manager Autoinstall
 exit program parameter list

FUNCTION = Defines the commarea passed by the Program Manager
 autoinstall function to the autoinstall exit program.
 The PGAC control block belongs to the Program Manager (PG)
 domain. The control block is used to pass the name of the
 program and the module type to the exit program and enables
 the user to return information for the program to be
 autoinstalled. Storage for the control block is obtained
 by the autoinstall function (DFHPGAI).

LIFETIME =
 The control block is created when the autoinstall function
 (DFHPGAI) is called. The storage is released on return
 from the autoinstall function.

STORAGE CLASS =
 The control block uses the automatic storage for DFHPGAI.
 This storage is above the line.

LOCATION =
 In the automatic storage for DFHPGAI at the label PGAC.
 The address and length of the control block are passed
 to the program autoinstall exit program via the commarea.

NOTES :
 This control block is provided as a sample and is not to be
 used as a general programming interface. Refer to the
 CICS/ESA Customisation Guide to determine its intended
 usage.
 Matching COBOL control block is DFHPGACC
 Matching C control block is DFHPGACH
 The control block includes the following fields:
 Input fields:
 PGAC_PROGRAM - name of program to be autoinstalled
 PGAC_MODULE_TYPE - program, mapset or partitionset
 Output fields:
 PGAC_MODEL_NAME - autoinstall model program name
 PGAC_LANGUAGE - assembler, cobol, C370, LE370, PL/I
 PGAC_CEDF_STATUS - cedf status, yes or no
 PGAC_DATA_LOCATION - data location, below or any
 PGAC_EXECUTION_KEY - execution key, CICS or user
 PGAC_LOAD_ATTRIBUTE - reload, transient, resident, reusable
 PGAC_USE_LPA_COPY - use LPA copy, yes or no
 PGAC_EXECUTION_SET - use DPL subset or full API
 PGAC_REMOTE_SYSID - remote system ID
 PGAC_REMOTE_PROGID - remote program name
 PGAC_REMOTE_TRANSID - remote transaction ID
 PGAC_DYNAMIC_STATUS - DPL dynamic or not dynamic
 PGAC_CONCURRENCY - QUASIRENT or THREADSAFE
 PGAC_JVM - the program is to be run under the JVM
 PGAC_JVM_DEBUG - JVM debug active for this program
 PGAC_JVM_CLASS_LENGTH - length of JVM class name data
 PGAC_JVM_CLASS_DATA - the JVM class name data
 PGAC_RETURN_CODE - OK, or don't define the program
 The return fields are initialized to blank on entry to the
 autoinstall exit program.
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = No fields in the operating system data areas
 are referenced.
 CONTROL BLOCKS = No reference to other control blocks.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|-------------|
| (0) | STRUCTURE | 303 | PGAC | |
| (0) | CHARACTER | 8 | PGAC_PROGRAM | |
| (8) | CHARACTER | 1 | PGAC_MODULE_TYPE | |
| (9) | CHARACTER | 294 | PGAC_RETURN_ | |
| | | | INFORMATION | |
| (9) | CHARACTER | 8 | PGAC_MODEL_NAME | |
| (11) | CHARACTER | 1 | PGAC_LANGUAGE | |
| (12) | CHARACTER | 1 | PGAC_CEDF_STATUS | |
| (13) | CHARACTER | 1 | PGAC_DATA_LOCATION | |
| (14) | CHARACTER | 1 | PGAC_EXECUTION_KEY | |
| (15) | CHARACTER | 1 | PGAC_LOAD_ATTRIBUTE | |
| (16) | CHARACTER | 1 | PGAC_USE_LPA_COPY | |
| (17) | CHARACTER | 1 | PGAC_EXECUTION_SET | |
| (18) | CHARACTER | 4 | PGAC_REMOTE_SYSID | |
| (1C) | CHARACTER | 8 | PGAC_REMOTE_PROGID | |
| (24) | CHARACTER | 4 | PGAC_REMOTE_TRANSID | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|-------------|
| (28) | CHARACTER | 1 | PGAC_RETURN_CODE | |
| (29) | CHARACTER | 1 | PGAC_DYNAMIC_STATUS | |
| (2A) | CHARACTER | 1 | PGAC_CONCURRENCY | |
| (2B) | CHARACTER | 1 | PGAC_JVM | |
| (2C) | HALFWORD | 2 | PGAC_JVM_CLASS_LEN | |
| (2E) | CHARACTER | 256 | PGAC_JVM_CLASS_DATA | |
| (12E) | CHARACTER | 1 | PGAC_JVM_DEBUG | |

Constants

| Len | Type | Value | Name | Description |
|--------------------------------|-----------|-------|---------------------------------|-------------|
| 1 | CHARACTER | 1 | PGAC_TYPE_PROGRAM | |
| 1 | CHARACTER | 2 | PGAC_TYPE_MAPSET | |
| 1 | CHARACTER | 3 | PGAC_TYPE_PARTITIONSET | |
| Constants for language. | | | | |
| 1 | CHARACTER | 1 | PGAC_ASSEMBLER | |
| 1 | CHARACTER | 2 | PGAC_COBOL | |
| 1 | CHARACTER | 3 | PGAC_PLI | |
| 1 | CHARACTER | 4 | PGAC_C370 | |
| 1 | CHARACTER | 5 | PGAC_LE370 | |
| Constants for CEDF status. | | | | |
| 1 | CHARACTER | 1 | PGAC_CEDF_YES | |
| 1 | CHARACTER | 2 | PGAC_CEDF_NO | |
| Constants for data location. | | | | |
| 1 | CHARACTER | 1 | PGAC_LOCATION_BELOW | |
| 1 | CHARACTER | 2 | PGAC_LOCATION_ANY | |
| Constants for execution key. | | | | |
| 1 | CHARACTER | 1 | PGAC_CICS_KEY | |
| 1 | CHARACTER | 2 | PGAC_USER_KEY | |
| Constants for load attribute. | | | | |
| 1 | CHARACTER | 1 | PGAC_RELOAD | |
| 1 | CHARACTER | 2 | PGAC_RESIDENT | |
| 1 | CHARACTER | 3 | PGAC_TRANSIENT | |
| 1 | CHARACTER | 4 | PGAC_REUSABLE | |
| Constants for LPA status. | | | | |
| 1 | CHARACTER | 1 | PGAC_LPA_YES | |
| 1 | CHARACTER | 2 | PGAC_LPA_NO | |
| Constants for execution set. | | | | |
| 1 | CHARACTER | 1 | PGAC_DPLSUBSET | |
| 1 | CHARACTER | 2 | PGAC_FULLAPI | |
| Constants for DYNAMIC status. | | | | |
| 1 | CHARACTER | 1 | PGAC_DYNAMIC_YES | |
| 1 | CHARACTER | 2 | PGAC_DYNAMIC_NO | |
| Constants for CONCURRENCY | | | | |
| 1 | CHARACTER | 1 | PGAC_QUASIRENT | |
| 1 | CHARACTER | 2 | PGAC_THREADSAFE | |
| Constants for JVM | | | | |
| 1 | CHARACTER | 1 | PGAC_JVM_YES | |
| 1 | CHARACTER | 2 | PGAC_JVM_NO | |
| Constants for JVM DEBUG | | | | |
| 1 | CHARACTER | 1 | PGAC_JVM_DEBUG_YES | |
| 1 | CHARACTER | 2 | PGAC_JVM_DEBUG_NO | |
| Constants for the return code. | | | | |
| 1 | CHARACTER | 1 | PGAC_RETURN_OK | |
| 1 | CHARACTER | 2 | PGAC_RETURN_DONT_DEFINE_PROGRAM | |

PGGPC Program manager statistics

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|---|
| (0) | STRUCTURE | 20 | DFHPPGSPS | pg global stats |
| (0) | HALFWORD | 2 | PGG_STATS_LENGTH | length of record |
| (2) | HALFWORD | 2 | PGG_STATS_ID | pg global stats id, should contain pgg_dcl_id |
| (4) | UNSIGNED | 1 | PGG_STATS_VERSION | pg global stats version |
| (5) | UNSIGNED | 3 | * | filler |
| (8) | FULLWORD | 4 | PGG_AUTO_ATTEMPTS | number of autoinstalls attempted |
| (C) | FULLWORD | 4 | PGG_AUTO_REJECTS | number of autoinstalls rejected |
| (10) | FULLWORD | 4 | PGG_AUTO_FAILURES | number of autoinstalls failed |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------|----------------------------|
| 1 | HEX | 01 | PGG_DCL_VERSION | version number |
| 2 | DECIMAL | 23 | PGG_DCL_ID | PG global id statistics id |

PLT Program list table entry

CONTROL BLOCK NAME = DFHPLTDS
 DESCRIPTIVE NAME = CICS Program List Table Entry
 FUNCTION =
 Defines an entry in a PLT, a list of programs to be
 invoked.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHPLTDS | DUMMY SECTION - PGM LIST TABLE |
| (0) | CHARACTER | 8 | PLTPID | PROGRAM IDENTIFICATION |
| | 1... | | PLTEL | "(*-PLTPID)" PGM LST TABLE ENTRY LENGTH |

PSD Partition set definition block

MODULE NAME = DFHPSDDS
 DESCRIPTIVE NAME = CICS PARTITION SET DEFINITION DSECT
 DUAL LANGUAGE DSECT
 FUNCTION = DEFINES THE PARTITION SET OBJECT. THIS IS BUILT BY THE MACROS DFHPSD AND DFHPDI. IT IS SUFFIXED AND STORED IN THE CICS/VS PROGRAM LIBRARY WITH A PPT ENTRY. IT IS LOADED INTO MAIN MEMORY BY DFHMCP

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = STRUCTURE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 30 | DFHPSDDS | DUMMY SECTION - PARTITION SET DESCRIPTION |
| (0) | CHARACTER | | PSDSTART | START OF DEFINITION |
| Partition Set Header Description | | | | |
| (0) | HALFWORD | 2 | PSDPSETL | PARTITION SET LENGTH |
| (2) | CHARACTER | 2 | * | BLANK SO PARTITION SET IS CORRECT FORMAT FOR OUTPUT TO CICS TEMP STORAGE |
| (4) | HALFWORD | 2 | PSDPSL | PARTITION SET HEADER LENGTH OF PARTITION SET HEADER |
| (6) | CHARACTER | 8 | PSDSLFD | STRING "DFHPSD" IDENTIFIES OBJECT AS A PARTITION SET |
| (E) | CHARACTER | 7 | PSDPSNME | PARTITION SET NAME |
| (15) | CHARACTER | 1 | PSDPSSF | PARTITION SET SUFFIX, USED FOR PARTITION SET SELECTION BLANK IF NOT SUFFIXED |
| (16) | HALFWORD | 2 | PSDPNUM | NUMBER OF PARTITIONS IN THIS PARTITION SET |
| (18) | HALFWORD | 2 | PSDUACOL | ALTSCRN COLUMNS |
| (1A) | HALFWORD | 2 | PSDUALNE | ALTSCRN LINES |
| (1C) | CHARACTER | 1 | PSDCICSV | CICS/VS VERSION ON WHICH THE PARTITION SET WAS ASSEMBLED |
| (1D) | BITSTRING | 1 | PSDPSFLG | FLAG BYTE |
| | 1... .. | | PSDPSERR | THIS PARTITION SET CONTAINS A CICS/VS ERROR MESSAGE PARTITION |

PARTITION DESCRIPTION
 TWO RECORD FOR EACH PARTITION IN THIS PARTITION SET
 THE FIRST RECORD CONTAINS CICS/VS SPECIFIC DATA. THE SECOND RECORD IS A COPY OF THE CREATE PARTITION STRUCTURED FIELD

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 6 | PSDPCICS | |
| CICS SPECIFIC PARTITION DATA | | | | |
| (0) | HALFWORD | 2 | PSDCICSL | LENGTH OF CICS/VS DATA |
| (2) | CHARACTER | 2 | PSDCINME | THE PARTITION NAME |
| (4) | BITSTRING | 1 | PSDCIFLG | PARTITION FLAGS 1 |
| | 1... .. | | PSDCIERR | THIS IS A CICS/VS ERROR MESSAGE PARTITION |
| (5) | CHARACTER | 1 | PSDMPFSX | BMS MAPSET SUFFIX |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (0) | STRUCTURE | 30 | PSDPCRT | |
| COPY OF THE ARCHITECTED CREATE PARTITION STRUCTURED FIELD THIS CAN BE SENT UNCHANGED TO THE TERMINAL | | | | |
| (0) | HALFWORD | 2 | PSDPL | LENGTH OF CREATE PARTITION STRUCTURED FIELD |
| (2) | CHARACTER | 1 | PSDPTYPE | STRUCTURED FIELD TYPE |
| (3) | CHARACTER | 1 | PSDPID | HARDWARE PARTITION-ID |
| (4) | BITSTRING | 1 | PSDPAM | FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE |
| | 1... .. | | * | |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | ...1 | | PSDUMPEL | UNIT OF MEASURE IS PELS |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | PSDAM16 | ADDRESS MODE IS 16 BIT |
| (5) | BITSTRING | 1 | PSDPFLG | FLAG BYTE |
| | 1... .. | | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | .1.. | | PSDPPROT | PARTITION IS PROTECTED |
| (6) | CHARACTER | 2 | PSDPBUFH | HEIGHT OF THE PARTITION BUFFER |
| (8) | CHARACTER | 2 | PSDPBUFV | WIDTH OF THE PARTITION BUFFER |
| (A) | CHARACTER | 2 | PSDVIEWR | ROW ORIGIN OF THE PARTITION VIEWPORT |
| (C) | CHARACTER | 2 | PSDVIEWC | COLUMN ORIGIN OF THEPARTITION VIEWPORT |
| (E) | CHARACTER | 2 | PSDVIEWH | VIEWPORT HEIGHT |
| (10) | CHARACTER | 2 | PSDVIEWW | VIEWPORT WIDTH |
| (12) | CHARACTER | 2 | PSDWNDR | INITIAL WINDOW POSITION ROW |
| (14) | CHARACTER | 2 | PSDWNDC | INITIAL WINDOW POSITION COL |
| (16) | CHARACTER | 2 | PSDSCRR | VERTICAL SCROLL AMOUNT |
| (18) | CHARACTER | 2 | PSDSCRC | HORIZONTAL SCROLL AMOUNT |
| (1A) | CHARACTER | 2 | PSDCELLW | CHARACTER CELL PEL WIDTH |
| (1C) | CHARACTER | 2 | PSDCELLH | CHARACTER CELL PEL HEIGHT |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|----------------------------|
| 1 | HEX | 07 | PSDC160 | CICS/VS 160 |
| 1 | HEX | 0C | PSDPCR | CREATE PARTITION TYPE CODE |
| 1 | HEX | 00 | PSDUMCHR | UNIT OF MEASURE IS CHARS |
| 1 | HEX | 00 | PSDAM12 | ADDRESS MODE IS 12/14 BIT |

PSG System spooling interface

| |
|--|
| CONTROL BLOCK NAME = DFHPSGSPS DESCRIPTIVE NAME = CICS System Spooling Interface Global Control Block. FUNCTION = DFHPSGSPS (PSG) is the master control block for the System Spooling Interface facility. Description PSG - This Block contains the central control information through which the System Spooling Interface works. It is anchored from CSAPSCBA in the CSA Optional Features List. LIFETIME = If SPOOL=YES is specified at CICS Initialization, then control will be passed to DFHPSIP from DFHSIJ1. PSIP will construct and initialize DFHPSGSPS, which will remain in existence all the time that CICS is running. STORAGE CLASS = shared LOCATION = Chained off CSA optional features list by CSAPSCBA INNER CONTROL BLOCKS = NONE NOTES : DEPENDENCIES = S/370 RESTRICTIONS = NONE MODULE TYPE = PLS copy-book EXTERNAL REFERENCES = none DATA AREAS = none CONTROL BLOCKS = none GLOBAL VARIABLES (Macro pass) = none getmaind by JES as commarea |
|--|

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 208 | DFHPSGSPS | |
| (0) | CHARACTER | 4 | * | Storage accounting area |
| (4) | CHARACTER | 8 | PSGID | Control block ID - DFHPSGSPS. The following VSAM info. is used by DFHPSIP & DFHPSPSS: |
| (C) | HALFWORD | 2 | PSGACBL | Length of VSAM ACB |
| (E) | HALFWORD | 2 | PSGRPLL | Length of VSAM RPL |
| (10) | HALFWORD | 2 | PSGEXLL | Length of VSAM EXIT LIST |
| (12) | HALFWORD | 2 | * | Reserved |
| (14) | FULLWORD | 4 | PSGOPNCT | Count of JES files OPEN-ed |
| (18) | FULLWORD | 4 | PSGCLSCT | Count of JES files CLOSE-ed |
| (1C) | ADDRESS | 4 | * | Reserved |
| (20) | ADDRESS | 4 | * | Reserved |
| (24) | FULLWORD | 4 | PSGNXTK | Next Report Token |
| (28) | CHARACTER | 4 | PSGJTFL | Job transfer flags |
| (28) | CHARACTER | 1 | PSGTHRD | In-Use flag for SGL thread |
| (29) | CHARACTER | 3 | * | Reserved |
| (2C) | CHARACTER | 4 | * | |
| (2C) | BITSTRING | 1 | PSGFE | Extra service facilities |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | 1... .. | | PSGFETR | Additional trace required |
| | .111 111. | | * | Reserved |
| |1 | | PSGFECH | Enable FE Chain checking |
| (2D) | CHARACTER | 3 | * | Reserved |
| (30) | ADDRESS | 4 | PSGCRB | Reserved |
| (34) | ADDRESS | 4 | PSGCSAA | CSA address save area |
| (38) | HALFWORD | 2 | PSGOSLC | Operating system lines per page |
| (3A) | CHARACTER | 8 | PSGFLGS | CICS Sub-system Interface control status flags |
| (3A) | CHARACTER | 1 | PSGIACT | CICS SSI is active/enabled |
| (3B) | CHARACTER | 1 | PSGIENA | CICS SSI is being enabled |
| (3C) | CHARACTER | 1 | PSGIDIS | CICS SSI is being disabled |
| (3D) | CHARACTER | 1 | PSGITRM | CICS SSI is being terminated |
| (3E) | CHARACTER | 1 | PSGIDIP | Reserved |
| (3F) | CHARACTER | 1 | PSGIDPP | Reserved |
| (40) | CHARACTER | 1 | PSGCLAS | Reserved |
| (41) | CHARACTER | 1 | PSGYSYSID | Reserved |
| (42) | CHARACTER | 2 | * | Reserved |
| (44) | ADDRESS | 4 | PSGRRB | Reserved |
| (48) | ADDRESS | 4 | PSGTRB | Reserved |
| (4C) | ADDRESS | 4 | PSGW RB | Reserved |
| (50) | ADDRESS | 4 | * | Reserved |
| (54) | ADDRESS | 4 | * | Reserved |
| (58) | ADDRESS | 4 | * | Reserved |
| (5C) | CHARACTER | 47 | PSGSTAT | CICS SSI statistics area |
| (5C) | CHARACTER | 3 | PSGSCR S | Reserved |
| (5F) | CHARACTER | 3 | PSGSCR R | Reserved |
| (62) | CHARACTER | 3 | PSGSCR C | Reserved |
| (65) | CHARACTER | 4 | PSGSOR | Reserved |
| (69) | CHARACTER | 3 | PSGSERS | Reserved |
| (6C) | CHARACTER | 3 | PSGSERC | Reserved |
| (6F) | CHARACTER | 3 | PSGSLR | Reserved |
| (72) | CHARACTER | 3 | PSGSP I | Reserved |
| (75) | CHARACTER | 3 | PSGST D | Reserved |
| (78) | CHARACTER | 3 | PSGSE R | Reserved |
| (7B) | CHARACTER | 4 | PSGDDAT | Date SSI last ended |
| (7F) | CHARACTER | 4 | PSGDTIM | Time SSI last ended |
| (83) | CHARACTER | 4 | PSGEDAT | Date SSI last started |
| (87) | CHARACTER | 4 | PSGETIM | Time SSI last started |
| (8B) | CHARACTER | 10 | PSGIDENT | Reserved |
| (8B) | CHARACTER | 8 | PSGXIDK | Reserved |
| (93) | CHARACTER | 2 | PSGITID | Reserved |
| (95) | BITSTRING | 1 | PSGNFYE | Reserved |
| (96) | CHARACTER | 3 | * | Reserved |
| (9C) | ADDRESS | 4 | PSGCXPB | CXPB TCA address |
| (A0) | CHARACTER | 44 | PSGIDSN | Input DSNNAME |
| (CC) | ADDRESS | 4 | * | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|--------|--------------|
| 1 | HEX | FF | PSGON | Flag is on. |
| 1 | HEX | 00 | PSGOFF | Flag is off. |

PSP Printer spooling subsystem

MODULE NAME = DFHPSPPS
 DESCRIPTIVE NAME = CICS Printer Spooling Subsystem
 Function =
 DFHPSPPS is the parameter area map for the interface
 to DFHPSP etc.
 Dependencies = S/370
 Restrictions = none
 Register conventions = N/A
 Patch label = N/A
 Module type = PLS copy-book
 Attributes = N/A
 Entry point = N/A

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 120 | DFHPSPPS | DFHPS Macro Parameter Area. |
| (0) | UNSIGNED | 1 | PSPREQ | Request Code. |
| (1) | BITSTRING | 1 | PSPQUAL | Reserved |
| | 1... .. | | PSPQNTFY | Reserved |
| | .1. | | PSPQANY | Reserved |
| | ..1. | | PSPQCMD | Reserved |
| | ...1 1111 | | * | Reserved |
| (2) | BITSTRING | 1 | PSPOPT1 | Option 1 indicators. |
| | 1... .. | | PSPWCHCK | Reserved |
| | .1. | | PSPRGIN | Reserved |
| | ..1. | | PSPRSEP | Reserved |
| | ...1 | | PSPRNSEP | Reserved |
| | 1... | | PSPRNCV | Reserved |
| |1.. | | PSPRFAIL | Reserved |
| |1. | | PSPRCONT | Reserved |
| |1 | | PSPRRESM | Reserved |
| (3) | BITSTRING | 1 | PSPOPT2 | Option 2 Indicators. |
| | 1... .. | | PSPRHDN | Reserved |
| | .1. | | PSPRFTN | Reserved |
| | ..1. | | PSPRNONM | Reserved |
| | ...1 | | PSPRDTTM | Reserved |
| | 1... | | PSPRPHYS | Reserved |
| |1.. | | PSPRLOGL | Reserved |
| |1. | | PSPROUT | OPEN/CLOSE for Output. |
| |1 | | PSPRINP | OPEN/CLOSE for Input. |
| (4) | BITSTRING | 1 | PSPOPT3 | Option 3 Indicators. |
| | 1... .. | | PSPBASE | Base call |
| | .1. | | PSPREST | Reserved |
| | ..1. | | PSPMAPO | Reserved |
| | ...1 | | PSPDWE | Reserved |
| | 1... | | PSPHLPI | Reserved |
| |1. | | PSPYMES | Reserved |
| |1 | | PSPNMES | Reserved |
| |1 | | * | Reserved |
| (5) | BITSTRING | 1 | PSPOPT4 | Option 4 Indicators. |
| | 1... .. | | PSPRSCS | Reserved |
| | .1. | | PSPRBMS | Reserved |
| | ..1. | | PSPR327 | Reserved |
| | ...1 | | PSPRAPA | CPDS Data Stream |
| | 1... | | PSPRESC | Reserved |
| |1. | | PSPRASA | ASA Format |
| |1. | | PSPRMCC | Machine Format |
| |1 | | PSPRNCC | No CC Format |
| (6) | BITSTRING | 1 | PSPOPT5 | Option 5 Indicators. |
| (6) | BITSTRING | 1 | * | Reserved |
| (7) | BITSTRING | 1 | PSPQUE | Reserved |
| | 1... .. | | PSPQLST | Reserved |
| | .1. | | PSPQRDR | Reserved |
| | ..1. | | PSPQPUN | Reserved |
| | ...1 | | PSPQXMIT | Reserved |
| | 1... | | PSPQPRTR | Reserved |
| |111 | | * | Reserved |
| (8) | BITSTRING | 1 | PSPCBOPT | Reserved |
| (9) | BITSTRING | 1 | PSPDISPS | Reserved |
| | 1... .. | | PSPDHOLD | Reserved |
| | .1. | | PSPDACT | Reserved |
| | ..1. | | PSPDRDY | Reserved |
| | ...1 | | PSPDERR | Reserved |
| | 1... | | PSPDRES | Reserved |
| |1. | | PSPDKEP | Reserved |
| |1. | | PSPDLVE | Reserved |
| |1 | | PSPDERRP | Reserved |
| (A) | UNSIGNED | 1 | PSPCOPY | Reserved |
| (B) | UNSIGNED | 1 | PSPPRI | Reserved |
| (C) | UNSIGNED | 1 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (D) | UNSIGNED | 1 | PSPPGSZ | Reserved |
| (E) | CHARACTER | 1 | PSPCLASS | CLASS Character. |
| (F) | UNSIGNED | 1 | * | Reserved |
| (10) | BITSTRING | 1 | PSPDISP | DISPOSITION to be set. |
| (11) | CHARACTER | 1 | PSPNCLSS | Reserved |
| (12) | UNSIGNED | 2 | PSPNLNG | Reserved |
| (14) | ADDRESS | 4 | PSPFORMS | Reserved |
| (18) | ADDRESS | 4 | PSPMPST | Reserved |
| (1C) | ADDRESS | 4 | PSPTOKEN | Pointer to token value. |
| (20) | ADDRESS | 4 | PSPREPNM | Reserved |
| (24) | ADDRESS | 4 | PSPDATA | Pointer to Data Area |
| (28) | ADDRESS | 4 | PSPLENG | Length WRITE/READ |
| (2C) | ADDRESS | 4 | PSPMLNG | Max Length READ or OPEN Recordlength |
| (30) | ADDRESS | 4 | PSPMAP | Reserved |
| (34) | ADDRESS | 4 | PSPUSRID | Pointer to User Id. |
| (38) | ADDRESS | 4 | PSPESCP | Reserved |
| (3C) | ADDRESS | 4 | PSPNODE | Pointer to Node Name. |
| (40) | ADDRESS | 4 | PSPFDATE | Reserved |
| (44) | FULLWORD | 4 | PSPREPLN | Reserved |
| (48) | ADDRESS | 4 | PSPREPBF | Reserved |
| (4C) | ADDRESS | 4 | PSPUSDTA | Reserved |
| (50) | FULLWORD | 4 | PSPREC# | Reserved |
| (54) | UNSIGNED | 1 | PSPPDISP | Reserved |
| | 1... .. | | PSPPPRNT | Reserved |
| | .1. | | PSPPSTOP | Reserved |
| | .1. | | PSPPWAIT | Reserved |
| | ...1 | | PSPPIUSE | Reserved |
| | 1... | | PSPPALN | Reserved |
| |1.. | | PSPPOOS | Reserved |
| |1.. | | PSPPPAUD | Reserved |
| |1 | | * | Reserved |
| (55) | UNSIGNED | 1 | PSPPACT1 | Reserved |
| | 1... .. | | PSPPSRT | Reserved |
| | .1. | | PSPPSTPC | Reserved |
| | .1. | | PSPPSTPN | Reserved |
| | ...1 | | PSPPALGN | Reserved |
| | 1... | | PSPPAUS | Reserved |
| |1.. | | PSPRESM | Reserved |
| |1 | | PSPSTPR | Reserved |
| |1 | | PSPPCONF | Reserved |
| (56) | UNSIGNED | 1 | PSPPACT2 | Reserved |
| | 1... .. | | PSPPSETU | Reserved |
| | .1. | | PSPPDISC | Reserved |
| | ..11 1... | | * | Reserved |
| |1.. | | PSPPINQ | Reserved |
| |11 | | * | Reserved |
| (57) | UNSIGNED | 1 | * | Reserved |
| (58) | ADDRESS | 4 | PSPPRNM | Reserved |
| (5C) | ADDRESS | 4 | PSPTITLE | Reserved |
| (60) | ADDRESS | 4 | PSPHEAD | Reserved |
| (64) | ADDRESS | 4 | PSPFOOT | Reserved |
| (68) | ADDRESS | 4 | PSPSTPG | Reserved |
| (6C) | ADDRESS | 4 | PSPEDPG | Reserved |
| (70) | ADDRESS | 4 | PSPALPG | Reserved |
| (74) | ADDRESS | 4 | PSPOTDES | Ptr. to OUTDES LIST |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|-------------|
| 1 | DECIMAL | 1 | PSPTALT | Reserved |
| 1 | DECIMAL | 2 | PSPTBLD | Reserved |
| 1 | DECIMAL | 3 | PSPTCLSE | CLOSE |
| 1 | DECIMAL | 4 | PSPTDLTE | Reserved |
| 1 | DECIMAL | 5 | PSPTDISL | DISABLE |
| 1 | DECIMAL | 6 | PSPTENBL | ENABLE |
| 1 | DECIMAL | 7 | PSPTENBR | Reserved |
| 1 | DECIMAL | 8 | PSPTGNXT | Reserved |
| 1 | DECIMAL | 9 | PSPTINIT | Reserved |
| 1 | DECIMAL | 10 | PSPTLOC | Reserved |
| 1 | DECIMAL | 11 | PSPTOPN | OPEN |
| 1 | DECIMAL | 12 | PSPTPNT | Reserved |
| 1 | DECIMAL | 13 | PSPTPRT | Reserved |
| 1 | DECIMAL | 14 | PSPTREAD | READ |
| 1 | DECIMAL | 15 | PSPTREM | Reserved |
| 1 | DECIMAL | 16 | PSPTRETV | Reserved |
| 1 | DECIMAL | 17 | PSPTSTBR | Reserved |
| 1 | DECIMAL | 18 | PSPTTERM | TERMINATE |
| 1 | DECIMAL | 19 | PSPTWTIN | Reserved |
| 1 | DECIMAL | 20 | PSPTWRT | WRITE |
| 1 | DECIMAL | 21 | PSPTTRAN | Reserved |
| 1 | HEX | E2 | PSPSRES | KEEP |
| 1 | HEX | C4 | PSPSDEL | DELETE |
| 2 | DECIMAL | 120 | PSPLNG | |

RCS Recovery control static storage

CONTROL BLOCK NAME = DFHRCSPS
 DESCRIPTIVE NAME = CICS RECOVERY CONTROL STATIC STORAGE
 FUNCTION =
 Static storage used by recovery control component for
 ECBS AND ANCHORS FOR THREAD MANAGEMENT.
 There is a single instance of this control block in a CICS
 system.
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.
 LIFETIME =
 It is allocated and initialized to hex zeroes in DFHSIB1.
 It has the lifetime of the CICS system.
 STORAGE CLASS =
 CICS static storage.
 LOCATION =
 Addresses from static storage address list.
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None
 RECOVERY CONTROL PROGRAM STATIC STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|---------------------------|
| (0) | STRUCTURE | 24 | RCSTATIC | |
| (0) | CHARACTER | 9 | * | Reserved |
| (9) | BITSTRING | 1 | * | Reserved |
| | 1... .. | | * | Reserved |
| | .1.. .. | | RCSCPPST | restart complete post bit |
| (A) | BITSTRING | 1 | * | Reserved |
| | 1... .. | | * | Reserved |
| | .1.. .. | | RCS_STP_ END_EVENT | STP keypoint ended |
| (B) | BITSTRING | 1 | * | Reserved |
| | 1... .. | | * | Reserved |
| | .1.. .. | | RCS_WARM_ KEYPOINT_EVENT | ready for keypoint |
| (C) | FULLWORD | 4 | RCS_RECORD_COUNT | User log record count |
| (10) | ADDRESS | 4 | RCS_AID_CHAIN | AID chain |
| (14) | CHARACTER | 4 | * | Reserved |
| (18) | CHARACTER | | RCSTATLN | End |

RMG Recovery manager global statistics

CONTROL BLOCK NAME = DFHRMGDS
 DESCRIPTIVE NAME = CICS Recovery Manager Statistics
 FUNCTION =
 This data area contains global statistics provided by the Recovery Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Recovery Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from recovery manager domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRMGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | DFHRMGDS | Recovery Manager Global statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | RMGLEN | Length of data area |
| | .11. ..11 | | RMGIDE | "0099" Recovery Manager statistics id mask |
| (2) | ADDRESS | 2 | RMGID | Recovery Manager statistics id |
| |1 | | RMGVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | RMGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | RMGSYFWD | Total syncpoints forward |
| (C) | FULLWORD | 4 | RMGSYBWD | Total syncpoints backward |
| (10) | FULLWORD | 4 | RMGRESYN | Total resynchronisations |
| (14) | FULLWORD | 4 | RMGTSHIN | Total shunted uows for indoubt |
| (18) | CHARACTER | 8 | RMGTSHTI | Total time shunted for indoubt (STCK) |
| (20) | FULLWORD | 4 | RMGCSHIN | Current uows shunted for indoubt |
| (24) | CHARACTER | 8 | RMGCSHTI | Current time shunted indoubt (STCK) |
| (2C) | FULLWORD | 4 | RMGTSHRO | Total ouws shunted for RO commit fail |
| (30) | CHARACTER | 8 | RMGTSHTR | Total time shunted for RO fail (STCK) |
| (38) | FULLWORD | 4 | RMGCSHRO | Current ouws shunts RO commit fail |
| (3C) | CHARACTER | 8 | RMGCSHTR | Current time shunted RO fail (STCK) |

The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits.

| | | | | |
|------|----------|---|----------|---------------------------------------|
| (44) | FULLWORD | 4 | RMGIAFTR | Total forced Indoubt Actions-trandef |
| (48) | FULLWORD | 4 | RMGIAFTI | Total forced Indoubt Actions-timeout |
| (4C) | FULLWORD | 4 | RMGIAFNW | Total forced Indoubt Actions-nowait |
| (50) | FULLWORD | 4 | RMGIAFOP | Total forced Indoubt Actions-operator |
| (54) | FULLWORD | 4 | RMGIAFOT | Total forced Indoubt Actions-other |
| (58) | FULLWORD | 4 | RMGIAMIS | Total Indoubt Action mismatches |

The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits as a result of a communicating system/resource manager or resource not being able to support indoubt waiting and is therefore a subset of RMGIAFNW.

| | | | | |
|------|-----------|---|----------|--------------------------------------|
| (5C) | FULLWORD | 4 | RMGNWTD | Total forced for no waiting in TD |
| (60) | FULLWORD | 4 | RMGNW61 | Total forced for no waiting in LU61 |
| (64) | FULLWORD | 4 | RMGNWMRO | Total forced for no waiting in MRO |
| (68) | FULLWORD | 4 | RMGNWRMI | Total forced for no waiting in RMI |
| (6C) | FULLWORD | 4 | RMGNWOTH | Total forced for no waiting in other |
| | .111 | | RMGEND | *** |

RMUXC Recovery manager domain inline access

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------------|--|
| (0) | STRUCTURE | 131 | RMUX_INLINE_ ACCESS_STRUCTURE | |
| (0) | CHARACTER | 8 | RMUX_LOCAL_UOW_ID | |
| (8) | CHARACTER | 27 | RMUX_REMOTE_UOW_ID | |
| (8) | UNSIGNED | 1 | RMUX_REMOTE_ ID_LENGTH | |
| (9) | UNSIGNED | 1 | RMUX_REMOTE_ ID_LU_NAME_LENGTH | |
| (A) | CHARACTER | 25 | * | |
| (23) | BITSTRING | 1 | RMUX_FLAGS | |
| | 1... | | OPTIMAL_CLIENTS_ONLY | Only optimal clients are involved in this UOW. |
| (24) | ADDRESS | 4 | RMUX_WORK_ TOKEN_ARRAY (19) | |
| (70) | CHARACTER | 19 | RMUX_CLIENT_STATES | |
| (70) | BITSTRING | 1 | CLIENT_STATE (19) | |
| | 1... | | COMMIT_COMPLETE | has locally committed |
| | .111 1111 | | * | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------|-------------|
| 1 | DECIMAL | 19 | RMUX_MAX_RO | |

RPD DL/I general purpose macro

```
CONTROL BLOCK NAME = DFHRPD
DESCRIPTIVE NAME = CICS CICS DL/I General Purpose Macro
FUNCTION =
    Provide the remote PDIR entry.
NOTES :
DEPENDENCIES = S/390
RESTRICTIONS = NONE
MODULE TYPE = EXECUTABLE
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 28 | DFHRPD | |
| (0) | HALFWORD | 2 | RPDLTH | Length of RPDIR Entry |
| (0) | CHARACTER | 1 | RPDIREND | Stop Byte (FF after last entry) |
| (2) | CHARACTER | 1 | RPDFLG1 | Flag Byte 1 |
| (3) | CHARACTER | 1 | RPDFLG2 | Flag Byte 2 |
| (4) | CHARACTER | 8 | RPDNAME | PSB name on this system |
| (C) | CHARACTER | 8 | RPDRNAME | PSB name on remote system |
| (14) | CHARACTER | 4 | RPDRSYS | Remote system name |
| (18) | FULLWORD | 4 | RPDMXSSA | Max SSA Size |

RSB DL/I general purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE
 REMOTE SCHEDULING BLOCK

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------|
| (0) | | | DFHRSBDS | |
| (0) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| (4) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| | 1... | | RSBSTART | "*" START OF RSB |
| (8) | ADDRESS | 4 | RSBPDIR | A(REMOTE PDIR ENTRY) |
| (C) | CHARACTER | 4 | RSBSYSID | REMOTE SYSTEM ID |

PLIST FOR IS CONVERSE

| | | | | |
|------|-----------|---|-------------|-------------------------------|
| (10) | FULLWORD | 4 | RSBISPL (0) | |
| (10) | CHARACTER | 1 | (0) | REQUEST TYPE |
| (10) | CHARACTER | 1 | | RETURN CODE |
| (11) | CHARACTER | 1 | | MODIFIER, REQUEST INDEPENDENT |
| (12) | CHARACTER | 1 | | MODIFIER, REQUEST DEPENDENT |
| (13) | CHARACTER | 1 | | RESERVED |
| (14) | FULLWORD | 4 | | TCTTE ADDRESS |
| (18) | FULLWORD | 4 | (0) | XFR ADDRESS |
| (18) | CHARACTER | 4 | | TRANSACTION ID |
| (1C) | CHARACTER | 4 | | REMOTE SYSTEM ID |
| (20) | CHARACTER | 8 | | TRANSACTION ROUTING PROFILE |
| (28) | HALFWORD | 2 | | Number of send sessions |
| (2A) | HALFWORD | 2 | | Number of receive sessions |
| (2C) | CHARACTER | 8 | | Connectee NETNAME |
| (34) | CHARACTER | 8 | | Security name |
| (3C) | FULLWORD | 4 | | Address of LCL entry |
| (40) | FULLWORD | 4 | | Address of CRB |

TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK

CONTROL BLOCK NAME = DFHXFRDS
 DESCRIPTIVE NAME = CICS Function Request Shipping Request
 Control Block.

MACROS = DFHXFSTG
 FUNCTION =
 Defines the data transformation (XF) control block
 as used in batch and online environments.

| | | | | |
|------|----------|---|--------------|--------------------------|
| (48) | DBL WORD | 8 | XFRSTART (0) | XF control block - start |
|------|----------|---|--------------|--------------------------|

FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE
 TO AN ONLINE ENVIRONMENT

SYSTEM/SESSION RELATED FIELDS

| | | | | |
|------|-----------|---|--------------|---|
| (48) | CHARACTER | 4 | XFRSYSNM | N(SYSID) |
| (4C) | ADDRESS | 4 | XFRATCSE | A(TCTSE) |
| (50) | ADDRESS | 4 | XFRATCTE | A(TCTTE) OR 0 |
| (54) | ADDRESS | 4 | XFRATIOA | A(TIOA) OR 0 |
| (58) | CHARACTER | 4 | XFRLUCCD | LU6.2 ERROR (SENSE) CODE |
| (5C) | CHARACTER | 4 | XFRSTRAN | Server transaction code |
| (60) | BITSTRING | 1 | XFRFLAGA | |
| | 1... .. | | XFRSERVR | "X'80" Server transaction supplied |
| | .1.. .. | | XFRNORM | "X'40" Normal transformer to be used |
| | ..1. | | XFRSYNC | "X'20" SYNCONRETURN requested |
| | ...1 | | XFRNOATN | "X'10" CONVERSE with NOATNI required |
| | 1... | | XFRLINK | "X'08" LINK request |
| |1.. | | XFRRTDST | "X'04" Dynamically routed START request |
| (62) | HALFWORD | 2 | XFRRTRLN | Length of router commarea or 0 |
| (64) | ADDRESS | 4 | XFRRTRAD | A(DFHDSRP) or 0 |
| (68) | BITSTRING | 1 | (7) | reserved |
| (70) | FULLWORD | 4 | XFRFSPEC (0) | Origin for function specific storage |

DL/I RELATED FIELDS

| | | | | |
|------|----------|---|----------|--|
| (70) | ADDRESS | 4 | XFRAUIB | A(UIB) |
| (74) | FULLWORD | 4 | XFRDLILN | Maximum length os SETS I/O area so far |

FILE CONTROL RELATED FIELDS

MACRO NAME = DFHFCECT
 DESCRIPTIVE NAME = CICS Transformer File Control Operation
 Table Entry DSECT.

| | | | | |
|------|----------|---|--------------|-----------------------------|
| (78) | FULLWORD | 4 | XFRFCENT (0) | TEMP FC OP ENTRY FOR DFHXFX |
| (78) | ADDRESS | 4 | | ADDRESS OF NEXT ENTRY |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (7C) | CHARACTER | 4 | | NAME OF SYSTEM OWNING FILE |
| (80) | CHARACTER | 8 | | FILE NAME ON REMOTE SYSTEM |
| (88) | HALFWORD | 2 | | REQID |
| (8A) | HALFWORD | 2 | | KEYLENGTH |
| (8C) | ADDRESS | 4 | | ADDR OF RIDFLD |
| (90) | ADDRESS | 4 | | ADDR OF BUFFER FOR READ SET |
| (94) | HALFWORD | 2 | | LGTH OF BUFFER FOR READ SET |
| (96) | CHARACTER | 1 | | FIRST FLAG BYTE |
| (97) | CHARACTER | 1 | | SECOND FLAG BYTE |
| (98) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| This DSECT describes the entries required for remote program link | | | | |
| (70) | FULLWORD | 4 | DFHPCENT (0) | PC LINK entries begin here |
| (70) | CHARACTER | 8 | XFRPNAME | name of program |
| (78) | HALFWORD | 2 | XFRCOMML | length of commarea |
| (7A) | HALFWORD | 2 | XFRDATAL | length of data to be sent |
| (7C) | CHARACTER | 4 | XFRABCD | Abend code returned from mirror |
| (80) | BITSTRING | 1 | XFRFLAG4 | Flag byte |
| | 1... | | XFRHTRAN | "X'80" hex tranid present |
| | .1.. | | XFRDATAV | "X'40" valid DATALENGTH supplied |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT | | | | |
| (48) | ADDRESS | 4 | XFRSTG1 | ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRSTG1 IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH |
| (4C) | ADDRESS | 4 | XFRSTG4 | ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I. |
| (50) | FULLWORD | 4 | XFRSTGL | LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS | | | | |
| (98) | ADDRESS | 4 | XFRPLIST | ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR |
| (9C) | ADDRESS | 4 | XFRATABN | A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE |
| (A0) | ADDRESS | 4 | XFRATAB2 | A(2ND TABLE ENTRY) - E.G. PDIR OR 0 |
| (A4) | CHARACTER | 1 | XFRFORMN | THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS |
|  | .... .... |  | XFRTRAN1 | "0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS |
| |1. | | XFRTRAN2 | "2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS |
| |1. | | XFRTRAN3 | "4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES |
| |11. | | XFRTRAN4 | "6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES |
| (A5) | CHARACTER | 2 | XFRARCHD | USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE |
| (A7) | CHARACTER | 1 | XFRGROUP | THE GROUP IDENTIFIER FOR THE CURRENT REQUEST |
| |11. | | XFRFCGRP | "X'06" - THE CICS FC GROUP |
| | 1.. | | XFRTDGRP | "X'08" - THE CICS TD GROUP |
| | 1.1. | | XFRTSGRP | "X'0A" - THE CICS TS GROUP |
| | 1.. | | XFRICGRP | "X'10" - THE CICS IC GROUP |
| |1. | | XFRJCGRP | "X'14" - THE CICS JC GROUP |
| |1. | | XFRDLGRP | "X'40" - THE DL/I GROUP |
| (A8) | CHARACTER | 1 | XFRFUNCT | THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST |
| (A9) | CHARACTER | 1 | XFRFLAGS | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFREILST | "X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP |
| | .1.. | | XFRDLLST | "X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I |
| | .1. | | XFRDLCNT | "X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS |
| | ...1 | | XFRDLPLI | "X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS |
| | 1.. | | XFRATHDR | "X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA |
| |1. | | XFRLNGRN | "X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING |
| |1. | | XFRNRPLY | "X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED |
| |1. | | XFRPRCT | "X'01" THE REQUEST IS TO BE SHIPPED PROTECTED |
| (AA) | CHARACTER | 1 | XFRFLAG1 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRCLCQ | "X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING |
| | .1.. | | XFRFCTK | "X'40" FC Token can be shipped |
| (AB) | CHARACTER | 1 | XFRFLAG2 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRHAENT | "X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB |
| | .1.. | | XFRLENFD | "X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally |
| (AC) | CHARACTER | 1 | XFRFLAG3 | PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED |
| (AD) | CHARACTER | 2 | XFRCODES (0) | FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER |
| (AD) | CHARACTER | 1 | XFRCODE1 | THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS |
| |1. | | XFR1TO4 | "4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4 |
| | 1.. | | XFR1TOC | "8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I |
| |1. | | XFR1XLNF | "2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS |
| | ...1 111. | | XFRLNKAP | "30" Allocate request in ISP has been purged |
| | ...1 11. | | XFRLNKAR | "28" Allocate request in ISP has been rejected |
| | ...1 1.1. | | XFRLNKNI | "26" no sessions immediately available for allocate request |
| | ...1 1.. | | XFRLNKPF | "24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING |
| | ...1 .11. | | XFRLNKSV | "22" TRANSID invalid, we are already in session with a different mirror transaction. |
| | ...1 .1. | | XFRLNKGP | "20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID |
| | ...1 .1. | | XFRLNKSP | "18" SYNCONRETURN invalid, we are already in session with a mirror |
| | ...1 | | XFRLNKLQ | "16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT |
| | 111. | | XFRLNKAB | "14" xform 4 has processed ABCODE data |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--|
| | 11.. | | XFRLNKNA | "12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE |
| | 1.1. | | XFRLNKSF | "10" CONVERSE in DFHISP has failed |
| | 1... | | XFRLNKSH | "8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE |
| |11. | | XFRLNKNS | "6" Type of request is not supported over LU6.1 links |
| (AE) | CHARACTER | 1 | XFRLNKSY | "4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE |
| |1.. | | XFRCODE2 | THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS |
| |1.. | | XFR2TO3 | "4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3 |
| | 1... | | XFRNEGR | "8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT |
| (AF) | CHARACTER | 1 | XFRABCDE | ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM |
| (B0) | ADDRESS | 4 | XFRRESR9 | resumption base for DL/I function shipping |
| (B4) | ADDRESS | 4 | XFRRESRE | resumption address for DL/I function shipping |
| (B8) | ADDRESS | 4 | XFRBEGOP | address of Arg0 options bytes |
| (BC) | FULLWORD | 4 | XFRARGS (0) | ORIGIN FOR ARGUMENTS |
| | .111 .1.. | | XFRLNGTH | **"-XFRSTART" |

TRANSFORMER'S RESOURCE TABLE

| | | | | |
|------|-----------|---|--------------|--|
| (C0) | DBL WORD | 8 | DRXSTRT (0) | START OF DFHDRX |
| (C0) | FULLWORD | 4 | DRXSSASZ | MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM |
| (C4) | CHARACTER | 8 | DRXRPSB | NAME OF PSB TO BE USED ON REMOTE SYSTEM |
| (CC) | ADDRESS | 4 | DRXPCBAL | A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS |
| (D0) | ADDRESS | 4 | DRXCHAIN | CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4 |
| (D4) | ADDRESS | 4 | DRXIOAWK | A(READ SET BUFFER); BEFORE DRXBUFFAL SET ON CONTAINS LENGTH FOR BUFFER |
| (D8) | HALFWORD | 2 | DRXINDEX | THE PCB INDEX FOR THE CURRENT DATABASE CALL |
| (DA) | BITSTRING | 1 | DRXISC | ISC FLAGS |
| | 1... | | DRXPCBM | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| | .1.. | | DRXBUFFAL | "X'40" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK |
| | .1.. | | DRXCHKP | "X'20" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBs AND LIST |
| (DB) | BITSTRING | 1 | DRXISCO | ISC OUTBOUND FLAGS |
| | 1... | | DRXSYNC | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| | .1.. | | DRXHLP1 | "X'40" HLP1 COMMAND WITH SSA AND I/O LENGTHS GIVEN |
| (DC) | BITSTRING | 1 | DRXISCI | ISC INBOUND FLAGS |
| | 1... | | DRXFUNC | "X'80" FUNCTION STRING INVALID |
| | .1.. | | DRXCALL | "X'40" USER CALL PARM LIST INVALID |
| | .1.. | | DRXLNKNA | "X'20" LINK DOES NOT EXIST |
| | ...1 | | DRXLNKSH | "X'10" LINK IS OUT OF SERVICE |
| | 1... | | DRXNOSTT | "X'08" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| (DD) | BITSTRING | 1 | DRXFCTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4) |
| (DE) | BITSTRING | 1 | DRXDLTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4) |
| (DF) | BITSTRING | 1 | DRXLANG | LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST |
| | 11.. ...1 | | DRXASM | "C'A" ASSEMBLER |
| | 11.. ..11 | | DRXCOB | "C'C" COBOL |
| | 11.1 .111 | | DRXPLI | "C'P" PL/I |
| (E0) | BITSTRING | 1 | DRXFLG1 | FLAG BYTE |
| | 1... | | DRXCMP1 | "X'80" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL) |
| | .1.. | | DRXSPIE | "X'40" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY |
| | .1.. | | DRXDPCB | "X'20" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4 |
| (E4) | FULLWORD | 4 | DRXRETAD | ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN |
| (E8) | FULLWORD | 4 | DRXIOLEN | I/O AREA LENGTH FOR HLP1 COMMAND - VALID IF DRXHLP1 IS SET |
| (EC) | CHARACTER | 1 | DRXATPN | TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE |
| (ED) | CHARACTER | 6 | DRXRCODE (0) | RETURN CODE FROM AN EXEC CICS REQUEST |
| (ED) | CHARACTER | 1 | DRXRCDE1 | RESPONSE CODE |
| (EE) | CHARACTER | 1 | DRXRCDE2 | RESERVED |
| (EF) | CHARACTER | 1 | DRXRCDE3 | RESERVED |
| (F0) | CHARACTER | 1 | DRXRCDE4 | RESERVED |
| (F1) | CHARACTER | 1 | DRXRCDE5 | RESERVED |
| (F2) | CHARACTER | 1 | DRXRCDE6 | RESERVED |
| | ..11 ..11 | | DRXLLEN | **"-DRXSTRT" LENGTH OF DFHDRX |
| (F4) | ADDRESS | 4 | RSBEXPRM | ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL |
| | 1111 | | RSBLEN | **"-RSBSTART" LENGTH OF RSB |

RSB DL/I general purpose macro

MACRO NAME = DFHDLP
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
 FUNCTION =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 PATCH LABEL = NONE
 MODULE TYPE = EXECUTABLE
 REMOTE SCHEDULING BLOCK

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------|
| (0) | | | DFHRSBDS | |
| (0) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| (4) | FULLWORD | 4 | | STORAGE ACCOUNTING |
| | 1... | | RSBSTART | "*" START OF RSB |
| (8) | ADDRESS | 4 | RSBPDIR | A(REMOTE PDIR ENTRY) |
| (C) | CHARACTER | 4 | RSBSYSID | REMOTE SYSTEM ID |

PLIST FOR IS CONVERSE

| | | | | |
|------|-----------|---|-------------|-------------------------------|
| (10) | FULLWORD | 4 | RSBISPL (0) | |
| (10) | CHARACTER | 1 | (0) | REQUEST TYPE |
| (10) | CHARACTER | 1 | | RETURN CODE |
| (11) | CHARACTER | 1 | | MODIFIER, REQUEST INDEPENDENT |
| (12) | CHARACTER | 1 | | MODIFIER, REQUEST DEPENDENT |
| (13) | CHARACTER | 1 | | RESERVED |
| (14) | FULLWORD | 4 | | TCTTE ADDRESS |
| (18) | FULLWORD | 4 | (0) | XFR ADDRESS |
| (18) | CHARACTER | 4 | | TRANSACTION ID |
| (1C) | CHARACTER | 4 | | REMOTE SYSTEM ID |
| (20) | CHARACTER | 8 | | TRANSACTION ROUTING PROFILE |
| (28) | HALFWORD | 2 | | Number of send sessions |
| (2A) | HALFWORD | 2 | | Number of receive sessions |
| (2C) | CHARACTER | 8 | | Connectee NETNAME |
| (34) | CHARACTER | 8 | | Security name |
| (3C) | FULLWORD | 4 | | Address of LCL entry |
| (40) | FULLWORD | 4 | | Address of CRB |

TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK
 CONTROL BLOCK NAME = DFHXFRDS
 DESCRIPTIVE NAME = CICS Function Request Shipping Request
 Control Block.

MACROS = DFHXFSTG
 FUNCTION =
 Defines the data transformation (XF) control block
 as used in batch and online environments.

| | | | | |
|------|----------|---|--------------|--------------------------|
| (48) | DBL WORD | 8 | XFRSTART (0) | XF control block - start |
|------|----------|---|--------------|--------------------------|

FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT

SYSTEM/SESSION RELATED FIELDS

| | | | | |
|------|-----------|---|--------------|---|
| (48) | CHARACTER | 4 | XFRSYSNM | N(SYSID) |
| (4C) | ADDRESS | 4 | XFRATCSE | A(TCTSE) |
| (50) | ADDRESS | 4 | XFRATCTE | A(TCTTE) OR 0 |
| (54) | ADDRESS | 4 | XFRATIOA | A(TIOA) OR 0 |
| (58) | CHARACTER | 4 | XFRLUCCD | LU6.2 ERROR (SENSE) CODE |
| (5C) | CHARACTER | 4 | XFRSTRAN | Server transaction code |
| (60) | BITSTRING | 1 | XFRFLAGA | |
| | 1... .. | | XFRSERVR | "X'80" Server transaction supplied |
| | .1.. .. | | XFRNORM | "X'40" Normal transformer to be used |
| | ..1. | | XFRSYNC | "X'20" SYNCONRETURN requested |
| | ...1 | | XFRNOATN | "X'10" CONVERSE with NOATNI required |
| | 1... | | XFRLINK | "X'08" LINK request |
| |1.. | | XFRRTDST | "X'04" Dynamically routed START request |
| (62) | HALFWORD | 2 | XFRRTRLN | Length of router commarea or 0 |
| (64) | ADDRESS | 4 | XFRRTRAD | A(DFHDSRP) or 0 |
| (68) | BITSTRING | 1 | (7) | reserved |
| (70) | FULLWORD | 4 | XFRFSPEC (0) | Origin for function specific storage |

DL/I RELATED FIELDS

| | | | | |
|------|----------|---|----------|--|
| (70) | ADDRESS | 4 | XFRAUIB | A(UIB) |
| (74) | FULLWORD | 4 | XFRDLILN | Maximum length os SETS I/O area so far |

FILE CONTROL RELATED FIELDS

MACRO NAME = DFHFCECT
 DESCRIPTIVE NAME = CICS Transformer File Control Operation
 Table Entry DSECT.

| | | | | |
|------|----------|---|--------------|-----------------------------|
| (78) | FULLWORD | 4 | XFRFCENT (0) | TEMP FC OP ENTRY FOR DFHXFX |
| (78) | ADDRESS | 4 | | ADDRESS OF NEXT ENTRY |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|--------------|-----|--------------|---|
| (7C) | CHARACTER | 4 | | NAME OF SYSTEM OWNING FILE |
| (80) | CHARACTER | 8 | | FILE NAME ON REMOTE SYSTEM |
| (88) | HALFWORD | 2 | | REQID |
| (8A) | HALFWORD | 2 | | KEYLENGTH |
| (8C) | ADDRESS | 4 | | ADDR OF RIDFLD |
| (90) | ADDRESS | 4 | | ADDR OF BUFFER FOR READ SET |
| (94) | HALFWORD | 2 | | LGTH OF BUFFER FOR READ SET |
| (96) | CHARACTER | 1 | | FIRST FLAG BYTE |
| (97) | CHARACTER | 1 | | SECOND FLAG BYTE |
| (98) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| This DSECT describes the entries required for remote program link | | | | |
| (70) | FULLWORD | 4 | DFHPCENT (0) | PC LINK entries begin here |
| (70) | CHARACTER | 8 | XFRPNAME | name of program |
| (78) | HALFWORD | 2 | XFRCOMML | length of commarea |
| (7A) | HALFWORD | 2 | XFRDATAL | length of data to be sent |
| (7C) | CHARACTER | 4 | XFRABCD | Abend code returned from mirror |
| (80) | BITSTRING | 1 | XFRFLAG4 | Flag byte |
| | 1... | | XFRHTRAN | "X'80" hex tranid present |
| | .1.. | | XFRDATAV | "X'40" valid DATALENGTH supplied |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT | | | | |
| (48) | ADDRESS | 4 | XFRSTG1 | ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRSTG1 IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH |
| (4C) | ADDRESS | 4 | XFRSTG4 | ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I |
| (50) | FULLWORD | 4 | XFRSTGL | LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS | | | | |
| (98) | ADDRESS | 4 | XFRPLIST | ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR |
| (9C) | ADDRESS | 4 | XFRATABN | A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE |
| (A0) | ADDRESS | 4 | XFRATAB2 | A(2ND TABLE ENTRY) - E.G. PDIR OR 0 |
| (A4) | CHARACTER | 1 | XFRFORMN | THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS |
|  | .... .... |  | XFRTRAN1 | "0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS |
| |1. | | XFRTRAN2 | "2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS |
| |1. | | XFRTRAN3 | "4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES |
| |11. | | XFRTRAN4 | "6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES |
| (A5) | CHARACTER | 2 | XFRARCHD | USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE |
| (A7) | CHARACTER | 1 | XFRGROUP | THE GROUP IDENTIFIER FOR THE CURRENT REQUEST |
| |11. | | XFRFCGRP | "X'06" - THE CICS FC GROUP |
| | 1.. | | XFRTDGRP | "X'08" - THE CICS TD GROUP |
| | 1.1. | | XFRSGRP | "X'0A" - THE CICS TS GROUP |
| | 1.. | | XFRICGRP | "X'10" - THE CICS IC GROUP |
| |1. | | XFRJCGRP | "X'14" - THE CICS JC GROUP |
| |1. | | XFRDLGRP | "X'40" - THE DL/I GROUP |
| (A8) | CHARACTER | 1 | XFRFUNCT | THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST |
| (A9) | CHARACTER | 1 | XFRFLAGS | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFREILST | "X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP |
| | .1.. | | XFRDLLST | "X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I |
| | .1. | | XFRDLCNT | "X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS |
| | ...1 | | XFRDLPLI | "X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS |
| | 1... .. | | XFRATHDR | "X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA |
| |1.. | | XFRLNGRN | "X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING |
| |1. | | XFRNRPLY | "X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED |
| |1. | | XFRPRTCT | "X'01" THE REQUEST IS TO BE SHIPPED PROTECTED |
| (AA) | CHARACTER | 1 | XFRFLAG1 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRCLCQ | "X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING |
| | .1.. | | XFRFCTK | "X'40" FC Token can be shipped |
| (AB) | CHARACTER | 1 | XFRFLAG2 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRHAENT | "X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB |
| | .1.. | | XFRLENFD | "X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally |
| (AC) | CHARACTER | 1 | XFRFLAG3 | PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED |
| (AD) | CHARACTER | 2 | XFRCODES (0) | FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER |
| (AD) | CHARACTER | 1 | XFRCODE1 | THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS |
| |1.. | | XFR1TO4 | "4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4 |
| | 1.. | | XFR1TOC | "8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I |
| |1. | | XFR1XLNF | "2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS |
| | ...1 111. | | XFRLNKAP | "30" Allocate request in ISP has been purged |
| | ...1 11. | | XFRLNKAR | "28" Allocate request in ISP has been rejected |
| | ...1 1.1. | | XFRLNKNI | "26" no sessions immediately available for allocate request |
| | ...1 1.. | | XFRLNKPF | "24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING |
| | ...1 .11. | | XFRLNKSV | "22" TRANSID invalid, we are already in session with a different mirror transaction. |
| | ...1 .1. | | XFRLNKGP | "20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID |
| | ...1 .1. | | XFRLNKSP | "18" SYNCONRETURN invalid, we are already in session with a mirror |
| | ...1 | | XFRLNKLQ | "16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT |
| | 111. | | XFRLNKAB | "14" xform 4 has processed ABCODE data |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|--------------|--|
| | 11.. | | XFRLNKNA | "12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE |
| | 1.1. | | XFRLNKSF | "10" CONVERSE in DFHISP has failed |
| | 1... | | XFRLNKSH | "8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE |
| |11. | | XFRLNKNS | "6" Type of request is not supported over LU6.1 links |
| |1.. | | XFRLNKSY | "4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE |
| (AE) | CHARACTER | 1 | XFRCODE2 | THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS |
| |1.. | | XFR2TO3 | "4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3 |
| | 1... | | XFRNEGR | "8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT |
| (AF) | CHARACTER | 1 | XFRABCDE | ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM |
| (B0) | ADDRESS | 4 | XFRRESR9 | resumption base for DL/I function shipping |
| (B4) | ADDRESS | 4 | XFRRESRE | resumption address for DL/I function shipping |
| (B8) | ADDRESS | 4 | XFRBEGOP | address of Arg0 options bytes |
| (BC) | FULLWORD | 4 | XFRARGS (0) | ORIGIN FOR ARGUMENTS |
| | .111 .1.. | | XFRLNGTH | **-XFRSTART" |
| TRANSFORMER'S RESOURCE TABLE | | | | |
| (C0) | DBL WORD | 8 | DRXSTRT (0) | START OF DFHDRX |
| (C0) | FULLWORD | 4 | DRXSSASZ | MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM |
| (C4) | CHARACTER | 8 | DRXRPSB | NAME OF PSB TO BE USED ON REMOTE SYSTEM |
| (CC) | ADDRESS | 4 | DRXPCBAL | A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS |
| (D0) | ADDRESS | 4 | DRXCHAIN | CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4 |
| (D4) | ADDRESS | 4 | DRXIOAWK | A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER |
| (D8) | HALFWORD | 2 | DRXINDEX | THE PCB INDEX FOR THE CURRENT DATABASE CALL |
| (DA) | BITSTRING | 1 | DRXISC | ISC FLAGS |
| | 1... | | DRXPCBM | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| | .1.. | | DRXBUFAL | "X'40" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK |
| | .1.. | | DRXCHKP | "X'20" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBs AND LIST |
| (DB) | BITSTRING | 1 | DRXISCO | ISC OUTBOUND FLAGS |
| | 1... | | DRXSYNC | "X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| | .1.. | | DRXHLP1 | "X'40" HLP1 COMMAND WITH SSA AND I/O LENGTHS GIVEN |
| (DC) | BITSTRING | 1 | DRXISCI | ISC INBOUND FLAGS |
| | 1... | | DRXFUNC | "X'80" FUNCTION STRING INVALID |
| | .1.. | | DRXCALL | "X'40" USER CALL PARM LIST INVALID |
| | .1.. | | DRXLNKNA | "X'20" LINK DOES NOT EXIST |
| | ...1 | | DRXLNKSH | "X'10" LINK IS OUT OF SERVICE |
| | 1... | | DRXNOSTT | "X'08" PRESENT TO RETAIN SDB - DL/I SIMILARITY |
| (DD) | BITSTRING | 1 | DRXFCTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4) |
| (DE) | BITSTRING | 1 | DRXDLTR | RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4) |
| (DF) | BITSTRING | 1 | DRXLANG | LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST |
| | 11.. ...1 | | DRXASM | "C'A" ASSEMBLER |
| | 11.. ..11 | | DRXCOB | "C'C" COBOL |
| | 11.1 .111 | | DRXPLI | "C'P" PL/I |
| (E0) | BITSTRING | 1 | DRXFLG1 | FLAG BYTE |
| | 1... | | DRXCMPT | "X'80" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL) |
| | .1.. | | DRXSPIE | "X'40" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY |
| | .1.. | | DRXDPCB | "X'20" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4 |
| (E4) | FULLWORD | 4 | DRXRETAD | ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN |
| (E8) | FULLWORD | 4 | DRXIOLEN | I/O AREA LENGTH FOR HLP1 COMMAND - VALID IF DRXHLP1 IS SET |
| (EC) | CHARACTER | 1 | DRXATPN | TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE |
| (ED) | CHARACTER | 6 | DRXRCODE (0) | RETURN CODE FROM AN EXEC CICS REQUEST |
| (ED) | CHARACTER | 1 | DRXRCDE1 | RESPONSE CODE |
| (EE) | CHARACTER | 1 | DRXRCDE2 | RESERVED |
| (EF) | CHARACTER | 1 | DRXRCDE3 | RESERVED |
| (F0) | CHARACTER | 1 | DRXRCDE4 | RESERVED |
| (F1) | CHARACTER | 1 | DRXRCDE5 | RESERVED |
| (F2) | CHARACTER | 1 | DRXRCDE6 | RESERVED |
| | ..11 ..11 | | DRXLLEN | **-DRXSTRT" LENGTH OF DFHDRX |
| (F4) | ADDRESS | 4 | RSBEXPRM | ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL |
| | 1111 | | RSBLEN | **-RSBSTART" LENGTH OF RSB |

SAA Storage accounting area

CONTROL BLOCK NAME = DFHSAAPS
 DESCRIPTIVE NAME = CICS Storage Accounting Area.
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 8 | DFHSAADS | |
| (0) | CHARACTER | 1 | SAASCI | STORAGE CLASS IDENTIFICATION |
| (1) | CHARACTER | 1 | SAASFI | STORAGE FORMAT IDENTIFICATION |
| (2) | UNSIGNED | 2 | SAASAD | STORAGE AREA SIZE |
| (4) | ADDRESS | 4 | SAASACA | STORAGE ACCOUNTING CHAIN |

SAB Subsystem anchor block

CONTROL BLOCK NAME = DFHSABDS
 DESCRIPTIVE NAME = CICS Subsystem Anchor Block
 FUNCTION =
 Contains addresses of CICS component control block storage which exists until re-IPL.
 Certain CICS components require control blocks which are accessible by all CICS systems run in a CEC.
 The SAB is used to anchor such control block storage.
 The MVS SSCT is used to anchor the SAB and CICS components use the MVS SSI VERIFY request to obtain the address of the SSCT itself.
 One SAB exists only, which is created by the first CICS component to require it after IPL. Subsequent CICS components update it as appropriate.
 The user components are:
 IRC - DFHIRP
 XRF - DFHWTI
 LIFETIME =
 Created by first user after IPL.
 Exists until re-IPL.
 STORAGE CLASS =
 MVS Common Service Area storage.
 LOCATION =
 Address in MVS SSCTSUSE.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = none
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (0) | | | DFHSABDS | |
| (0) | ADDRESS | 4 | SABCDD | Address of XRF CEC Dead Data |
| (4) | ADDRESS | 4 | SABSCTE | Address of IRC SCTE |
| (8) | CHARACTER | 6 | SABACRON | Eyecatcher 'DFHSAB' |
| (E) | SIGNED | 1 | SABVERSN | Version of control block |
| |1 | | SABV211 | "1" Version 2.1.1 SPE SAB |
| (F) | BITSTRING | 1 | SABFLAG1 | First flag byte |
| | 1... .. | | SAB1FMT | "X'80" - reformat CICS messages |
| | .1. | | SAB1SEC | "X'40" - protect security msgs |
| | ..1. | | SAB1GRC | "X'20" - generic routecodes supplied |
| (10) | ADDRESS | 4 | SABSSCT | Address of Subsystem CVT |
| (14) | ADDRESS | 4 | SABPNDPW | Pending password requests |
| (18) | ADDRESS | 4 | SABMAPPT | Addr of addr-space bitmap |
| (1C) | FULLWORD | 4 | SABMAPLN | Len of addr-space bitmap |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-------------------------|-----|------------------|--|
| (20) | BITSTRING ..11 | 16 | SABGROUT SABL | Generic Routecodes "-DFHSABDS" Length |

SUBSYSTEM CONTROL TABLE EXTENSION
 THE SCTE IS USED BY THE SVC TO CONTROL THE EXISTENCE
 OF THE LACB (LOGON ADDRESS CONTROL BLOCK).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|--|
| (0) | | | SCTE | |
| (0) | ADDRESS | 4 | SCTELACB | Address of LACB |
| (4) | FULLWORD | 4 | SCTECNT | NUMBER OF 'ASSOCIATED' address spaces |
| (8) | FULLWORD | 4 | | Reserved - must not be deleted |
| (C) | HALFWORD | 2 | SCTESVCI | INSTRUCTION TO INVOKE CICS SVC - offset must never change (SDB, batch DPL) |
| (E) | ADDRESS | 1 | SCTEVER# | SCTE version no. - indicates level of associated DFHIRP control blocks |
| |1 | | SCTEVER1 | "1" SCTE version 1 - CICS 4.1 |
| |1. | | SCTEVER2 | "2" SCTE version 2 - CICS 5.1 |
| (F) | BITSTRING | 1 | SCTEFLGS | Various flags |
| | 1... .. | | SCTEFSP4 | "X'80" MVS includes XCF support (SP4 plus) |
| | .1... .. | | SCTEFXCF | "X'40" XCF level satisfies all IRP's needs |
| | ...1 | | SCTELEN | "*-SCTE" LENGTH OF SCTE ENTRY |

SDG Dump domain global statistics

CONTROL BLOCK NAME = DFHSDGDS
 DESCRIPTIVE NAME = CICS Dump Domain Global Statistics
 (System dumps)
 FUNCTION = A record containing Dump Domain Global Statistics
 This DSECT describes the global system dump statistics
 Produced by the Dump Domain. A single instance of the data
 is produced by the Dump Domain. Additional copies may be
 created by the statistics domain, statistics utility
 programs or user programs.
 The data consists of a header plus a block of statistics
 for the Dump domain.
 LIFETIME = Created when the Dump Domain is initialised and
 exists for the lifetime of the domain manager.
 STORAGE CLASS = varies
 LOCATION = User is passed a pointer to the storage
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In Dump Domain
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|-----------------|---------------------------------------|
| (0) | | | DFHSDGDS | System Dump Global statistics |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | SDGLEN | Length of data area |
| | .1.1 1.1. | | SDGIDE | "90" System dump global stats id mask |
| (2) | ADDRESS | 2 | SDGID | System dump global stats id |
| |1 | | SDGVERS | "X'01" Stats version number mask |
| (4) | CHARACTER | 1 | SDGDVERS | Dump domain global stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | SYS_DUMPS_TAKEN | Number of system dumps taken |
| (C) | FULLWORD | 4 | SYS_DUMPS_SUPPR | Number of system dumps suppressed |
| | ...1 | | SDGEN | "**" |
| | ...1 | | SDGCLEN | "*-DFHSDGDS" Length of DSECT |

SDR Dump domain system dump statistics

CONTROL BLOCK NAME = DFHSDRDS
 DESCRIPTIVE NAME = CICS Dump Domain System Dump Statistics
 (by dumpcode)
 FUNCTION = A record containing Dump Domain System Dump Stats
 This DSECT describes the statistics produced by the Dump Domain for each system dumpcode. There will be one instance of the data for each dumpcode for which statistics were requested.
 The data consists of a header plus a block of statistics for the Dump domain.
 LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the Dump Domain.
 STORAGE CLASS =
 LOCATION = User is passed a pointer to the storage
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = In Dump Domain
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------------|
| (0) | | | DFHSDRDS | Dump domain system dump stats |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | SDRLEN | Length of data area |
| | .1.1 1... | | SDRIDE | "88" Dump domain system stats id mask |
| (2) | ADDRESS | 2 | SDRID | Dump domain system stats id |
| |1 | | SDRVERS | "X'01" DSECT version number |
| (4) | CHARACTER | 1 | SDRDVERS | Domain data format version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SDRCODE | Dumpcode |
| (10) | FULLWORD | 4 | SDRSTKN | Number of system dumps taken |
| (14) | FULLWORD | 4 | SDRSSUPR | Number of system dumps suppressed |
| (18) | FULLWORD | 4 | SDRTTKN | Number of tran dumps taken (unused) |
| (1C) | FULLWORD | 4 | SDRTSUPR | Number of tran dumps suppressed |
| | ..1. | | SDREND | *** |
| | ..1. | | SDRCLEN | **"-SDRLEN" Length |

SETCC Set storage control

CONTROL BLOCK NAME = DFHSETCC
 DESCRIPTIVE NAME = CICS Set Storage Control
 FUNCTION =
 DFHSSC describes the DSECT for the Set Storage Control area. This area describes the address, length, location (above or below) and key (CICS or USER) of storage that is returned in response to requests that specify the keyword SET.
 The Set Storage Control dsect is intended to be imbedded within other dsects. It may be used by any component that allocates SET storage.
 For example, the Set Storage Control dsect is used by File Control. It is imbedded within the FRTE, where it is used to describe SET storage acquired by READ UPDATE SET, READNEXT SET and READPREV SET requests. It is also imbedded within the FLAB where it is used to describe storage acquired by READ SET requests.

LIFETIME =
 Lifetime of control block that imbeds DFHSETCC. See comments in description of appropriate control block.

STORAGE CLASS =
 See control block that imbeds DFHSETCC.

LOCATION =
 See control block that imbeds DFHSETCC.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|---------------------|
| (0) | STRUCTURE | 8 | DFHSSC | |
| (0) | ADDRESS | 4 | SSC_SET_ADDRESS | Set storage address |
| (4) | HALFWORD | 2 | SSC_SET_LENGTH | Set storage length |
| (6) | BITSTRING | 1 | SSC_SET_FLAGS | Flag byte |
| | 1... .. | | SSC_SET_BELOW | Storage below line |
| | .1.. | | SSC_SET_CICS | Storage in CICS key |
| | ..11 1111 | | * | Reserved |
| (7) | CHARACTER | 1 | * | Reserved |

SIP System initialisation program

MODULE NAME = DFHSIPDS
 DESCRIPTIVE NAME = CICS SYSTEM INITIALIZATION PROGRAM
 COMMUNICATION AREA
 FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.
 MACROS = DFHSIPD

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | | | DFHSIPDS | |
| (0) | DBL WORD | 8 | SIPCOM (0) | LABEL FOR ADDRESSABILITY |
| INITIALISATION SUBROUTINE ADDRESSES | | | | |
| (0) | ADDRESS | 4 | SIPOSUP | ADDRESS OF OVERLAY SUPERVISOR |
| (4) | ADDRESS | 4 | | Reserved |
| (8) | ADDRESS | 4 | SIPLDER | ADDRESS OF LOADER ROUTINE IN APSIP |
| (C) | ADDRESS | 4 | SIPPUT | ADDRESS OF CONSOLE PUT ROUTINE |
| (10) | ADDRESS | 4 | SIPCORE | ADDRESS OF GETMAIN ROUTINE |
| CONTROL AREA AND PROGRAM ADDRESSES | | | | |
| (14) | ADDRESS | 4 | SIPCSA | ADDRESS OF DFHCSA |
| (18) | ADDRESS | 4 | SIPSIT | ADDRESS OF DFHSIT |
| (1C) | ADDRESS | 4 | SIPBASER | DFHSIP BASE ADDRESS |
| (20) | ADDRESS | 4 | SIPDMSTK | A (kernel stack) at entry to SIP |
| (24) | ADDRESS | 4 | SIPDMPLP | kernel plst pointer at entry to SIP |
| (28) | ADDRESS | 4 | SIPSTACK | A(kernel stack) for task entering one of the closed subroutines in DFHSIP |
| (2C) | ADDRESS | 4 | (6) | Reserved |
| (44) | ADDRESS | 4 | SIPDMSRA | A(SIPDMSR) = DOMAIN MANAGER TASK SYNCHRONIZATION ROUTINE |
| (48) | ADDRESS | 4 | (3) | Reserved |
| (54) | ADDRESS | 4 | SIPDMPRA | A(SIPGFTCT - the routine which posts APDM task when insufficient storgae detected by TCP task |
| (58) | ADDRESS | 4 | | Reserved |
| (5C) | FULLWORD | 4 | LNGTHSAV | Reserved |
| REGISTER SAVE AREAS FOR USE BY DFHSIP | | | | |
| (60) | FULLWORD | 4 | SIPSAVE (16) | GENERAL REGISTER SAVE AREA |
| (A0) | FULLWORD | 4 | SIPUTSV (16) | PUTSAVE REGISTER SAVE AREA |
| Flag bytes for controlling program loading These same equates are used in SIPNUCTB in DFHSIB1 | | | | |
| (E0) | BITSTRING | 2 | | Reserved |
| (E2) | BITSTRING | 1 | SIPFLAG | FLAG BYTE |
| | 1... .. | | SIPBLNUC | "X'80" .. BLDL FOR NUCLEUS MODULE |
| | .1. | | SIPPRVMD | "X'40" .. MODULE MUST BE IN PRIVATE AREA (AND NOT SHARED) |
| | ..1. | | SIPSHRMD | "X'20" .. MODULE MUST BE IN SHARED AREA |
| | ...1 | | SIPSHRPL | "X'10" .. SHARED PL/I MODULES FLAG |
| |1.. | | SIPBLNAB | "X'04" .. NUCLEUS-BUILD ABEND FLAG |
| |1. | | SIPBLERR | "X'02" .. MODULE NOT FOUND |
| |1. | | SIPERR | "X'02" .. ERROR RESPONSE |
| |1 | | SIPSFBL | "X'01" .. SUFFIXABLE MODULE FLAG |
| (E3) | BITSTRING | 1 | SIPERFLG | INITIALISATION/ERROR FLAGS |
| | 1... .. | | SIPCNCNLR | "X'80" .. CANCEL REQUESTED AFTER MSG DFH1596 |
| | ... 1.. | | SIPLDERR | "X'08" .. LOAD ERROR FLAG (OS-ONLY) |
| (E4) | BITSTRING | 1 | SIPFLAG3 | Flag Byte 3 |
| | 1... .. | | SIP2PLT | "X'80" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 2ND STAGE OF INITIALISATION |
| | .1. | | SIP3PLT | "X'40" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 3RD STAGE OF INITIALISATION |
| (E5) | BITSTRING | 1 | SIPFLAG4 | FLAG BYTE 4 |
| | ...1 | | SIPF31B | "X'10" ..GET DOMAIN STORAGE FROM 31BIT SUBPOOL |
| |1. | | SIPFDOSA | "X'02" ..GETMAIN TO RETURN ADDR PAST LENGTH FD |
| PARAMETER PASSING FIELDS | | | | |
| (E8) | FULLWORD | 4 | SIPARMP1 | PARAMETER PASS FIELDS |
| (EC) | FULLWORD | 4 | SIPARMP2 | PARAMETER PASS FIELDS |
| (F0) | FULLWORD | 4 | SIPARMP3 | PARAMETER PASS FIELDS |
| (F4) | FULLWORD | 4 | SIPARMP4 | PARAMETER PASS FIELDS |
| (F8) | FULLWORD | 4 | SIPARMP5 | PARAMETER PASS AREA |
| (FC) | FULLWORD | 4 | SIPARMP6 | PARAMETER PASS AREA |
| (100) | FULLWORD | 4 | SIPARMP7 | PARAMETER PASS AREA |
| (104) | FULLWORD | 4 | SIPARMP8 | PARAMETER PASS AREA |
| (108) | FULLWORD | 4 | SIPARMP9 | PARAMETER PASS AREA |
| TEMPORARY STORAGE CONSTANTS | | | | |
| (10C) | FULLWORD | 4 | TEMPBUF (2) | TEMPORARY STORAGE BUFFERS |
| (114) | HALFWORD | 2 | TEMPBLK | TEMPORARY STORAGE BLOCK SIZE |
| (116) | HALFWORD | 2 | TEMPCIZ | TEMPORARY STORAGE CI SIZE |
| (118) | FULLWORD | 4 | TEMPCIN | NUMBER OF CONTROL INTERVALS FOR TEMP STORAGE |
| OPERATOR COMMUNICATIONS AREA | | | | |
| (11C) | FULLWORD | 4 | SIPWTOCB | WRITE TO OPERATOR ECB (OS/VS) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|---|
| (120) | FULLWORD | 4 | SIPMSG (0) | INPUT/OUTPUT MESSAGE AREA |
| (120) | HALFWORD | 2 | SIPMSGLN | MESSAGE LENGTH |
| (122) | BITSTRING | 1 | SIPMSGTP | TYPE REQUEST BYTES |
| | 1... .. | | UNCOND | "X'80" .. UNCONDITIONAL MESSAGE |
| | .1.. .. | | GET | "X'40" .. GET (REPLY) REQUEST |
| | ..1. | | ABEND | "X'20" .. ABEND REQUEST |
| | ...1 | | SUPPRESS | "X'10" .. SUPPRESS ABEND DUMP |
| (123) | BITSTRING | 1 | SIPMSGCC | CARRIAGE CONTROL CHARACTER |
| (124) | CHARACTER | 240 | SIPMSGA | MESSAGE DATA AREA |
| Program Loader / Overlay Supervisor -- Work & parameters | | | | |
| (214) | CHARACTER | 8 | SILISTID | PROGRAM ID |
| SUBTASK & multitasking control areas | | | | |
| (21C) | FULLWORD | 4 | SISUBECB | ECB FOR SUBTASK |
| (220) | FULLWORD | 4 | SISUBTCB | ADDRESS OF TCB FOR SUBTASK |
| (224) | FULLWORD | 4 | SIPDMTEC | DOMAIN MANAGER TASK ECB |
| SM Domain domain storage tokens | | | | |
| (228) | CHARACTER | 8 | SIPDS24B | storage token CICS key & below 16M |
| (230) | CHARACTER | 8 | SIPDSANY | storage token CICS key - anywhere |
| (238) | CHARACTER | 8 | SIPDU24B | storage token User key & below 16M |
| PLIST for TEOF - moved to end of SIPCOM | | | | |
| (240) | HALFWORD | 2 | (0) | |
| (240) | ADDRESS | 4 | | Reserved |
| COMMON CODE FLAG BYTE USED: TO INDICATE WHETHER TEOF WAS ATTACHED (DOS) TO INDICATE IF TAPE SYSTEM LOG WAS CLOSED SUCCESSFULLY WHEN CICS CAME DOWN LAST (COM) | | | | |
| (244) | BITSTRING | 1 | SIPTEFLG | TEOF FLAGS |
| | 1... .. | | SIPTEAO | "X'80" TEOF SUBTASK WAS ATTACHED (DOS) |
| | .1.. .. | | SIPTEJCS | "X'40" TAPE JOURNAL WAS CLOSED SUCCESSFULLY |
| (248) | FULLWORD | 4 | | Reserved |
| (24C) | CHARACTER | 6 | | Reserved |
| SAVE AREA FOR SIP LOADER. | | | | |
| (254) | FULLWORD | 4 | SIPLSAVE (16) | SAVE AREA |
| COMMUNICATION AREA - DFHSIH1 TO DFHSI11 TO DFHSIJ1 | | | | |
| (294) | FULLWORD | 4 | SIPSPSIZ | EFFECTIVE SIZE OF SUBPOOL FOR START UP - IN K BYTES |
| (298) | FULLWORD | 4 | CHKRLSAV | SAVE SIPBAR |
| (29C) | FULLWORD | 4 | UPENTSAV | SAVE SIPBAR |
| (2A0) | ADDRESS | 4 | SIPCICNA | |
| (2A4) | ADDRESS | 4 | SIPITCAP | A(TCA acquired during initialisation) |
| (2A8) | FULLWORD | 4 | SIPPLTAD | ADDRESS OF PLTPI ENTRY POINT |
| (2AC) | FULLWORD | 4 | (4) | Reserved |
| (2BC) | BITSTRING | 8 | SIPRSDDT | Date / Time stamp |
| (2C4) | FULLWORD | 4 | SIPPLTE1 | Early PLT complete ECB |
| (2C8) | FULLWORD | 4 | SIPPLTE2 | Start late PLT ECB |
| (2CC) | FULLWORD | 4 | SIPPLTE3 | Late PLT complete ECB |
| (2CC) | FULLWORD | 4 | SIPCOMECA | *** END OF INITIALISATION COMMUNICATIONS AREA |

SIT System initialisation table

CONTROL BLOCK NAME = DFHSITPS
 DESCRIPTIVE NAME = CICS SYSTEM INITIALIZATION TABLE
 FUNCTION =
 Mapping of the CICS System Initialization Table
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 MACROS : None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|------|---------------|---------------------------------|
| (0) | STRUCTURE | 2128 | DFHSITPS | System Initialization Table |
| (0) | CHARACTER | | SITPSBA | Table entry point |
| OPERATING SYSTEM AND CICS LEVELS | | | | |
| (0) | CHARACTER | 1 | SITOPSYS | Operating System |
| (1) | CHARACTER | 1 | SITOPREL | Operating System Release |
| (2) | CHARACTER | 1 | SITCICS | CICS system |
| (3) | UNSIGNED | 1 | SITCIREL | CICS release |
| (4) | UNSIGNED | 1 | SITCIMOD | CICS modification level |
| (5) | CHARACTER | 3 | * | Reserved |
| LENGTHS OF SIT AND CWA | | | | |
| (8) | HALFWORD | 2 | SITLEN | Length of SIT |
| (A) | HALFWORD | 2 | SITCWA | Required CWA size |
| (C) | FULLWORD | 4 | * | Reserved |
| ADDRESS CONSTANTS | | | | |
| (10) | ADDRESS | 4 | DFHDLI | Address of DL/I link list |
| (14) | FULLWORD | 4 | DFHAPT | Reserved |
| (18) | ADDRESS | 4 | SITCOMA | Communications area address |
| (1C) | ADDRESS | 4 | SITOVPRM | Address of override parms |
| (20) | ADDRESS | 4 | SITINTPM | Address of SITINIT parms |
| (24) | ADDRESS | 4 | SITSRPAE | Reserved |
| (28) | ADDRESS | 4 | SITPRVMA | Address of prvmod list |
| TIME CONTROL VALUES | | | | |
| (2C) | HALFWORD | 2 | SITWBTIP | Web terminal-I/O period |
| (2E) | HALFWORD | 2 | SITWBGCI | Web garbage-collect intrvl |
| (30) | HALFWORD | 2 | * | Reserved |
| (32) | HALFWORD | 2 | SITSDTI | Terminal scan delay |
| (34) | FULLWORD | 4 | SITRICVL | Runaway task time interval |
| (38) | FULLWORD | 4 | SITICVAL | System time interval |
| (3C) | UNSIGNED | 2 | SITDFINT | LG defer interval |
| (3E) | HALFWORD | 2 | * | Reserved |
| MISCELLANEOUS SIZES, COUNTERS AND FLAGS | | | | |
| (40) | FULLWORD | 4 | SITESDSA | ESDSASZE |
| (44) | FULLWORD | 4 | SITERDSA | ERDSASZE |
| (48) | FULLWORD | 4 | SITOPTIM | Write to operator timeout value |
| (4C) | FULLWORD | 4 | SITTRTSZ | Trace table # of entries |
| (50) | CHARACTER | 1 | * | reserved |
| (51) | CHARACTER | 1 | SIT_PS_TYPE | M if MNPS |
| (52) | UNSIGNED | 2 | SITAKPFR | Activity keypoint freq |
| (54) | CHARACTER | 1 | SIT_VT_PREFIX | Common Client terminal pfx |
| (55) | BITSTRING | 1 | SITTRNTY | Tran dump trace option |
| | | | SITRALL | Option ALL |
| | | | * | Unused |
| (56) | BITSTRING | 1 | SITSRCVY | Stg. recovery byte |
| | | | SITSRYES | St. recovery requested |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| (57) | UNSIGNED | 1 | SITTCSWT | TC Shutdown Wait |
| (58) | BITSTRING | 1 | SITTCSAN | TC Shutdown Action |
| | | | SITTCSUB | TC Shut Act, Unbind |
| | | | SITTCSF0 | TC Shut Act, Force |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------|-----------|-----|--------------------|---------------------------------|
| | ..11 1111 | | * | Reserved |
| (59) | CHARACTER | 4 | SITVDLY | Autoinstall delete delay time |
| (5D) | BITSTRING | 1 | SITCHTSK | CHKSTSK option |
| | 1... .. | | * | Reserved |
| | .1.. .. | | SITTSKCR | Check current task storage |
| | ..11 1111 | | * | Reserved |
| (5E) | BITSTRING | 1 | SITCHTRM | CHKSTRM option |
| | 1... .. | | SITTRMCR | Check current terminal storage |
| | ..11 1111 | | * | Reserved |
| (5F) | BITSTRING | 1 | SITRRMS | RRMS options |
| | 1... .. | | SITRRMSYES | RRMS=YES |
| | ..11 1111 | | * | Reserved |
| (60) | FULLWORD | 4 | SITPSDI | PSDI option (HHMSS) |
| SUPERVISOR CALL LIST | | | | |
| (64) | UNSIGNED | 1 | SITSVSNO | Service svc number |
| (65) | UNSIGNED | 1 | SITSISNO | Service init. svc number |
| (66) | HALFWORD | 2 | * | Reserved |
| (68) | HALFWORD | 2 | * | Reserved |
| MISCELLANEOUS OPTIONS | | | | |
| (6A) | BITSTRING | 1 | SITSTRCD | STATistics Recrdng ON/OFF |
| | 1... .. | | SITSTRCDO | |
| | ..11 1111 | | * | Reserved |
| (6B) | CHARACTER | 1 | SITTCUA | TCTTE User Area Location |
| (6C) | UNSIGNED | 2 | SITPMULT | Dispatcher priority multiplier |
| (6E) | UNSIGNED | 1 | SITSBTSK | No. of subtasks |
| (6F) | CHARACTER | 1 | SITPMIR | MROLRM: SESSION RETAINS MIR |
| (70) | HALFWORD | 2 | SITDMPRT | Dump Retry value (DURETRY=) |
| (72) | CHARACTER | 1 | SITMROB | MRO BATCHING VALUE |
| (73) | UNSIGNED | 1 | SITASW | Aux trace autoswitch option |
| | 1... .. | | SITASWC | Aux trace autoswitch continuous |
| | .1.. .. | | SITASW1 | Aux trace autoswitch once |
| | ..11 1111 | | * | Reserved |
| (74) | CHARACTER | 4 | SITFLDSP | Field sep chars |
| (78) | CHARACTER | 1 | SITFLDST | Field start char |
| (79) | UNSIGNED | 1 | SITCONF | CONF field options |
| | 1... .. | | SITCONFXT_YES | CONFXT=YES |
| | .1.. .. | | SITCONFDATA_HIDETC | CONFDATA=HIDETC |
| | ..11 11.. | | * | Reserved |
| |1. | | SITENCST | ENCRYPTION=STRONG |
| |1 | | * | Reserved |
| (7A) | UNSIGNED | 1 | SITTROP | Trace option |
| | 1... .. | | SITITRO | Internal trace required |
| | .1.. .. | | * | Reserved |
| | ..1. | | SITUTRO | User trace required |
| | ...1 | | SITSTRO | System trace required |
| | 1... | | SITATRO | Aux trace required |
| |1. | | SITATPE | Aux trace tape device (DOS) |
| |1. | | SITGTRO | GTF trace required |
| |1 | | * | Reserved |
| (7B) | BITSTRING | 1 | SITSMDNO | System dump option (DUMP=) |
| | 1... .. | | SITSMDYS | Dump=yes |
| | .1.. .. | | SITDAE | DAE=yes |
| | ..11 1111 | | * | Reserved |
| (7C) | CHARACTER | 1 | SITDMPDS | Dump dataset suffix or X |
| (7D) | UNSIGNED | 1 | SITDMPSW | Tran dump autoswitch option |
| | 1... .. | | SITDSWY | Autoswitch required |
| | ..11 1111 | | * | Reserved |
| (7E) | UNSIGNED | 1 | SITPRINT | Print key option |
| (7F) | CHARACTER | 1 | SITMSGLV | Console msg level indicator |
| (80) | BITSTRING | 1 | SITRUWA | LE ruwa pool option |
| | 1... .. | | SITRUWPL | ruwapool yes |
| | ..11 1111 | | * | Unused |
| (81) | CHARACTER | 1 | * | reserved |
| (82) | BITSTRING | 1 | SITMSGCS | Message Case Indicator |
| | 1... .. | | SITMSGUP | Uppercase messages only |
| | .1.. .. | | SITMSGMX | Mixed Case messages. |
| | ..11 1111 | | * | Reserved |
| (83) | BITSTRING | 1 | SITDATFM | CSA date format |
| | 1... .. | | * | Reserved |
| | .1.. .. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1. | | SITDTYMD | YYMMDD |
| |1. | | SITDTDMY | DDMMYY |
| |1 | | SITDTMDY | MMDDYY |
| (84) | CHARACTER | 1 | SITFRCQR | FORCEQR option |
| (85) | CHARACTER | 1 | SITIRCS | IRC session startup option |
| (86) | CHARACTER | 1 | SITHPO | HPO option |
| (87) | CHARACTER | 1 | SITLPA | Link pack area option |
| (88) | UNSIGNED | 1 | SITFERS | Reserved |
| (89) | CHARACTER | 1 | SITEODI | Sequ. devices EOD Indicator. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|--|
| (8A) | CHARACTER | 1 | SITTCAMO | TCAM option (Y\|N) |
| (8B) | CHARACTER | 1 | SITDTBO | DTB buffers (M\|A) (DOS only) |
| (8C) | BITSTRING | 1 | SITTRAP | F.E. trap option |
| | 1... .. | | SITTRAPO | Global trap required |
| | .1.. .. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (8D) | BITSTRING | 1 | SITMONCL | Monitor options |
| | 1... .. | | SITMONY | Monitor=on |
| | .1.. | | SITMONPR | Performance class required |
| | ..1. | | SITMONEX | Exception class required |
| | ...1 | | SITMONEV | Event class required |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (8E) | BITSTRING | 1 | SITMONOP | Monitor operations |
| | 1... .. | | SITMONCO | Converse mon required |
| | .1.. | | SITMONSY | Syncpoint mon required |
| | ..1. | | SITMONTM | Monitor time in local STCK |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (8F) | CHARACTER | 4 | SITMONFR | MN frequency (0HHMMSSC) |
| (93) | CHARACTER | 8 | SITMONSS | MN sub-system id (or nulls) * |
| (9B) | CHARACTER | 8 | SITGRPLI | SPI group list id |
| Security Options | | | | |
| (A3) | CHARACTER | 7 | SITXPSB | Classname for PSB |
| (AA) | CHARACTER | 7 | SITXTRAN | Classname for TRANSATTACH |
| (B1) | CHARACTER | 7 | SITXFCT | Classname for FILE |
| (B8) | CHARACTER | 7 | SITXJCT | Classname for JOURNALNAME |
| (BF) | CHARACTER | 7 | SITXDCT | Classname for TDQUEUE |
| (C6) | CHARACTER | 7 | SITXTST | Classname for TSQUEUE |
| (CD) | CHARACTER | 7 | SITXPPT | Classname for PROGRAM |
| (D4) | CHARACTER | 7 | SITXPCT | Classname for TRANSACTION |
| (DB) | CHARACTER | 8 | SITXDB2E | Classname for DB2ENTRY |
| (E3) | CHARACTER | 6 | * | Reserved |
| (E9) | CHARACTER | 7 | SITXCMD | Classname for SPCOMMAND |
| (F0) | CHARACTER | 7 | * | Reserved |
| (F7) | BITSTRING | 1 | SITSECFL | Security flag byte |
| | 1... .. | | SITSECEX | External security requested |
| | .1.. | | SITSECPR | Resource prefix required |
| | ..1. | | * | Reserved |
| | ...1 | | SITXAPPC | RACLIST class APPCLU reqd |
| | 1... | | SITESMIN | ESM INSTLN data required |
| |1.. | | SITXUSER | Surrogate User Check reqd |
| |1. | | SITRESSE | Always enact resrce check |
| |1 | | SITCMDSE | Always enact command check |
| (F8) | CHARACTER | 8 | SITDFUSR | Default Security userid |
| (100) | HALFWORD | 2 | SITUDTIM | Tuning parm value for User Directory Timeout |
| (102) | HALFWORD | 2 | SITLUIT | LUIT tuning parm value |
| (104) | UNSIGNED | 1 | SITSCOPE | Signon Scope Checking |
| (105) | CHARACTER | 8 | SITSECPX | Security Resource Prefix |
| (10D) | BITSTRING | 1 | SITPLTSC | PLTPI Security options |
| | 1... .. | | SITPLTCM | Command level checking |
| | .1.. | | SITPLTRS | Resource level checking |
| | ..11 1111 | | * | Reserved |
| (10E) | CHARACTER | 8 | SITPLTID | PLTPI User id |
| (116) | CHARACTER | 1 | SITEMIR | MROFSE: retain mirror |
| (117) | CHARACTER | 1 | * | Reserved |
| DUMP OPTIONS | | | | |
| (118) | FULLWORD | 4 | SITTRNSZ | Size of tran dmp trace |
| (11C) | CHARACTER | 18 | * | Reserved |
| BASIC MAPPING SUPPORT OPTIONS | | | | |
| (12E) | UNSIGNED | 1 | SITPGCHN | Pgchain length |
| (12F) | CHARACTER | 7 | * | Pgchain data |
| (136) | UNSIGNED | 1 | SITPGCPY | Pgcopy length |
| (137) | CHARACTER | 7 | * | Pgcopy data |
| (13E) | UNSIGNED | 1 | SITPGPRG | Pgpurge length |
| (13F) | CHARACTER | 7 | * | Pgpurge data |
| (146) | UNSIGNED | 1 | SITPGRET | Pgret length |
| (147) | CHARACTER | 7 | * | Pgret data |
| (14E) | CHARACTER | 2 | SITFCOMP | Reserved |
| (150) | BITSTRING | 3 | SITPRGD | Purge delay interval HHMM |
| (153) | BITSTRING | 1 | SITPOPT | BMS process options |
| | 1... .. | | * | Reserved |
| | .1.. | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--------------------------------|
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | SITALGN | Default map aligned |
| |1. | | SITNDDS | No device-dependent suffixing |
| |1 | | * | Reserved |
| (154) | CHARACTER | 1 | SITBMSO | BMS option (M\|S\|F) |
| END OF BMS OPTIONS | | | | |
| (155) | CHARACTER | 1 | SITDISM | Disable Trans after ASRD |
| TABLE SUFFICES | | | | |
| (156) | CHARACTER | 2 | * | Reserved |
| (158) | CHARACTER | 2 | SITDCTSF | Destination control table |
| (15A) | CHARACTER | 2 | SITFCTSF | File control table |
| (15C) | CHARACTER | 2 | * | Reserved |
| (15E) | CHARACTER | 2 | * | Reserved |
| (160) | CHARACTER | 2 | * | Reserved |
| (162) | CHARACTER | 2 | SITPLTPI | PLT (program initialization) |
| (164) | CHARACTER | 2 | SITPLTSD | PLT (shutdown) |
| (166) | CHARACTER | 2 | * | Reserved |
| (168) | CHARACTER | 2 | SITSRTSF | System recovery table |
| (16A) | CHARACTER | 2 | SITTCTSF | Terminal control table |
| (16C) | CHARACTER | 2 | SITTSTSF | Temporary storage table |
| (16E) | CHARACTER | 2 | SITXLSF | Transaction list table |
| (170) | CHARACTER | 2 | SITMCTSF | Monitor control table |
| (172) | CHARACTER | 2 | SITCBDSF | CBD initialization table |
| DSA sizes, cushion sizes and storage protect parms | | | | |
| (174) | FULLWORD | 4 | SITDSA | Upper DSA limit |
| (178) | FULLWORD | 4 | SITEDSA | Upper EDSA limit |
| (17C) | FULLWORD | 4 | SITCDSA | CDSASZE |
| (180) | FULLWORD | 4 | SITUDSA | UDSASZE |
| (184) | FULLWORD | 4 | SITSDSA | SDSASZE |
| (188) | FULLWORD | 4 | SITRDSA | RDSASZE |
| (18C) | FULLWORD | 4 | SITECDSA | ECDSASZE |
| (190) | FULLWORD | 4 | SITEUDSA | EUDSASZE |
| (194) | FULLWORD | 4 | SITTRDUMAX | Dump table maximum |
| (198) | FULLWORD | 4 | SITSYDUMAX | Dump table maximum |
| (19C) | BITSTRING | 1 | SITCICSF | Storage protection flags |
| | 1... | | SITSTPRO | STGPROT 0=NO 1=YES |
| | .1.. | | SITCWAKY | CWAKY 0=USER 1=CICS |
| | ..1. | | SITTCTUA | TCTUAKEY 0=USER 1=CICS |
| | ...1 | | SITRNTPGM | RENTPGM 0=PROT 1=NOPROT |
| | 1... | | SITTRNISO | TRANISO 0=NO 1=YES |
| |1.. | | SITCMDPRO | CMDPROT 0=NO 1=YES |
| The SLD SIT parameter can only be specified as an override. It cannot be specified in the SIT. It is for test only and will be hidden from the customer. | | | | |
| |1. | | SITSLDYES | SLD? 0=NO 1=YES |
| |1 | | * | Reserved |
| (19D) | UNSIGNED | 1 | * | Reserved |
| NUCLEUS MODULE SUFFICES | | | | |
| THE FOLLOWING 7 FIELDS ARE USED BY CICS BUT THEY ARE NOT AVAILABLE TO THE USER | | | | |
| (19E) | CHARACTER | 2 | SITMCPSF | BMS MCP suffix set by CICS |
| (1A0) | CHARACTER | 2 | SITRLRSF | BMS RLR suffix set by CICS |
| (1A2) | CHARACTER | 2 | SITPBPSF | BMS PBP suffix set by CICS |
| (1A4) | CHARACTER | 2 | SITM32SF | BMS M32 suffix set by CICS |
| (1A6) | CHARACTER | 2 | SITPPPSF | BMS TPP suffix set by CICS |
| (1A8) | CHARACTER | 2 | SITIIPSF | BMS IIP suffix set by CICS |
| (1AA) | CHARACTER | 2 | SITDSBSF | BMS DSB suffix set by CICS |
| (1AC) | CHARACTER | 2 | SITTCPSF | Terminal control pgm (BTAM) |
| (1AE) | CHARACTER | 2 | * | Reserved |
| (1B0) | CHARACTER | 2 | * | Reserved |
| (1B2) | CHARACTER | 2 | * | Reserved |
| (1B4) | CHARACTER | 2 | SITDIPSF | Data interchange option/suffix |
| (1B6) | CHARACTER | 2 | * | Reserved |
| (1B8) | CHARACTER | 2 | SITDL1 | DL/I suffix |
| SIT PARAMETERS FOR ISC | | | | |
| (1BA) | CHARACTER | 2 | SITISCSF | General ISC suffix |
| (1BC) | CHARACTER | 2 | * | Reserved |
| (1BE) | CHARACTER | 2 | * | Reserved |
| (1C0) | CHARACTER | 2 | * | Reserved |
| SIT OPTION FOR EXECUTION INTERFACE | | | | |
| (1C2) | CHARACTER | 2 | * | Reserved |
| (1C4) | CHARACTER | 6 | * | Reserved |
| (1CA) | CHARACTER | 8 | SITTBPX6 | TBP exit program 6 |
| (1D2) | CHARACTER | 8 | SITGRNME | Generic resource applid |
| (1DA) | CHARACTER | 8 | SITTBPX1 | TBP exit program 1 |
| (1E2) | CHARACTER | 8 | SITTBPX2 | TBP exit program 2 |
| (1EA) | CHARACTER | 6 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------------|
| START-UP OPTIONS | | | | |
| (1F0) | CHARACTER | 1 | SITSTRTA | Auto start requested (Y\|N) |
| (1F1) | CHARACTER | 1 | SITSTART | CICS/ESA start-up option |
| (1F2) | CHARACTER | 1 | SITIND | Emergency indicator |
| (1F3) | CHARACTER | 1 | SITFEPOP | FEPI required Y/N |
| SITFEPIN CONSTANT('Y') - required SITFEPOU CONSTANT('N') - absent | | | | |
| (1F4) | CHARACTER | 1 | SITSINIT | START=INITIAL indicator |
| SITSINIY CONSTANT('Y') - Yes, qualifies SITSTART=I SITSININ CONSTANT('N') - No | | | | |
| (1F5) | BITSTRING | 1 | SITSOFFS | OFFSITE settings:- |
| | 1... .. | | SITOFFSI | This is an offsite restart |
| | .111 1111 | | * | Reserved |
| (1F6) | BITSTRING | 1 | SITDCTOP | DCT EMPTY option status |
| | 1... .. | | SITINTRA | DCT=xx,EMPTY specified |
| | .111 1111 | | * | Reserved |
| (1F7) | BITSTRING | 1 | SITFSSTA | Function ship start option |
| | 1... .. | | SITFSSTY | Link affinity required |
| | .111 1111 | | * | Reserved |
| (1F8) | BITSTRING | 1 | SITCBD | CICS-to-CBD init. option |
| | 1... .. | | SITCBDY | initialization requested |
| | .111 1111 | | * | reserved |
| (1F9) | UNSIGNED | 1 | SITICPOP | Start-up option |
| (1FA) | UNSIGNED | 1 | SITTSPOP | Start-up option |
| (1FB) | CHARACTER | 1 | SITDBCOP | DBCTL connect required Y\|N |
| (1FC) | CHARACTER | 1 | SITDB2OP | DB2 connect required Y\|N |
| (1FD) | UNSIGNED | 1 | SITBMSOP | Start-up option |
| (1FE) | CHARACTER | 1 | SITMQOP | MQ connect required Y\|N |
| (1FF) | BITSTRING | 1 | SITFEAT | Miscellaneous features |
| | 1... .. | | SITFEAWB | Web Interface feature |
| | .1. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (200) | UNSIGNED | 1 | SITPSOPT | System spooling option |
| (201) | CHARACTER | 1 | SITPSID | Special feature ident. |
| (202) | CHARACTER | 1 | SITPSCLS | Special feature class. |
| (203) | CHARACTER | 4 | SITGMNM | Good Morning Transaction |
| (207) | CHARACTER | 4 | SITGNITE | Good Night Transaction |
| (20B) | CHARACTER | 1 | * | Reserved |
| MAXIMUM TASK COUNTS | | | | |
| (20C) | HALFWORD | 2 | SITMXOTS | Max Open TCBs limit |
| (20E) | HALFWORD | 2 | SITMXTSK | Max task count, packed decimal * |
| SHUTDOWN ASSIST TRANSACTION | | | | |
| (210) | CHARACTER | 4 | SITSDTRN | SHUT DOWN TRANSACTION |
| (214) | CHARACTER | 8 | SITNCPLD | NAMED COUNTER POOL DEFAULT |
| (21C) | CHARACTER | 8 | SITCODPG | Default document codepage |
| VALUES FROM OLD DFHTCT TYPE=INITIAL MACRO | | | | |
| (224) | ADDRESS | 4 | SITGMTAD | Address of good morning message |
| (228) | CHARACTER | 4 | SITSYSID | Local system entry name |
| (22C) | HALFWORD | 2 | SITRPL | VTAM receive any RPL count |
| (22E) | HALFWORD | 2 | SITRAMAX | Max i/o area for receive any's |
| (230) | HALFWORD | 2 | SITOPNDL | Max opndst/clsdst count |
| (232) | BITSTRING | 1 | SITACMTH | Access Method flags |
| | 1... .. | | SITVTAM | VTAM=YES |
| | .1. | | SITLGNMS | LOGONMSG=YES |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | SITTCPIP | TCPIP=YES |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (233) | BITSTRING | 1 | SITRESP | Logical Unit Response type |
| | 1... .. | | SITFME | Function management end |
| | .1. | | SITRRN | Reached recovery node |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| SINGLE KEY RETRIEVAL TABLE | | | | |
| (234) | CHARACTER | 624 | SITSKRTB | 39key x 16byte SKR cmd table |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------------|---------------------------------|
| FURTHER MISCELLANEOUS SIZES AND COUNTERS | | | | |
| (4A4) | HALFWORD | 2 | SITDBNO | No. of buffers for I/P TD |
| (4A6) | HALFWORD | 2 | SITDSNO | No. of strings for I/P TD |
| (4A8) | HALFWORD | 2 | SITTSBNO | No. of buffers for aux TS |
| (4AA) | HALFWORD | 2 | SITSSNO | No. of strings for aux TS |
| (4AC) | FULLWORD | 4 | SITVMXWE | Max # autoinstall WE's |
| (4B0) | CHARACTER | 8 | SITVAXIT | Autoinstall user-program name |
| (4B8) | CHARACTER | 8 | SITTBPX3 | TBP exit program 3 |
| (4C0) | CHARACTER | 8 | SITTBPX4 | TBP exit program 4 |
| (4C8) | CHARACTER | 8 | SITTBPX5 | TBP Exit Program 5 |
| (4D0) | CHARACTER | 8 | SITUOWNQ | UOW network qual (VTAM=NO) |
| (4D8) | CHARACTER | 1 | SITVAICN | Console autol (YES\|NO\|AUTO) |
| (4D9) | CHARACTER | 3 | * | RESERVED |
| XRF - DEFINITIONS FOR ACTIVE AND BACKUP | | | | |
| (4DC) | CHARACTER | 1 | SITXRFFN | XRF function |
| (4DD) | CHARACTER | 1 | SITXRSNS | CICS (XRF) signon state |
| (4DE) | CHARACTER | 8 | SITGAPLD | Generic applid |
| (4E6) | CHARACTER | 8 | SITSAPLD | Specific applid |
| XRF - DEFINITIONS FOR ACTIVE | | | | |
| (4EE) | HALFWORD | 2 | * | Reserved |
| (4F0) | FULLWORD | 4 | SITPDI | Action delay interval |
| XRF - DEFINITIONS FOR BACKUP | | | | |
| (4F4) | CHARACTER | 1 | SITTAKE | Takeovr option |
| (4F5) | CHARACTER | 8 | SITCLT | Command list table |
| (4F5) | CHARACTER | 6 | * | - prefix |
| (4FB) | CHARACTER | 2 | SITCLTSF | - suffix |
| (4FD) | CHARACTER | 3 | * | Reserved |
| (500) | FULLWORD | 4 | SITADI | Action delay interval |
| (504) | FULLWORD | 4 | SITJDI | JES delay interval |
| (508) | CHARACTER | 4 | SITRMTRN | Recovery transaction |
| XRF - DEFINITIONS FOR BOTH AND XRF=NO | | | | |
| (50C) | FULLWORD | 4 | SITACOND | Autoconnect delay |
| RESERVED FOR RESTRUCTURE | | | | |
| (510) | BITSTRING | 1 | SITPMERR | Initialization parameter errors |
| | 1... .. | | SITPMACT | ...interact with the console op |
| | .1.. .. | | SITPMIGN | ...ignore them |
| | ..1. | | SITPMABN | ...abend CICS on errors |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (511) | BITSTRING | 1 | SITNEW | NEWSIT= override? |
| | 1... .. | | SITNEWY | ...yes |
| | .1.. .. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (512) | BITSTRING | 1 | SITXSIGN | XRF sign-on byte |
| | 1... .. | | SITXSFR | Force sign-on requested |
| | .1.. .. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (513) | BITSTRING | 1 | SITMISC | Miscellaneous bits |
| | 1... .. | | SITRAPLF | RAPOOL FORCE specified |
| (514) | FULLWORD | 4 | * | Reserved |
| (518) | FULLWORD | 4 | * | Reserved |
| (51C) | CHARACTER | 8 | SITAXI | AXI table |
| (51C) | CHARACTER | 6 | * | - prefix (DFHAXI or blanks) |
| (522) | CHARACTER | 2 | SITAXISF | - suffix |
| (524) | CHARACTER | 8 | SITDRPGN | Dynamic Routing Program |
| (52C) | HALFWORD | 2 | SITHRAPL | HPO rapool value |
| (52E) | HALFWORD | 2 | SITXSFI | XRF signoff timeout in mins |
| (530) | CHARACTER | 4 | SITRTRN2 | XRF signed-on transaction |
| (534) | CHARACTER | 4 | SITDRTRN | Dynamic Routing Transaction * |
| SIT OVERRIDE EXISTENCE BITS - one per SIT field | | | | |
| (538) | CHARACTER | 32 | SIT_EXISTENCE_BITS | |
| (538) | BITSTRING | 1 | * | |
| | 1... .. | | SITOPSYS_X | Operating system level |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---------------------------|
| | .1.. | | SITOPREL_X | Operating system release |
| | .1.. | | SITCICS_X | CICS system |
| | ...1 | | SITCIREL_X | CICS release |
| | 1... | | SITLEN_X | SIT length |
| |1.. | | SITCWA_X | WRKAREA= existence bit |
| |1.. | | DFHDLX_X | Addr of DL/I link list |
| |1 | | DFHAPT_X | Reserved |
| (539) | BITSTRING | 1 | * | |
| | 1... | | SITCOMA_X | Communications area addr |
| | .1.. | | SITOVPRM_X | Addr of override para |
| | .1.. | | * | Reserved |
| | ...1 | | SITSRPAE_X | Reserved |
| | 1... | | SITPRVMA_X | PRVMOD= existence bit |
| |1.. | | SITICVAL_X | ICV= existence bit |
| |1.. | | SITRICVL_X | ICVR= existence bit |
| |1 | | SITDFINT_X | Reserved for LGDFINT= bit |
| (53A) | BITSTRING | 1 | * | |
| | 1... | | SITSDTI_X | ICVTSD= existence bit |
| | .1.. | | SITFTIMO_X | FTIMEOUT= existence bit |
| | .1.. | | SITQTIMO_X | QUIESTIM= existence bit |
| | ...1 | | SITSYDUMAX_X | SYDUMAX= existence bit |
| | 1... | | SITTRDUMAX_X | TRDUMAX= existence bit |
| |1.. | | SITTRTSZ_X | TRTABSZ= existence bit |
| |1.. | | * | Reserved |
| |1 | | SITAKPFR_X | AKPFREQ= existence bit |
| (53B) | BITSTRING | 1 | * | |
| | 1... | | SITDBLBL_X | DBP= existence bit |
| | .1.. | | SITSRVCVY_X | STGRVCVY= existence bit |
| | .1.. | | * | Reserved |
| | ...1 | | SITPSDL_X | PSDL= existence bit |
| | 1... | | * | Reserved |
| |1.. | | SITSTG_X | |
| |1.. | | SITSVSNO_X | SVC= existence bit |
| |1 | | SITSISNO_X | SRBSVC= existence bit |
| (53C) | BITSTRING | 1 | * | |
| | 1... | | SITFLDSP_X | FLDSEP= existence bit |
| | .1.. | | SITSTR_X | SYSTR= existence bit |
| | .1.. | | SITUTR_X | USERTR= existence bit |
| | ...1 | | SITITR_X | INTTR= existence bit |
| | 1... | | SITGTR_X | GTFTTR= existence bit |
| |1.. | | SITATR_X | AUXTR= existence bit |
| |1.. | | SITASW_X | AUXTRSW= existence bit |
| |1 | | * | Reserved |
| (53D) | BITSTRING | 1 | * | |
| | 1... | | SITSDUMP_X | DUMP existence bits |
| | .1.. | | SITDMPDS_X | DUMP= existence bit |
| | .1.. | | SITDMPRT_X | DUMPDS= existence bit |
| | ...1 | | SITDMPSW_X | DURETRY= existence bit |
| | 1... | | SITMSGCS_X | DUMPDSW= existence bit |
| |1.. | | SITGRNME_X | MSGCASE= existence bit |
| |1.. | | SITDAE_X | GRNAME= existence bit |
| |1 | | * | DAE= existence bit |
| |1 | | * | Reserved |
| (53E) | BITSTRING | 1 | * | |
| | 1... | | SITPRINT_X | PRINT= existence bit |
| | .1.. | | SITMSGLV_X | MSGGLVL= existence bit |
| | .1.. | | SITPL1_X | |
| | ...1 | | SITRUWPL_X | RUWAPOOL existence |
| | 1... | | SITDTYMD_X | DATFORM=YMMDD existence |
| |1.. | | SITDTDMY_X | DATFORM=DDMMYY existence |
| |1.. | | SITDTMDY_X | DATFORM=MMDDYY existence |
| |1 | | SITVSPL1_X | |
| (53F) | BITSTRING | 1 | * | |
| | 1... | | SITIRCS_X | IRC= existence bit |
| | .1.. | | SITHPO_X | HPO= existence bit |
| | .1.. | | SITLPA_X | LPA= existence bit |
| | ...1 | | SITCBD_X | CBD= existence bit |
| | 1... | | SITEODL_X | EODL= existence bit |
| |1.. | | SITTCAMO_X | TCAM= existence bit |
| |1.. | | SITCBDSF_X | CBDSUFFX= existence bit |
| |1 | | SITTRAPO_X | TRAP= existence bit |
| (540) | BITSTRING | 1 | * | |
| | 1... | | SITMONY_X | MN= existence bit |
| | .1.. | | SITMONPR_X | MNPER= existence bit |
| | .1.. | | SITMONEX_X | MNEXC= existence bit |
| | ...1 | | SITMONEV_X | MNEVE= existence bit |
| | 1... | | SITGRPLI_X | GRPLIST= existence bit |
| |1.. | | SITPGCPY_X | PGCOPY= existence bit |
| |1.. | | SITPGPRG_X | PGPURGE= existence bit |
| |1 | | SITPGRET_X | PGRET= existence bit |
| (541) | BITSTRING | 1 | * | |
| | 1... | | SITFCOMP_X | |
| | .1.. | | SITPRGD_X | PRGDLAY= existence bit |
| | .1.. | | SITALGN_X | ALIGN= existence bit |
| | ...1 | | SITNDDS_X | NODDS= existence bit |
| | 1... | | SITMCTSF_X | MCT= existence bit |
| (542) | BITSTRING | 1 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| | 1... .. | | SITCDSA_X | CDSASZE existence bit |
| | .1. | | SITUDSA_X | UDSASZE existence bit |
| | ..1. | | SITSDSA_X | SDSASZE existence bit |
| | ...1 | | SITRDSA_X | RDSASZE existence bit |
| | 1... | | SITECDSA_X | ECDSASZE existence bit |
| |1.. | | SITEUDSA_X | EUDSASZE existence bit |
| |1. | | SITESDSA_X | ESDSASZE existence bit |
| |1 | | SITERDSA_X | ERDSASZE existence bit |
| (543) | CHARACTER | 1 | * | Reserved * |
| (544) | FULLWORD | 4 | * | Reserved |
| (548) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITSTRTA_X | Reserved |
| | .1. | | * | Reserved |
| | ..1. | | SITSTART_X | START= existence bit |
| | ...1 | | SITIND_X | |
| | 1... | | SITCTOP_X | TCT startup option |
| |1.. | | SITDCTOP_X | DCT startup option |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (549) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITPPTOP_X | PPT startup option |
| | .1. | | SITPCTOP_X | PCT startup option |
| | ..1. | | SITCSAOP_X | CSA startup option |
| | ...1 | | SITICPOP_X | ICP startup option |
| | 1... | | SITTSPOP_X | TSP startup option |
| |1.. | | * | Reserved |
| |1. | | SITBMSOP_X | BMS startup option |
| |1 | | * | Reserved |
| (54A) | BITSTRING | 1 | * | Reserved |
| | 1... | | * | Reserved |
| | .1. | | * | Reserved |
| | ..1. | | * | Reserved |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | SITPMULT_X | PYTRAGE= existence bit |
| |1. | | SITSBTSK_X | SUBTSKS= existence bit |
| |1 | | SITGMNM_X | GMTRAN= existence bit |
| (54B) | BITSTRING | 1 | * | Reserved (wbhttp not needed@QIC |
| | 1... | | * | Reserved |
| | .1. | | SITMXTSK_X | MXT= existence bits |
| | ..1. | | SITWBTP_X | WEBDELAY(1) existence bit |
| | ...1 | | SITWBGCL_X | WEBDELAY(2) existence bit |
| | 1... | | SITFEAT1_X | Miscellaneous feature 1 |
| |1.. | | SITFEAT2_X | Miscellaneous feature 2 |
| |1. | | SITFEAT3_X | Miscellaneous feature 3 |
| |1 | | SITFEAT4_X | Miscellaneous feature 4 |
| (54C) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITFEAT5_X | Miscellaneous feature 5 |
| | .1. | | SITFEAT6_X | Miscellaneous feature 6 |
| | ..1. | | SITFEAT7_X | Miscellaneous feature 7 |
| | ...1 | | SITFEAT8_X | Miscellaneous feature 8 |
| | 1... | | SITGMTAD_X | CSECT address |
| |1.. | | SITSYSID_X | SYSIDNT= existence bit |
| |1. | | SITRAPL_X | RAPOOL= existence bit |
| |1 | | SITHRAPL_X | HPO RAPOOL= existence bit |
| (54D) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITOPNDL_X | OPNDLIM= existence bit |
| | .1. | | SITVTAM_X | VTAM= existence bit |
| | ..1. | | SITLGNMS_X | LGNMSG= existence bit |
| | ...1 | | SITSKRTB_X | SKRxxx= existence bit |
| | 1... | | SITTDNO_X | TD= existence bit 1st |
| |1.. | | SITDSDNO_X | TD= existence bit 2nd |
| |1. | | SITTSBNO_X | TS= existence bit buffers |
| |1 | | SITSSNO_X | TS= existence bit start |
| (54E) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITVMXWE_X | AIQMAX= existence bit |
| | .1. | | SITVAXIT_X | AIEKIT= existence bit |
| | ..1. | | SITRAPLF_X | RAPOOL FORCE existence |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | SITUOWNQ_X | UOWNETQL existence bit |
| |1. | | SITXRFFN_X | XRF= existence bit |
| |1 | | SITXRSNS_X | |
| (54F) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITGAPLD_X | APPLID= existence 1st |
| | .1. | | SITSAPLD_X | APPLID= existence 2nd |
| | ..1. | | SITPDI_X | PDI= existence bit |
| | ...1 | | SITTAKE_X | TAKEOVR= existence bit |
| | 1... | | SITCLT_X | CLT= existence bit |
| |1.. | | SITCLTSF_X | CLT= existence bit |
| |1. | | SITADI_X | ADI= existence bit |
| |1 | | SITJDI_X | JESDI= existence bit |
| (550) | BITSTRING | 1 | * | Reserved |
| | 1... | | SITRMTRN_X | RMTRAN= existence bit |
| | .1. | | SITPMERR_X | PARMERR= existence bit |
| | ..1. | | SITNEW_X | NEWSIT= existence bit |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|----------------------------|
|  | .... |  | SITDSRPM_X | DSRTPGM= existence bit |
| | 1... | | SITTRNTY_X | TRTRANTY = existence bit |
| |1.. | | SITTRNSZ_X | TRTRANSZ = existence bit |
| |1. | | SITAXI_X | RST= existence bit |
| |1 | | SITLANGS_X | NATLANG= existence bit |
| (551) | BITSTRING | 1 | * | |
| | 1... .. | | SITGTRST_X | STNTR= existence bit stan |
| | .1.. .. | | SITGTRSP_X | STNTR= existence bit spec |
| | .1.. .. | | SITMROB_X | MRO BATCHING PARAMETER |
| | ...1 .. | | SITTCUA_X | TCTUALOC existence bit |
| | 1... | | SITINIT_X | INITPARM existence bit |
| |1.. | | SITDISM_X | DISMACP existence bit |
| |1. | | SITSTRCD_X | STATRCD existence bit |
| |1 | | SITUDTIM_X | UDTIM existence bit |
| (552) | BITSTRING | 1 | * | |
| | 1... .. | | SITLUIT_X | LUITIME existence bit |
| | .1.. .. | | SITDSA_X | DSALIM existence bit |
| | .1.. .. | | SITEDSA_X | EDSALIM existence bit |
| | ...1 .. | | SITLLACP_X | LLACOPY existence bit |
| | 1... | | SITSLD_X | SLD existence flag |
| |1.. | | SITGRPL2_X | GRPLIST = existence bit 2 |
| |1. | | SITGRPL3_X | GRPLIST = existence bit 3 |
| |1 | | SITGRPL4_X | GRPLIST = existence bit 4 |
| (553) | BITSTRING | 1 | * | |
| | 1... .. | | SITREMDL_X | Remote delete idle |
| | .1.. .. | | SITREMDI_X | Remote delete interval |
| | .1.. .. | | SITCMDPRO_X | CMDPROT existence |
| | ...1 .. | | SITTCUAKY_X | TCTUAKY existence |
| | 1... | | SITCWAKY_X | CWAKEY existence |
| |1.. | | SITSTPRO_X | STORPROT existence |
| |1. | | SITRNTPGM_X | RENTPGM existence |
| |1 | | SITTRNISO_X | TRANISO existence |
| (554) | BITSTRING | 1 | * | |
| | 1... .. | | SITMONCO_X | Converse monitoring exist |
| | .1.. .. | | SITMONSY_X | Syncpoint monitoring exist |
| | .1.. .. | | SITMONTM_X | MNTIME exists |
| | ...1 .. | | SITMONFR_X | Frequency monitoring exist |
| | 1... | | SITMONSS_X | sub-system id exists |
| |1.. | | SITAPGM_X | PG autoinstall state |
| |1. | | SITACTG_X | PG autoinstall catalog |
| |1 | | SITAPXT_X | PG autoinstall exit |
| (555) | BITSTRING | 1 | * | |
| | 1... .. | | SITFRCQR_X | FORCEQR override coded |
| | .1.. .. | | SITMXOTS_X | MAXOPENTCBS override coded |
| (556) | BITSTRING | 1 | * | Reserved |
| (557) | BITSTRING | 1 | * | Reserved |

The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain.

| | | | | |
|-------|-----------|---|----------|--------------------------|
| (558) | BITSTRING | 8 | SITTRXST | Standard Trace Existence |
|-------|-----------|---|----------|--------------------------|

The following table defines 64 Trace Selectivity Bits for special trace. There is one bit for each domain.

| | | | | |
|-------|-----------|---|----------|-------------------------|
| (560) | BITSTRING | 8 | SITTRXSP | Special Trace Existence |
|-------|-----------|---|----------|-------------------------|

TRACE SELECTIVITY TABLE

| | | | | |
|-------|-----------|-----|---------------|----------------------|
| (568) | CHARACTER | 512 | SITTRSTB | Beginning of table |
| (568) | BITSTRING | 4 | SITTRSTN (64) | Standard trace flags |
| (668) | BITSTRING | 4 | SITTRSPC (64) | Special trace flags |

NATIONAL LANGUAGES LIST

| | | | | |
|-------|-----------|----|----------|-------------------------|
| (768) | CHARACTER | 36 | SITLANGS | National Languages list |
|-------|-----------|----|----------|-------------------------|

CSD PARAMETERS

| | | | | |
|-------|-----------|----|----------|-------------------------|
| (78C) | CHARACTER | 44 | SITCSDSN | CSDSN ie 44 char DSNAME |
| (7B8) | FULLWORD | 4 | SITCSDST | CSDSTRNO |
| (7BC) | FULLWORD | 4 | SITCSDBI | CSDBUFNI |
| (7C0) | FULLWORD | 4 | SITCSDBD | CSDBUFND |
| (7C4) | HALFWORD | 2 | SITCSDL | CSDLRNO |
| (7C6) | HALFWORD | 2 | SITCSDJI | CSDJID |
| (7C8) | HALFWORD | 2 | SITCSDFR | CSDFRLOG |
| (7CA) | BITSTRING | 1 | SITCSDRC | CSDRECOV |

| | | | | |
|-------|-----------|---|----------|----------|
| (7CB) | BITSTRING | 1 | SITCSIMG | CSDIMAGE |
|-------|-----------|---|----------|----------|

| | | | | |
|-------|-----------|---|----------|--------|
| (7CC) | BITSTRING | 1 | SITCSDAC | CSDACC |
|-------|-----------|---|----------|--------|

| | | | | |
|-------|-----------|---|----------|---------|
| (7CD) | BITSTRING | 1 | SITCSDIS | CSDDISP |
|-------|-----------|---|----------|---------|

| | | | | |
|-------|-----------|---|----------|-----------------------|
| (7CE) | BITSTRING | 1 | * | RLS flags |
| | 1... .. | | SITCSRLS | CSD uses RLS |
| | .1.. .. | | SITCSNRI | Integrity=uncommitted |
| | .1.. .. | | SITCSCR | Integrity=consistent |
| | ...1 .. | | SITCSRR | Integrity=repeatable |
| | 1111 | | * | Reserved |
| (7CF) | BITSTRING | 1 | SITVRLS | RLS settings |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|-----------|-----|------------|---------------------------|
| | 1... .. | | SITRLS | RLS enabled for this CICS |
| | .1.. | | SITRTOL | RLS files in pool build |
| | ..11 1111 | | * | Reserved |
| AIDELAY KEYWORD | | | | |
| (7D0) | CHARACTER | 4 | SITDDL | AIDELAY DELETE DELAY TIME |
| CLSDSTP KEYWORD | | | | |
| (7D4) | CHARACTER | 1 | SITCLSP | CLSDST NOTIFY/NONOTIFY |
| LLACOPY KEYWORD | | | | |
| (7D5) | BITSTRING | 1 | SITLLACP | LLACOPY OPTION |
| | 1... .. | | SITLLAY | LLACOPY=YES |
| | .1.. | | SITLLAN | LLACOPY=NO |
| | ..1. | | SITLLANC | LLACOPY=NEWCOPY |
| PGAIPGM KEYWORD | | | | |
| (7D6) | CHARACTER | 1 | SITAPGM | PG autoinstall state |
| PGAICTLG KEYWORD | | | | |
| (7D7) | CHARACTER | 1 | SITACTG | PG autoinstall catalog |
| PGAEXIT KEYWORD | | | | |
| (7D8) | CHARACTER | 8 | SITAPXT | PG autoinstall exit |
| Extended GRPLIST parameter | | | | |
| (7E0) | CHARACTER | 8 | SITGRPL2 | SPI grouplist 2 |
| (7E8) | CHARACTER | 8 | SITGRPL3 | SPI grouplist 3 |
| (7F0) | CHARACTER | 8 | SITGRPL4 | SPI grouplist 4 |
| Terminal idle keyword | | | | |
| (7F8) | UNSIGNED | 4 | SITREMDL | Remote delete idle |
| Interval keyword | | | | |
| (7FC) | CHARACTER | 4 | SITREMDI | Remote delete interval |
| RLS Section of SIT | | | | |
| (800) | UNSIGNED | 2 | SITFTIMO | RLS timeout |
| (802) | UNSIGNED | 2 | SITQTIMO | RLS quiesce timeout |
| Distributed routing program | | | | |
| (804) | CHARACTER | 8 | SITDSPGN | Distributed routing pgm |
| SECURE SOCKETS LAYER parameters | | | | |
| (80C) | UNSIGNED | 4 | SITSSLTI | SSL V3 timeout value |
| (810) | CHARACTER | 48 | SITSSKYF | SSL Keyfile |
| (840) | CHARACTER | 16 | SITSSKYQ | SSL Keyfile qualifier |
| (850) | CHARACTER | | DFHSITEA | End of table label |

TRACE SELECTIVITY TABLE REDEFINED

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|---|
| (568) | STRUCTURE | 256 | SITRSTA | Redefine the table |
| (568) | BITSTRING | 4 | SITTRST1 (15) | Standard trace flags for first 15 domains |
| (5A4) | BITSTRING | 4 | SITAPSTN | AP Standard trace flags |
| (5A8) | BITSTRING | 4 | SITRMSTN | RM Standard trace flags |
| (5AC) | BITSTRING | 4 | SITA2STN | A2 Standard trace flags |
| (5B0) | BITSTRING | 4 | SITTRST2 (8) | Standard trace flags for next 8 domains |
| (5D0) | BITSTRING | 24 | * | for future domains |
| (5E8) | BITSTRING | 4 | SITTRSP1 (15) | Special trace flags for first 15 domains |
| (624) | BITSTRING | 4 | SITAPSPC | AP Special trace flags |
| (628) | BITSTRING | 4 | SITRMSPC | RM Special trace flags |
| (62C) | BITSTRING | 4 | SITA2SPC | AP Special trace flags |
| (630) | BITSTRING | 4 | SITTRSP2 (8) | Special trace flags for next 8 domains |
| (650) | BITSTRING | 24 | * | for future domains |

DL/I EXTENSION OF SIT

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 4 | DFHLISTA | |
| (0) | BITSTRING | 1 | DLIFLG | Flag value |
| | 1... .. | | * | Reserved |
| | .1.. | | * | Reserved |
| | ..1. | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|-----------------------|
| |1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | DLIPSBCK | PSB checking required |
| |1 | | * | Reserved |
| (1) | BITSTRING | 1 | * | Reserved |
| (2) | CHARACTER | 2 | DLPDIRSF | PDIR suffix |

GOOD MORNING MESSAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 248 | DFHGMMS | |
| (0) | HALFWORD | 2 | SITGMTXL | Message length |
| (2) | CHARACTER | 246 | SITGMTXT | |
| (2) | CHARACTER | 13 | * | Message number |
| (F) | CHARACTER | 19 | * | Default message |
| (22) | CHARACTER | 5 | * | Trailer |
| (27) | CHARACTER | 209 | * | Filler |
| (F8) | CHARACTER | | SITGMTXE | Message end |

INITPARM chain structure

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | * | SITINIT | |
| (0) | ADDRESS | 4 | INITCPTR | PTR to next entry on chain |
| (4) | CHARACTER | 8 | INITPGMID | The INIT program ID name |
| (C) | UNSIGNED | 1 | INITPSLEN | The INIT Parm String length |
| (D) | CHARACTER | * | INITPSTRG | The INIT Parm String |

PRVMOD list

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-----------------------|
| (0) | STRUCTURE | * | DFHPRVMOD | |
| (0) | FULLWORD | 4 | SITPRVML | List length |
| (4) | FULLWORD | 4 | SITPRVMN | Number of modules |
| (8) | CHARACTER | * | SITPRVMNAME | Module names are here |

Start-up indicators in SITICPOP, SITSPOP and SITBMSOP

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-----------------|
| (0) | STRUCTURE | 1 | SITSTOPT | |
| | 1... | | WARMST | Warm start |
| | .1.. | | COLDST | Cold start |
| | ..1. | | * | |
| | ...1 | | COLDEX | Cold execution |
| | 1... | | * | |
| |1.. | | EMEREX | Emergency start |
| |11 | | * | |

Constants

| Len | Type | Value | Name | Description |
|---|-----------|-------|-----------|------------------------|
| 1 | CHARACTER | B | SITTCUAB | Below |
| 1 | CHARACTER | A | SITTCUAA | Any |
| Operating System Constants. SITOPSYS | | | | |
| 1 | CHARACTER | X | SITMVX | MVS/XA |
| Release Level Constants. SITOPREL The list of constants below is not exhaustive. Other possible values for OPREL are similarly constructed from the official product name of the control program. | | | | |
| 1 | HEX | 11 | SITE11 | DOS/VSE release 1.1 |
| 1 | HEX | 12 | SITE12 | DOS/VSE release 1.2 |
| 1 | HEX | 13 | SITE13 | DOS/VSE release 1.3 |
| 1 | HEX | 37 | SITM37 | OS/MVS release 3.7 |
| 1 | HEX | 38 | SITM38 | OS/MVS release 3.8 |
| 1 | HEX | 17 | SITX17 | MVS/XA release 2.1.7 |
| 1 | HEX | 20 | SITX20 | MVS/XA release 2.2.0 |
| 1 | HEX | 21 | SITX21 | MVS/XA release 2.2.1 |
| 1 | HEX | 10 | SITE10 | MVS/ESA release 3.1.0 |
| 1 | HEX | 22 | SITE22 | MVS/ESA release 4.2.2 |
| CICS System Constants. SITCICS | | | | |
| 1 | CHARACTER | E | SITELS | Reserved |
| 1 | CHARACTER | F | SITFULL | Full CICS |
| CICS Release Constants. SITCIREL | | | | |
| 1 | HEX | 14 | SITC14 | Vers.1, release 4 |
| 1 | HEX | 15 | SITC15 | Vers.1, release 5 |
| 1 | HEX | 16 | SITC16 | Vers.1, release 6 |
| 1 | HEX | 17 | SITC17 | Vers.1, release 7 |
| 1 | HEX | 21 | SITC21 | Vers.2, release 1 |
| 1 | HEX | 31 | SITC31 | Vers.3, release 1 |
| 1 | HEX | 32 | SITC32 | Vers.3, release 2 |
| 1 | HEX | 33 | SITC33 | Vers.3, release 3 |
| 1 | HEX | 41 | SITC41 | Vers.4, release 1 |
| 1 | HEX | 51 | SITC51 | Vers.5, release 1 |
| 1 | HEX | 52 | SITC52 | Vers.5, release 2 |
| 1 | HEX | 53 | SITC53 | Vers.5, release 3 |
| CICS Modification Level constants. SITCIMOD | | | | |
| 1 | HEX | 00 | SITMOD00 | Mod level 0 |
| 1 | HEX | 01 | SITMOD01 | Mod level 1 |
| 1 | HEX | 02 | SITMOD02 | Mod level 2 |
| 1 | HEX | 03 | SITMOD03 | Mod level 3 |
| Spooler Control Constants. SITPSOPT | | | | |
| 1 | HEX | 80 | YSPOOL | Spooling = yes |
| 1 | HEX | 00 | NSPOOL | Spooling = no |
| XRF Function and Sign on state Constants. SITXRFFN and SITXRSNS | | | | |
| 1 | CHARACTER | Y | SITXRFY | XRF Function enabled |
| 1 | CHARACTER | N | SITXRFN | XRF Function Disabled |
| 1 | CHARACTER | N | SITXRNO | Not signed on |
| 1 | CHARACTER | A | SITXRACT | Signed on as active |
| 1 | CHARACTER | B | SITXRALT | Signed on as alternate |
| XRF Takeover Constants. SITTAKE | | | | |
| 1 | CHARACTER | A | SITTAKEA | Auto takeover |
| 1 | CHARACTER | C | SITTAKEC | Command takeover |
| 1 | CHARACTER | M | SITTAKEM | Manual takeover |
| CSD Constants for SITCSDRC, SITCSDAC and SITCSDIS | | | | |
| 1 | HEX | 80 | SITCSRCA | All |
| 1 | HEX | 40 | SITCSR CN | None |
| 1 | HEX | 20 | SITCSR CB | Backout only |
| 1 | HEX | 00 | SITCSSHA | Static |
| 1 | HEX | 80 | SITCSFUZ | Dynamic |
| 1 | HEX | 80 | SITCSDRO | Read only |
| 1 | HEX | 40 | SITCSDRW | Read Write |
| 1 | HEX | 80 | SITCSDSH | Shr |
| 1 | HEX | 40 | SITCSDOL | Old |
| Front-End Programming Interface Constants for SITFEPOP | | | | |
| 1 | CHARACTER | Y | SITFEPIN | FEPI required |
| 1 | CHARACTER | N | SITFEPOU | FEPI absent |
| Constants for SITSINIT (START=INITIAL). SITSINIT qualifies a SITSTART='I' denoting whether its a cold start or an initial start. | | | | |
| 1 | CHARACTER | Y | SITSINIY | Start=initial |
| 1 | CHARACTER | N | SITSININ | Not start=initial |
| DBCTL connect required constants for SITDBCOP | | | | |

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|-------------------------|
| 1 | CHARACTER | Y | SITDBCTY | required |
| 1 | CHARACTER | N | SITDBCTN | not required |
| DB2 connect required constants for SITDB2OP | | | | |
| 1 | CHARACTER | Y | SITDB2Y | required |
| 1 | CHARACTER | N | SITDB2N | not required |
| MQ connect required constants for SITMQOP | | | | |
| 1 | CHARACTER | Y | SITMQY | required |
| 1 | CHARACTER | N | SITMQN | not required |
| SECURITY CONSTANTS FOR SITSSCOPE | | | | |
| 1 | DECIMAL | 1 | SITSNS_N | SIGNON SCOPE=NONE |
| 1 | DECIMAL | 2 | SITSNS_C | SIGNON SCOPE=CICS |
| 1 | DECIMAL | 3 | SITSNS_M | SIGNON SCOPE=MVSIMAGE * |
| 1 | DECIMAL | 4 | SITSNS_S | SIGNON SCOPE=SYSPLEX |
| PROGRAM MANAGER CONSTANTS | | | | |
| 1 | CHARACTER | I | SITAPGMI | INACTIVE |
| 1 | CHARACTER | A | SITAPGMA | ACTIVE |
| 1 | CHARACTER | M | SITACTGM | MODIFY |
| 1 | CHARACTER | N | SITACTGN | NONE |
| 1 | CHARACTER | A | SITACTGA | ALL |

SKA Skp subtask control area

CONTROL BLOCK NAME = DFHSKAPS
 DESCRIPTIVE NAME = CICS (SKP) Subtask Control Area.
 FUNCTION =
 Describe 'per-subtask' storage definition.
 DFHSKAPS belong to the General Purpose Subtasking facility of CICS.
 Each instance of this control block describes the state of one subtask.
 LIFETIME =
 That of CICS static storage.
 STORAGE CLASS = CICS static storage.
 LOCATION =
 Located in the static storage for module DFHSKP.
 INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.
 SUBTASK CONTROL AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | 176 | DFHSKAPS | Subtask control area |
| SKASKENA contains the entry point of DFHSKE - the subtask executor. This field must remain at the start of DFHSKAPS. It is set by SKC and referenced by SIP on MVS, and by SKC on DOS. | | | | |
| (0) | ADDRESS | 4 | SKASKENA | DFHSKENA entry point |
| SKASTGP contains the address of automatic storage to be used by SKE. | | | | |
| (4) | ADDRESS | 4 | SKASTGP | add of subtask auto storage |
| SKAQUES contain the WQE queues for the subtask. SKAWORKQ contains WQEs as yet unprocessed by the subtask. SKAPROGQ contains WQEs currently being processed. SKAWAITQ contains WQEs that have issued a DFHSK CTYPE= WAIT macro. | | | | |
| (8) | CHARACTER | 12 | SKAQUES | WQE queues for subtask |
| (8) | ADDRESS | 4 | SKAWORKQ | work |
| (C) | ADDRESS | 4 | SKAPROGQ | in_progress |
| (10) | ADDRESS | 4 | SKAWAITQ | waiting |
| SKAINWQE contains the address of the WQE currently being processed by SKE. | | | | |
| (14) | ADDRESS | 4 | SKAINWQE | WQE being processed |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| | | | | SKAEWRK is the work ECB for the subtask. It is posted by SKM when it adds a WQE onto the work queue. When SKE has no work to do, it waits on this ECB. |
| (18) | UNSIGNED | 4 | SKAEWRK | work ECB for subtask |
| | | | | SKASCOMP is the subtask completion ECB. It is waited on by SKC, and is posted by the operating system when the subtask terminates. |
| (1C) | CHARACTER | 4 | SKASCOMP | subtask completion ECB |
| | | | | SKADTECB is posted by SKC when either it DETACHes the subtask(MVS) or the subtask DETACHes itself(DOS). SKM, processing a DFHSK CTYPE=TERMINATE waits for subtasks to go away, before allowing DFHSTP to continue. |
| (20) | UNSIGNED | 4 | SKADTECB | MVS DETACH issued for subtask |
| | | | | SKAINECB is an ECB that is posted by the subtask to indicate it has been attached. SKC waits for this to be posted before assuming the subtask is running. |
| (24) | UNSIGNED | 4 | SKAINECB | ECB for sub initialisation |
| | | | | SKASRETC contains the completion code of the subtask and is used to indicate to SKC the type of completion. |
| (28) | UNSIGNED | 1 | SKASRETC | subtask completion code |
| | | | | SKAESFCD contains the completion code of an ESTAE or STXIT AB macro if not zero. SKC examines this field and outputs it in a message if the exit macro failed in the subtask. |
| (29) | UNSIGNED | 1 | SKAESFCD | ESTAE/STXIT failure code |
| | | | | SKAFAILS is a count of failures that occur when SKE code is executing (not SK exit code). It is set and referenced by SKE. |
| (2A) | HALFWORD | 2 | SKAFAIL | count of our code failures |
| | | | | SKAFLAG1 IS A FLAG BYTE. UPDATED BY DFHSC ONLY |
| (2C) | BITSTRING | 1 | SKAFLAG1 | flags - TRUE means.. |
| | | | | SKAFLAG1 HAS BEEN SPLIT OVER FLAG1,2 AND 3 TO OVERCOME MULTIPLE PROCESSORS UPDATING SHARED STORAGE CONCURRENTLY. Following 5 flags are spare. |
| | | | 1... * | moved to FLAG2 |
| | | | .1.. * | moved to FLAG2 |
| | | | ..1. * | moved to FLAG2 |
| | | | ...1 * | moved to FLAG3 |
| | | | 1... | reserved |
| | | | | SKASINIT indicates that this subtask has been initialised and is running. |
| | | |1.. SKASINIT | subtask is initialised |
| | | | | Following flag is spare. |
| | | |1. * | moved to FLAG2 |
| | | | | SKASDEAD indicates the subtask has encountered an error preventing further execution. It is set by SKC and referenced by SKM. |
| | | |1 SKASDEAD | subtask is dead |
| | | | | SKAFLAG2 IS A FLAG BYTE UPDATED BY DFHSKE ONLY |
| (2D) | BITSTRING | 1 | SKAFLAG2 | FLAGS - TRUE MEANS.. |
| | | | | SKARGPSW indicates the presence of the regs and PSW at the time of failure in DFHSKAPS. It is set by the SKE exit code, and tested thereafter in SKE mainline code. |
| | | | 1... SKARGPSW | regs&psw are in SKA |
| | | | | SKAABCP indicates the presence of the operating system abend code in DFHSKAPS. |
| | | | .1.. SKAABCP | abend code is in SKA |
| | | | | SKARUNNG is set by SKE on entry, and turned off on exit from SKE. SKC references this field to see if the subtask was running when it terminated. |
| | | | ..1. SKARUNNG | subtask running |
| | | | | Following 3 flags are spare. |
| | | | ...1 11.. * | spare flags |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|-----------------------------|
| SKAUSCOD indicates this subtask is currently executing an SK exit routine. | | | | |
|1. | | | SKAUSCOD | user code in progress |
| Following flag is spare. | | | | |
|1 | | | * | spare flag |
| SKAFLAG3 IS A FLAG BYTE UPDATED BY DFHSKM ONLY | | | | |
| (2E) | BITSTRING | 1 | SKAFLAG3 | FLAGS - TRUE MEANS.. |
| Following 3 flags are spare. | | | | |
| 111. | | | * | spare flags |
| SKAQUIES is set by SKM to indicate that the subtask should terminate processing. | | | | |
| ...1 | | | SKAQUIES | quiesce requested |
| Following 4 flags are spare. | | | | |
| 1111 | | | * | spare flags |
| SKAMWLST is a list of pointers used for an operating system multiple wait. It is used by DFHSKE. On MVS the list is terminated by the top bit in the last ECB ptr being on, and on DOS the byte after the last ECB ptr is non-zero ('FF'X). | | | | |
| (30) | ADDRESS | 4 | SKAMWLST (6) | multiple WAIT list |
| (30) | CHARACTER | 1 | SKAMFB | first byte of each address |
| 1... | | | SKAMEOL | first bit thereof |
| SKASAV13 is set by SKE on entry to point to the MVS save area. | | | | |
| (48) | UNSIGNED | 4 | SKASAV13 | ADDR(MVS save area) |
| SKAPICA is an MVS Program Interrupt Control Area used by SKE. | | | | |
| (4C) | UNSIGNED | 4 | SKAPICA (4) | subtask MVS PICA (ESPIE) |
| SKAABC contains the operating system abend code, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |
| (5C) | CHARACTER | 4 | SKAABC | operating system abend code |
| SKAPSAV contains the registers at time of failure, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |
| (60) | CHARACTER | 64 | SKAPSAV | program check save area |
| (60) | FULLWORD | 4 | * (16) | registers |
| SKAPSW contains the PSW at time of failure, and is used by SKE. An existence bit is in SKAFLAG1. | | | | |
| (A0) | CHARACTER | 8 | SKAPSW | EC mode program check PSW |
| SKAINT contains extran interrupt information, and is used by SKE. | | | | |
| (A8) | CHARACTER | 8 | SKAINT | interrupt information |
| (A8) | HALFWORD | 2 | SKAINTL | instruction length |
| (AA) | HALFWORD | 2 | SKAINTC | instruction code |
| (B0) | CHARACTER | | SKAEND | end of DFHSKAPS |

SKRQ Subtask management parameter block

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|-------------|
| (0) | | | DFHSKRQ | , |

FUNCTION =
 The Subtask Management Parameter Block (SKRQ) is the parameter list for the subtask management module.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|--------------|-----|------------|-----------------------------------|
| (0) | BITSTRING | 1 | SKRQTR | V*1 FUNCTION REQUEST BYTE |
| REQUEST TYPE VALUES | | | | |
| |1 | | SKRQPER | "X'01" PERFORM |
| |1. | | SKRQWAIT | "X'02" WAIT |
| |11 | | SKRQRET | "X'03" RETURN |
| |1.. | | SKRQTER | "X'04" TERMINATE |
| |1.1 | | SKRQDWE | "X'05" DWE TO BE PROCESSED |
| (1) | BITSTRING | 1 | SKRQRM | V*2 REQUEST MODIFIER |
| BITS DEFINED FOR REQUEST MODIFIER | | | | |
| |1 | | SKRQAY | "X'01" AUTH=YES SPECIFIED |
| |1. | | SKRQCI | "X'02" CLASS=I/O SPECIFIED |
| |1.. | | SKRQSS | "X'04" SAVAREA SPECIFIED |
| | 1... | | SKRQSY | "X'08" SYNC=YES SPECIFIED |
| (2) | BITSTRING | 1 | | V*3 RESERVED |
| (3) | BITSTRING | 1 | SKRQRC | V*4 RESPONSE CODE |
| RESPONSE CODE VALUES | | | | |
|  | .... .... |  | SKRQNORM | "0" NORMAL RESPONSE |
| |1. | | SKRQUCF | "4" USER CODE FAILED |
| | 1... | | SKRQSCF | "8" SUBTASK CODE FAILED |
| | 11.. | | SKRQUPR | "12" UNABLE TO PERFORM REQUEST |
| | 1... .. | | SKRQRNC | "16" REQUEST NEVER COMPLETED |
| | 1.. .. | | SKRQINV | "20" INVALID REQUEST |
| | 1... .. | | SKRQIES | "24" INVALID ECB ADDRESS SUPPLIED |
| | 11.. .. | | SKRQTWC | "28" USER TASK WAS CANCELLED |
| SUBTASK IDENTIFIERS | | | | |
| |1 | | SKSUBXX1 | "1" GENERAL SUBTASK/FALLBACK |
| |1. | | SKSUBFS1 | "2" FILE CONTROL/SECURITY SUBTASK |
| |11 | | SKSUBSP1 | "3" SPOOLER SUBTASK NUMBER 1 |
| |1.. | | SKSUBSP2 | "4" SPOOLER SUBTASK NUMBER 2 |
| (4) | ADDRESS | 4 | SKRQRTN | ADDRESS OF ROUTINE TO EXECUTE |
| (8) | FULLWORD | 4 | SKRQPARM | ADDRESS OF PARM FIELD |
| (C) | ADDRESS | 4 | SKRQECBA | ADDRESS OF ECB |
| (10) | ADDRESS | 4 | SKRQTACB | ADDRESS OF TACB SLOT |
| (14) | ADDRESS | 4 | SKRQSUBI | ADDRESS OF SUBTASK ID FIELD |
| (18) | ADDRESS | 4 | SKRQPRTY | ADDRESS OF PRIORITY HALFWORD |
| | 11.. .. | | SKRQSIZE | "-DFHSKRQ" SIZE IN BYTES |

SKW Skp work queue element

CONTROL BLOCK NAME = DFHSKWPS
 DESCRIPTIVE NAME = CICS (SKP) Work Queue Element (WQE)
 FUNCTION = PLS structure describing WQE.
 This structure is used by the CICS General Purpose Subtasking mechanism.
 Each instance of this control block represents a piece of work to be performed (usually by a subtask).
 One instance of the WQE is created per DFHSK PERFORM macro invocation.
 LIFETIME = Space for WQEs is allocated in DFHSKP static storage.
 Further WQEs as necessary are obtained during CICS execution
 The WQEs are freed at CICS termination.
 STORAGE CLASS =
 Static initially, and subsequent WQEs are obtained in SHARED storage.
 LOCATION =
 WQEs reside on queues controlled by the Subtask Manager(SKM) and the subtask executor(SKE). The queues are anchored from static storage (nb CICS STATIC STORAGE) belonging to SKP.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.
 WORK QUEUE ELEMENT

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 100 | DFHSKWPS | Work Queue Element (WQE) |
| SKWCHAIN - contains the address of the next WQE in chain | | | | |
| (0) | ADDRESS | 4 | SKWCHAIN | chain to next WQE |
| SKWUPARM - contains the contents of the PARM field specified in the DFHSK CTYPE=PERFORM macro. | | | | |
| (4) | ADDRESS | 4 | SKWUPARM | PARM specified on SK wait |
| SKWUCADD - contains the address of SK EXIT routine - the label specified in the ROUTINE keyword on the SK CTYPE=PERFORM macro. | | | | |
| (8) | ADDRESS | 4 | SKWUCADD | user code address to execute |
| SKWSREGS - used by to save the registers before branching to the SK EXIT routine by SKM (synchronous) and SKE (asynchronous) | | | | |
| (C) | CHARACTER | 64 | SKWSREGS | SKM/SKE register save area |
| SKWCECB - this is the ECB used to communicate between SKM and SKE. SKM waits on it when the WQE has been put onto a subtask work queue. SKE posts it when the WQE has been processed. | | | | |
| (4C) | UNSIGNED | 4 | SKWCECB | CICS work complete ECB |
| SKWOECB - this contains the address of the ECB specified on the SK CTYPE=WAIT macro issued by the SK EXIT routine. | | | | |
| (50) | ADDRESS | 4 | SKWOECBA | ptr to ECB for SK WAIT |
| SKWOABC - contains the operating system abend code when the abend exit was entered in SKE. | | | | |
| (54) | UNSIGNED | 4 | SKWOABC | operating system abend code |
| SKWOABSP - contains the address of a piece of operating system storage obtained by SKE to hold info about a program check or abend. Its contents are copied to a TACB by SKM. | | | | |
| (58) | ADDRESS | 4 | SKWOABSP | ptr to os abend storage |
| SKWESAVE - contains the address of the save area specified by the SK EXIT routine when it issued an SK CTYPE=WAIT macro. | | | | |
| (5C) | ADDRESS | 4 | SKWESAVE | A(save area for sk exit regs) |
| SKWFLAGS - flag byte | | | | |
| (60) | BITSTRING | 1 | SKWFLAGS | flags - TRUE means.. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| | | | | SKWTCANC - set by SKM when the CICS task it is running on behalf of has been purged. SKE ceases to process the WQE when it notices this set. |
| 1... .. | | | SKWTCANC | CICS task has been cancelled |
| | | | | SKWFABST - set by SKM to indicate that the storage containing regs and PSW at time of failure can be freed by SKE when it next sees the WQE |
| .1... .. | | | SKWFABST | os abend stg requires freeing |
| | | | | SKWWAIT - set by SKE to indicate this the SK EXIT has requested SKE waits on an ECB. |
| ..1. | | | SKWWAIT | WQE is on WAIT queue |
| | | | | SKWTACBE - indicates presence of operating storage containing regs and PSW at time of error. |
| ...1 | | | SKWTACBE | TACB is chained (in os stg) |
| | | | | SKWRC - return code from execution of WQE by SKE to SKM |
| (61) | UNSIGNED | 1 | SKWRC | return code |
| (62) | CHARACTER | 2 | * | fullword alignment |

SLDC System logical device code table

CONTROL BLOCK NAME = DFHSLDC
 DESCRIPTIVE NAME = CICS System Logical Device Code Table.
 FUNCTION =
 The Logical Device Code (LDC) structure is the mechanism used by CICS to identify the output message destination in an SNA environment. The SLDC table is generated by the DFHTCT TYPE=LDC macro instruction. It contains an entry for each LDC mnemonic used by the system. The logical page size, page disposition and terminal type are used by BMS to control the format of the output message.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|---|
| (0) | | | DFHSLDC | |
| (0) | CHARACTER | 2 | SLDCMN | LDC MNEMONIC |
| (2) | BITSTRING | 1 | SLDCCD | LOGICAL DEVICE CODE |
| (3) | BITSTRING | 1 | SLDCTM | TERMINAL MODEL (MEDIA)... .. (INCLUDING SUBADDRESS) |
| 3601 | | | | |
| ... | ... | | SLD3604 | "X'11" KEYBOARD DISPLAY |
| ... | .111 | | SLD3610 | "X'17" DOCUMENT PRINTER |
| ... | 1..1 | | SLD3612 | "X'19" PASSBOOK & DOCUMENT PRINTER |
| ..1. | .... |  | SLD3618 | "X'20" ADMINISTRATIVE LINE PRINTER |
| ..1. | ...1 | | SLD3618P | "X'21" LINE PRINTER PRIMARY CARRIAGE |
| ..1. | ..1. | | SLD3618S | "X'22" LINE PRINTER SECONDARY CARRIAGE |
| ..1. | ..11 | | SLD3618B | "X'23" LINE PRINTER BOTH CARRIAGES |
| .... | .... |  | SLDCBLCO | "X'00" CONSOLE (DEFAULT IF NO LDC) |
| ...1 | .... |  | SLDCBLD1 | "X'10" DISK 1 |
| ...1 | ...1 | | SLDCBLD2 | "X'11" DISK 2 |
| ..1. | .... |  | SLDCBLR1 | "X'20" READER (INPUT ONLY) |
| ..1. | .... |  | SLDCBLH1 | "X'20" PUNCH (OUTPUT ONLY) |
| ..11 | .... |  | SLDCBLP1 | "X'30" PRINTER (OUTPUT ONLY) |
| 1.. | .... |  | SLDCWPM1 | "X'80" WORD PROCESSING MEDIUM 1 |
| 1..1 | .... |  | SLDCWPM2 | "X'90" WORD PROCESSING MEDIUM 2 |
| 1..1 | .... |  | SLDCWPM3 | "X'A0" WORD PROCESSING MEDIUM 3 |
| 11.. | .... |  | SLDCWPM4 | "X'C0" WORD PROCESSING MEDIUM 4 |
| (4) | ADDRESS | 1 | SLDCROW | NUMBER OF DISPLAY ROWS |
| (5) | ADDRESS | 1 | SLDCCLM | NUMBER OF DISPLAY COLUMNS |
| (6) | BITSTRING | 1 | SLDCSTAT | LDC STATUS BYTE |
| 1... .. | .... |  | SLDCSPGP | "X'80" PAGE STATUS |
| (7) | CHARACTER | 8 | SLDCDSN | DESTINATION NAME |
| (F) | BITSTRING | 1 | SLDCDSP | DATA STREAM PROFILE BITS 4 TO 7 |
| .... | .... |  | SLDCPDEF | "X'00" DEFAULT PROFILE |
| .... | ...1 | | SLDCPBS | "X'01" BASE PROFILE |
| .... | ..11 | | SLDCPJOB | "X'03" JOB PROFILE |
| .... | ..1. | | SLDCPRAW | "X'04" WP RAW PROFILE |
| .... | ..11 | | SLDCPOI1 | "X'06" OII LEVEL 1 |
| .... | ..111 | | SLDCPOI2 | "X'07" OII LEVEL 2 |
| .... | 1.. | | SLDCPOI3 | "X'08" OII LEVEL 3 |
| Other values are reserved | | | | |
| ...1 | .... |  | SLDCEND | *** END OF SYSTEM LDC ENTRY |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| | ...1 | | SLDCLN | **-DFHSLDC" LENGTH OF SYSTEM LDC ENTRY |

SMD Domain subpool storage statistics

CONTROL BLOCK NAME = DFHSMDDS
 DESCRIPTIVE NAME = CICS Storage statistics for domain subpools.
 FUNCTION = This DSECT describes the Domain subpool statistics provided by the storage manager.
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
 An instance of this data area may represent the statistics for any one of the domain subpools.
 There is a single instance of this data block.
 LIFETIME = This data block is created by the storage manager to hold domain subpool statistics. It is released when the request for statistics has been satisfied.
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS From storage manager domain.
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-----------|-----|-------------|----------------------------------|
| (0) | | | DFHSMDDS | Domain subpool statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | SMDLEN | Length of data area |
| |1.1 | | SMDIDE | "5" Domain subpool id mask |
| (2) | ADDRESS | 2 | SMDID | Domain subpool stats id |
| |1 | | SMDVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | SMDDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SMDSPN | Subpool name |
| (10) | CHARACTER | 8 | SMDDSANAME | DSA name |
| (18) | BITSTRING | 1 | SMDETYPE | Element type (fixed/variable?) |
| (19) | CHARACTER | 3 | | Reserved |
| (1C) | FULLWORD | 4 | SMDFLEN | Length (if fixed) |
| (20) | BITSTRING | 1 | SMDLCHN | Element chaining (yes/no?) |
| (21) | CHARACTER | 3 | | Reserved |
| (24) | FULLWORD | 4 | SMDBNDRY | Boundary |
| (28) | BITSTRING | 1 | SMDLOCN | Above/below 16 meg line |
| (29) | BITSTRING | 1 | SMDACCESS | Access |
| (2A) | BITSTRING | 1 | SMDDSAINDEX | DSA index |
| (2B) | CHARACTER | 1 | | Reserved |
| (2C) | FULLWORD | 4 | SMDIFREE | Initial free value |
| (30) | FULLWORD | 4 | SMDGMREQ | Number of Getmain reqs |
| (34) | FULLWORD | 4 | SMDFMREQ | Number of Freemain reqs |
| (38) | FULLWORD | 4 | SMDCES | Sum of all element lengths |
| (3C) | FULLWORD | 4 | SMDCPS | Current page storage |
| (40) | FULLWORD | 4 | SMDCELEM | Current number of elements |
| (44) | FULLWORD | 4 | SMDHWMP | High Water Mark Page Storage |
| | .1.. 1... | | SMDEND | **" |
| | .1.. 1... | | SMDCLN | **SMDLEN" Length of DSECT |
| Equates for testing SMDLOCN. | | | | |
| |1 | | SMDBELOW | "1" |
| |1. | | SMDABOVE | "2" |
| Equates for testing SMDACCESS. | | | | |
| |1 | | SMDCICS | "1" |
| |1. | | SMDUSER | "2" |
| |11 | | SMDREADONLY | "3" |
| Equates for testing SMDDSAINDEX. | | | | |
| |1 | | SMDCDSA | "1" |
| |11 | | SMDSDSA | "3" |
| |1.. | | SMDRDSA | "4" |
| |1.1 | | SMDCEDSA | "5" |
| |111 | | SMDSEDSA | "7" |
| | 1... | | SMDERDSA | "8" |

SMF SMF header and SMF product section

CONTROL BLOCK NAME = DFHSMFDS
 DESCRIPTIVE NAME = CICS SMF Header and SMF Product Section
 DSECT for the SMF 110 records written by Journaling,
 Monitoring, and Statistics.
 FUNCTION =
 This DSECT describes the various formats of the SMF Header
 and SMF Product Section for the SMF 110 records written
 by CICS to SMF. These SMF records are created by Journaling,
 Monitoring, and Statistics and read by the CICS monitoring
 DFHSTUP.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None
 time & user ID in SMF

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | | | DFHSMFDS | |
| (0) | BITSTRING | 2 | SMFLEN | Record length |
| (2) | BITSTRING | 2 | SMFSEG | Segment descriptor |
| (4) | BITSTRING | 1 | SMFFLG | Operating system indicator |
| | 11.. | | SMFESA | "X'C0" MVS/ESA fixed indicators |
| (5) | BITSTRING | 1 | SMFRTY | Record type 110 for CICS |
| (6) | BITSTRING | 4 | SMFTIME | Time record moved |
| (A) | BITSTRING | 4 | SMFDTE | Date record moved (0CYDDDD+) |
| (E) | BITSTRING | 4 | SMFSID | System identification |
| (12) | CHARACTER | 4 | SMFSSI | Sub-system identification |
| (16) | BITSTRING | 2 | SMFSTY | Record subtype |
|  | .... .... |  | SMFJCSTY | "X'0000" - 'X'0000' For journaling |
| |1 | | SMFMNSTY | "X'0001" - 'X'0001' For monitoring |
| |1. | | SMFSTSTY | "X'0002" - 'X'0002' For statistics |
| |11 | | SMFXQSTY | "X'0003" - 'X'0003' For TS datasharing |
| |1.. | | SMFCFSTY | "X'0004" - 'X'0004' For CFDT server stats |
| |1.1 | | SMFNCSTY | "X'0005" - 'X'0005' For named ctr server |
| (18) | BITSTRING | 2 | SMFTRN | Number of triplets in record |
| (1A) | BITSTRING | 2 | | Reserved |
| (1C) | BITSTRING | 4 | SMFAPS | Offset to CICS product section |
| (20) | BITSTRING | 2 | SMFLPS | Length of CICS product section |
| (22) | BITSTRING | 2 | SMFNPS | Number of CICS product sections |
| (24) | BITSTRING | 4 | SMFASS | Offset to CICS data section |
| (28) | BITSTRING | 2 | SMFASL | Length of CICS data section |
| (2A) | BITSTRING | 2 | SMFASN | Number of CICS data sections |
| End of SMF-Header. Start of JC SMF Product-section. | | | | |
| (2C) | BITSTRING | 2 | SMFPSRVN | Record version format x'0vrn' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFPSPRN | Product name (Generic APPLID) |
| (36) | CHARACTER | 8 | SMFSSPN | Specific APPLID |
| (3E) | BITSTRING | 2 | SMFPSMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| The JC SMF Product-section fields SMFPSRSN, SMFPSJID, SMFPSBKN, SMFPSLBW and SMFPSBAL apply to CICS/ESA Version 4.1 and previous CICS/ESA Version 3.x releases. The JC SMF Product-section field SMFPSJNM is applicable from CICS/ESA Version 5.1. | | | | |
| (42) | | 4 | SMFPSRSN | Record-number within Journal |
| (46) | BITSTRING | 1 | SMFPSJID | Journal identifier |
| (47) | | 3 | SMFPSBKN | Record-number within Data Set |
| (4A) | BITSTRING | 4 | SMFPSLBW | Last-record address (Format is TTR0 under MVS) |
| (4E) | ADDRESS | 2 | SMFPSBAL | Track balance in BYTES |
| (50) | BITSTRING | 38 | | Reserved |
| (76) | CHARACTER | 8 | SMFPSJNM | Journal Name |
| (7E) | CHARACTER | 8 | SMFPSJBN | Jobname |
| (86) | BITSTRING | 4 | SMFPSRSD | Job date |
| (8A) | BITSTRING | 4 | SMFPSRST | Job time |
| (8E) | CHARACTER | 8 | SMFPSUIF | User identification |
| (96) | CHARACTER | 8 | SMFSPDN | Operating system product level |
| | 1..1 111. | | SMFJCIDA | *** |
| End of JC SMF Product-section. Start of MN SMF Product-section. | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (2C) | BITSTRING | 2 | SMFMNRVN | Record version format x'0vrm' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFMNPRN | Product name (Generic APPLID) |
| (36) | CHARACTER | 8 | SMFMNSPN | Specific APPLID |
| (3E) | BITSTRING | 2 | SMFMNMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| (42) | BITSTRING | 2 | SMFMNCL | Class of data |
| (44) | BITSTRING | 4 | SMFMNDCA | Offset to CICS field connectors |
| (48) | BITSTRING | 2 | SMFMNDCL | Length of each CICS field connector |
| (4A) | BITSTRING | 2 | SMFMNDCN | Number of CICS field connectors |
| (4C) | BITSTRING | 4 | SMFMNDRA | Offset to first CICS Data record |
| (50) | BITSTRING | 2 | SMFMNDRL | Length of each CICS Data record |
| (52) | BITSTRING | 2 | SMFMNDRN | Number of CICS Data records |
| (54) | BITSTRING | 20 | | Reserved |
| (68) | BITSTRING | 4 | SMFMNTAD | Local TOD clock adjustment |
| (6C) | BITSTRING | 8 | SMFMNLSO | Leap Second Offset TOD format |
| (74) | BITSTRING | 8 | SMFMNDTO | Local Time/Date Offset |
| (7C) | BITSTRING | 2 | | Reserved |
| (7E) | CHARACTER | 8 | SMFMNJBN | Jobname |
| (86) | BITSTRING | 4 | SMFMNRSD | Job date |
| (8A) | BITSTRING | 4 | SMFMNRST | Job time |
| (8E) | CHARACTER | 8 | SMFMNUIF | User identification |
| (96) | CHARACTER | 8 | SMFMNPDN | Operating system product level |
| | 1..1 111. | | SMFMNIDA | *** |
| End of MN SMF Product-section. | | | | |
| Start of ST SMF Product-section. | | | | |
| Statistics produced by the TS datasharing server (XQ), | | | | |
| CFDT server (CF) and named counter server (NC) use the | | | | |
| same layout, but the server type (DFHXQ, DFHCF or DFHNC) | | | | |
| and pool name are stored instead of the APPLIDs. | | | | |
| (2C) | BITSTRING | 2 | SMFSTRVN | Record version format x'0vrm' v = version r = release m = modification |
| (2E) | CHARACTER | 8 | SMFSTPRN | Product name (Generic APPLID) |
| (36) | CHARACTER | 8 | SMFSTSPN | Specific APPLID |
| (3E) | BITSTRING | 2 | SMFSTMFL | Record maintenance indicator |
| (40) | BITSTRING | 2 | | Reserved |
| (42) | BITSTRING | 2 | | Reserved |
| (44) | BITSTRING | 4 | SMFSTDTK | Domain token |
| (48) | CHARACTER | 2 | SMFSTDID | Domain ID |
| (4A) | CHARACTER | 3 | SMFSTRQT | USS/EOD/REQ/INT/RRT Stats type |
| (4D) | CHARACTER | 3 | SMFSTICD | YES if incomplete data recorded |
| (50) | CHARACTER | 8 | SMFSTDAT | Collection date MMDDYYYY |
| (58) | CHARACTER | 6 | SMFSTCLT | Collection time HHMMSS |
| (5E) | CHARACTER | 6 | SMFSTINT | Interval HHMMSS |
| (64) | BITSTRING | 4 | SMFSTINO | Interval NUMBER |
| (68) | BITSTRING | 8 | SMFSTRTK | Request token |
| (70) | CHARACTER | 6 | SMFSTLRT | Last reset time HHMMSS |
| (76) | BITSTRING | 8 | SMFSTCST | CICS start time STCK |
| (7E) | CHARACTER | 8 | SMFSTJBN | Jobname |
| (86) | BITSTRING | 4 | SMFSTRSD | Job date |
| (8A) | BITSTRING | 4 | SMFSTRST | Job time |
| (8E) | CHARACTER | 8 | SMFSTUIF | User identification |
| (96) | CHARACTER | 8 | SMFSTPDN | Operating system product level |
| | 1..1 111. | | SMFSTIDA | *** |
| End of ST SMF Product-section. | | | | |

SMS Pagepool storage statistics

CONTROL BLOCK NAME = DFHMSDS
 DESCRIPTIVE NAME = CICS Storage statistics for Pagepools and subspaces.
 FUNCTION = This DSECT describes the DSA statistics, Storage Manager state data and the subspace statistics provided by the Storage Manager.
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
 An instance of this data area may represent the statistics for any of the DSAs.
 LIFETIME = This data block is created by the storage manager to hold pagepool statistics, state data and the subspace statistics. It is released when the request for statistics has been satisfied.
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS From storage manager domain.
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------|-------------|------------|-------------------|--|
| (0) | | | DFHMSDS | Storage statistics header |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | SMSLEN | Length of data area |
| |1. | | SMSIDE | "2" DSA storage stats id mask |
| (2) | ADDRESS | 2 | SMSID | DSA storage stats id |
| |1 | | SMSVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | SMSDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| | 1... | | SMSHEND | "" End of Header |
| | 1... | | SMSHLEN | ""-SMSLEN" Length of Header |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | SMSGLOBAL | |
| (0) | HALFWORD | 2 | SMSNPAGP | Number of Pagepools |
| (2) | BITSTRING | 1 | SMSSTGPROT | State of STGPROT |
| (3) | BITSTRING | 1 | SMSRENTPGM | State of RENTPGM |
| (4) | BITSTRING | 1 | SMSTRANISO | State of TRANISO |
| (5) | BITSTRING | 3 | | Reserved |
| (8) | FULLWORD | 4 | SMSUSSCUR | Current number of unique subspace users |
| (C) | FULLWORD | 4 | SMSUSSCUM | Cumulative number of unique subspace users |
| (10) | FULLWORD | 4 | SMSUSSHWM | HWM of unique subspace users |
| (14) | FULLWORD | 4 | SMSCSSCUR | Current number of common subspace users |
| (18) | FULLWORD | 4 | SMSCSSCUM | Cumulative number of common subspace users |
| (1C) | FULLWORD | 4 | SMSCSSHWM | HWM of common subspace users |
| (20) | FULLWORD | 4 | SMSDSALIMIT | Current DSA limit |
| (24) | FULLWORD | 4 | SMSEDSALIMIT | Current EDSA limit |
| (28) | FULLWORD | 4 | SMSDSATOTAL | Current DSA total |
| (2C) | FULLWORD | 4 | SMSEDSATOTAL | Current EDSA total |
| (30) | FULLWORD | 4 | SMSHWMDSATOTAL | HWM DSA total |
| (34) | FULLWORD | 4 | SMSHWMEDSATOTAL | HWM EDSA total |
| (38) | FULLWORD | 4 | | reserved |
| (3C) | FULLWORD | 4 | | reserved |
| (40) | FULLWORD | 4 | | reserved |
| (44) | FULLWORD | 4 | | reserved |
| (48) | FULLWORD | 4 | | reserved |
| (4C) | FULLWORD | 4 | | reserved |
| | .1.1 | | SMSGEND | "" The end. |
| | .1.1 | | SMSGLEN | ""-SMSGLOBAL" Length of global area |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | SMSBODY | Storage statistics body |
| (0) | CHARACTER | 8 | SMSDSANAME | DSA name |
| (8) | BITSTRING | 1 | SMSLOCN | Location (below/above) |
| (9) | BITSTRING | 1 | SMSACCESS | Access |
| (A) | BITSTRING | 1 | SMSDSAINDEX | DSA index |
| (B) | CHARACTER | 1 | | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------------|-------------|-----|--------------|---|
| (C) | FULLWORD | 4 | SMSDSASZ | Current size of DSA |
| (10) | FULLWORD | 4 | SMSHWMDSASZ | HWM Size of DSA |
| (14) | FULLWORD | 4 | SMSCSIZE | Current cushion size |
| (18) | FULLWORD | 4 | SMSGMREQ | Number of Getmain reqs |
| (1C) | FULLWORD | 4 | SMSFMREQ | Number of Freemain reqs |
| (20) | FULLWORD | 4 | SMSASR | Number of Add-subpool reqs |
| (24) | FULLWORD | 4 | SMSDSR | Number of Del-subpool reqs |
| (28) | FULLWORD | 4 | SMSCRISS | Cond reqs returning insufficient stg |
| (2C) | FULLWORD | 4 | SMSUCSS | Uncond reqs suspended |
| (30) | FULLWORD | 4 | SMSCSS | Curr reqs susp for storage |
| (34) | FULLWORD | 4 | SMSHWMSS | HWM reqs susp for storage |
| (38) | FULLWORD | 4 | SMSPWWS | Number of tasks purged, waiting storage |
| (3C) | FULLWORD | 4 | SMSCREL | Number of cushion releases |
| (40) | FULLWORD | 4 | SMSOSS | Times SOS occurred |
| (44) | FULLWORD | 4 | | reserved |
| (48) | DBL WORD | 8 | SMSTSOS | Total time SOS |
| (50) | FULLWORD | 4 | SMSCSUBP | Current Number of subpools |
| (54) | FULLWORD | 4 | SMSFSTG | Free storage (inc cushion) |
| (58) | FULLWORD | 4 | SMSHWMFSTG | HWM free storage (inc cushion) |
| (5C) | FULLWORD | 4 | SMSLWMFSTG | LWM free storage (inc cushion) |
| (60) | FULLWORD | 4 | SMSLFA | Largest free area in DSA |
| (64) | FULLWORD | 4 | SMSV | Number of storage violations |
| (68) | FULLWORD | 4 | SMSEXTS | Current number of extents |
| (6C) | FULLWORD | 4 | SMSEXTSA | Number of extents added |
| (70) | FULLWORD | 4 | SMSEXTSR | Number of extents released |
| (74) | FULLWORD | 4 | | reserved |
| (78) | FULLWORD | 4 | | reserved |
| (7C) | FULLWORD | 4 | | reserved |
| | 1... .. | | SMSBEND | "" |
| | 1... .. | | SMSBLEN | ""-SMSBODY" Length of Body |
| Equates for testing SMSSTGPROT. | | | | |
|  | .... .. |  | SMSSTGPROTNA | "0" STGPROT not active |
| |1 | | SMSSTGPROTA | "1" STGPROT active |
| Equates for testing SMSRENTPGM. | | | | |
|  | .... .. |  | SMSRENTPGMNP | "0" RENTPGM noprotect |
| |1 | | SMSRENTPGMP | "1" RENTPGM protect |
| Equates for testing SMSSTRANISO. | | | | |
|  | .... .. |  | SMSTRANISONA | "0" TRANISO not active |
| |1 | | SMSTRANISOA | "1" TRANISO active |
| Equates for testing SMSLOCN | | | | |
| |1 | | SMSBELOW | "1" |
| |1. | | SMSABOVE | "2" |
| Equates for testing SMSACCESS | | | | |
| |1 | | SMSCICS | "1" |
| |1. | | SMSUSER | "2" |
| |11 | | SMSREADONLY | "3" |
| Equates for testing SMSDSAINDEX | | | | |
| |1 | | SMSCDSA | "1" |
| |1. | | SMSUDSA | "2" |
| |11 | | SMSSDSA | "3" |
| |1.. | | SMSRDSA | "4" |
| |1.1 | | SMSECDSA | "5" |
| |11. | | SMSEUDSA | "6" |
| |111 | | SMSESDSA | "7" |
| | 1... | | SMSERDSA | "8" |

SMT Storage subpool storage statistics

CONTROL BLOCK NAME = DFHSMTDS
 DESCRIPTIVE NAME = CICS Storage statistics for task subpools.
 FUNCTION = This DSECT describes the task subpool statistics provided by the storage manager.
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.
 An instance of this data area may represent the statistics for either the task subpools above the 16 meg line or those below the 16 meg line.
 There is a single instance of this data block.
 LIFETIME = This data block is created by the storage manager to hold task subpool statistics. It is released when the request for statistics has been satisfied.
 LOCATION = Caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS From storage manager domain.
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------------|
| (0) | | | DFHSMTDS | Task subpool statistics header |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | SMTLEN | Length of data area |
| |11. | | SMTIDE | "6" Task subpool id mask |
| (2) | ADDRESS | 2 | SMTID | Task subpool stats id |
| |1 | | SMTVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | SMTDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| | 1.. | | SMTHEND | *** End of header |
| | 1.. | | SMTLEN | **-SMTLEN" Header length |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | | | SMTGLOBAL | Global statistics |
| (0) | HALFWORD | 2 | SMTNTASK | No. of task subpools |
| (2) | HALFWORD | 2 | | reserved |
| |1.. | | SMTGEND | *** The end |
| |1.. | | SMTGLEN | **-SMTGLOBAL" length of global area |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|----------------------------------|
| (0) | | | SMTBODY | Task subpool statistics body |
| (0) | CHARACTER | 8 | SMTDSANAME | DSA name |
| (8) | BITSTRING | 1 | SMTLOCN | Location - Above/below the line |
| (9) | BITSTRING | 1 | SMTACCESS | Access - CICS/USER |
| (A) | BITSTRING | 1 | SMTDSAINDEX | DSA index |
| (B) | CHARACTER | 1 | | Reserved |
| (C) | FULLWORD | 4 | SMTGMREQ | No. Getmain reqs |
| (10) | FULLWORD | 4 | SMTFMREQ | No. Freemain reqs |
| (14) | FULLWORD | 4 | SMTCES | Sum of all element lengths |
| (18) | FULLWORD | 4 | SMTCPSP | Current page storage |
| (1C) | FULLWORD | 4 | SMTCPNE | Current No. elements |
| (20) | FULLWORD | 4 | SMTMWMPS | High Water Mark Page storage |
| | ..1. .1.. | | SMTBEND | *** End of body |
| | ..1. .1.. | | SMTBLEN | **-SMTBODY" Length of body DSECT |

Equate for testing SMTLOCATION.

| | | |
|----------|----------|-----|
|1 | SMTBELOW | "1" |
|1. | SMTABOVE | "2" |

Equates for testing SMTACCESS

| | | |
|----------|---------|-----|
|1 | SMTCICS | "1" |
|1. | SMTUSER | "2" |

Equates for testing SMTDSAINDEX.

| | | |
|-----------|----------|-----|
|1 | SMTCDSA | "1" |
|1. | SMTUDSA | "2" |
|1.1 | SMTECDSA | "5" |
|11. | SMTEUDSA | "6" |

SNEX Signon extension block

CONTROL BLOCK NAME = DFHSNEXC
 DESCRIPTIVE NAME = CICS Sign-on Extension to the TCTTE
 FUNCTION =
 The Signon Extension is owned by the Signon component of the AP Domain and contains information related to the Signon and Terminal Timeout processes. Each TCTTE has its own Signon Extension which is pointed to by the TCTESNEX pointer.
 LIFETIME =
 A SNEX is created at the same time that a TCTTE is created when a terminal definition is installed.
 STORAGE CLASS =
 CICS storage, above the 16Mb line in the subpool 'SNEX'. No element chaining.
 LOCATION =
 A SNEX is located by using the TCTESNEX pointer in the TCTTE.
 NOTES :
 DEPENDENCIES = S/390
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------------|-----------------------------|
| (0) | STRUCTURE | 40 | DFHSNEX | Start of SNEX control block |
| Userid: | | | | |
| SNEX_USERID: | | | | |
| This field is used to contain the preset userid for macro defined terminals only. When the terminal has been installed, and the userid has been signed on, this field is overlaid by the principal user token and session user token (null). The flag SNEX_PRESET_USERID_PRESENT indicates whether this field currently contains a userid or tokens. | | | | |
| (0) | CHARACTER | 8 | SNEX_USERID | |
| User Tokens: | | | | |
| SNEX_PRINCIPAL_USER_TOKEN: | | | | |
| This field contains the user token associated with the user currently signed on at this terminal. | | | | |
| SNEX_SESSION_USER_TOKEN: | | | | |
| If this terminal represents a session, this field contains the user token associated with the userid signed on at this terminal. | | | | |
| (0) | UNSIGNED | 4 | SNEX_PRINCIPAL_USER_TOKEN | |
| (4) | UNSIGNED | 4 | SNEX_SESSION_USER_TOKEN | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|---|
| Terminal Timeout Information: | | | | |
| SNEX_TIMEOUT_TIME: | | | | |
| | | | | This is the time (in STCK format) that this terminal is next due to timeout. |
| SNEX_TIMEOUT_INTERVAL: | | | | |
| | | | | This is the timeout interval for the currently signed on user expressed as the top word of a STCK value. |
| SNEX_TIMEOUT_FLAGS: | | | | |
| | | | | SNEX_TIMEOUT_ELIGIBLE This flag is on only if the terminal is eligible for timeout processing. To be eligible, the terminal must: |
| | | | | - not be defined with SIGNOFF=NO |
| | | | | - not have preset security |
| | | | | - be signed on |
| | | | | - be signed on by a userid that has a non-zero timeout interval |
| | | | | - not be performing transaction routing unless under the CRTE transaction |
| SNEX_TIMEOUT_ENABLED: | | | | |
| | | | | When ON this flag indicates that the terminal is in the TIMEOUT ENABLED state. When OFF this flag indicates that the terminal is in the TIMEOUT DISABLED state. |
| SNEX_TIMEOUT_TIMEDOUT: | | | | |
| | | | | When ON this flag indicates that the terminal is currently being timed out. |
| SNEX_SAVED_ATI_STATUS: | | | | |
| | | | | This flag is used to save the setting of the ATI status of the terminal while the goodnight transaction is being scheduled. |
| (8) | CHARACTER | 8 | SNEX_TIMEOUT_TIME | |
| (8) | UNSIGNED | 4 | HIGH_WORD | |
| (C) | UNSIGNED | 4 | LOW_WORD | |
| (10) | UNSIGNED | 4 | SNEX_TIMEOUT_INTERVAL | |
| (14) | BITSTRING | 1 | SNEX_TIMEOUT_FLAGS | |
| | 1... | | SNEX_TIMEOUT_ELIGIBLE | |
| | .1.. | | SNEX_TIMEOUT_ENABLED | |
| | ..1. | | SNEX_TIMEOUT_TIMEDOUT | |
| | ...1 | | SNEX_SAVED_ATI_STATUS | |
| | 1111 | | * | Reserved |
| XRF Information | | | | |
| SNEX_XRF_FLAGS: | | | | |
| SNEX_XRF_REFLECTABLE: | | | | |
| | | | | This flag indicates whether the terminal should have its signon state reflected on an ALTERNATE XRF system. For this flag to be ON, the XRFSOFF SIT parameter must be set to NOFORCE, the XRFSGNOFF flag in the terminal's TYPETERM definition must be set to NOFORCE and the users CICS segment in RACF must show that the user is not to be signed off after an XRF takeover. If any of the above conditions are false, this flag is set OFF. |
| (15) | BITSTRING | 1 | SNEX_XRF_FLAGS | |
| | 1... | | SNEX_XRF_REFLECTABLE | |
| | .111 1111 | | * | |
| Userid Length | | | | |
| SNEX_USERID_LENGTH This field contains the length of the userid contained in SNEX_USERID. This field is only valid for macro defined terminals. Once the terminal has been installed by CICS this field is returned to zeros. | | | | |
| (16) | UNSIGNED | 1 | SNEX_USERID_LENGTH | |
| (17) | CHARACTER | 1 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------------------|-------------|
| Transaction Statistics Information | | | | |
| SNEX_TXN_COUNT: Keeps tally of the number of txns run by this user at this terminal for the duration of the current signon. | | | | |
| SNEX_TXN_ERROR_COUNT: Keeps tally of the number of txn errors in this signon session. | | | | |
| (18) | FULLWORD | 4 | SNEX_TXN_COUNT | |
| (1C) | FULLWORD | 4 | SNEX_TXN_ERROR_COUNT | |
| Miscellaneous Flags | | | | |
| SNEX_PRESET_SECURITY: Flag used to signal if this terminal has preset security. This flag is also set on for sessions that have a preset session userid. | | | | |
| SNEX_SESSION_SIGNED_ON: Flag used to signal that this session has been session (link) signed on. | | | | |
| SNEX_PRESET_USERID_PRESENT: Flag used to indicate that a preset userid exists in the SNEX_USERID field. This is used to perform a preset signon when the terminal is installed. This is only used in the case of macro defined terminals. | | | | |
| SNEX_SESSION_SIGNED_ON_AS_DEFAULT: Flag used to signal that this session has been session (link) signed on with default attributes. This is used in signoff session userid to stop unnecessary delete user processing. | | | | |
| SNEX_SESSION_USER_TOKEN_X: Flag used to indicate that this SNEX contains a valid user token in the SNEX_SESSION_USER_TOKEN field. The session user token might be null, but this can still be a valid session user token. This happens in the cases where it is necessary to enforce a link security check against the default user. | | | | |
| SNEX_LUIT_TABLE_UPDATED: Flag used to indicate whether during a signon_attach_header the LUIT table was updated. This flag should only be set on during a signon attach header for a persistent verification FMH-5. When this terminal is attach signed off, then this flag should be turned off ready for the next user of this terminal. | | | | |
| SNEX_EQUIVALENT_SYSTEMS: Flag used to let DFHZNCA know that although this session does not have the snex preset security flag on, it did however have a preset session userid, but it was the same as this system's jobstep userid. This is known as equivalent systems for LU6.1 and LU6.2, but a different check is made for MRO for equivalent systems. Namely that the link security name is the same as the jobstep userid of the connecting system. Hence this flag is not required for MRO, because we can only make the equivalence check when we know the connectee's userid. This is done in DFHCRNP when the connection is acquired. | | | | |
| (20) | CHARACTER | 1 | SNEX_FLAGS | |
| | 1... .. | | SNEX_PRESET_SECURITY | |
| | .1.. .. | | SNEX_SESSION_SIGNED_ON | |
| | ..1. | | SNEX_PRESET_USERID_PRESENT | |
| | ...1 | | SNEX_SESSION_SIGNED_ON_AS_DEFAULT | |
| | 1... | | SNEX_SESSION_USER_TOKEN_X | |
| |1.. | | SNEX_LUIT_TABLE_UPDATED | |
| |1. | | SNEX_EQUIVALENT_SYSTEMS | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------|---------------|
| (21) | CHARACTER | 1 | SNEX_FLAGS2 | Reserved |
| Console support flags | | | | |
| SNEX_CONSOLE_REFLECT_FIRST_USER: Set if user specified USERID(FIRST) on the TERMINAL definition for the console. On install the real user that MVS has nominated in the CIB is signed on as a preset userid. | | | | |
| SNEX_CONSOLE_REFLECT EVERY_USER: Set if user specified USERID(EVERY) on the TERMINAL definition for the console. On install and on every following message the user is signed-on (if it has changed) as a preset userid. | | | | |
| (21) | CHARACTER | 1 | SNEX_CONSOLE | |
| | 1... .. | | SNEX_CONSOLE_ | |
| | .1.. .. | | REFLECT_ FIRST_USER | |
| | ..11 1111 | | SNEX_CONSOLE_ | |
| | | | REFLECT_ EVERY_USER | |
| | | | * | Reserved @01A |
| (22) | CHARACTER | 2 | * | Reserved @01A |
| (24) | CHARACTER | 4 | * | Reserved |
| (28) | CHARACTER | | SNEX_END | End of SNEX |

SNGN Gntran stub parameter list for cegn

| |
|-------------------|
| - |
| DFHSNGNC Copybook |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|--------------------------------|
| (0) | STRUCTURE | 24 | DFHSNGN | CEGN Parameter List |
| (0) | CHARACTER | 8 | CEGN_EYECATCHER | Ensures CEGN started by CESC |
| (8) | CHARACTER | 8 | CEGN_TIMEOUT_ TIME | Timeout time in STCK format |
| (10) | ADDRESS | 4 | CEGN_TCTTE_ADDR | -> TCTTE of timed-out terminal |
| (14) | CHARACTER | 1 | CEGN_TIMEOUT_ REASON | Mechanism causing timeout |
| (15) | CHARACTER | 3 | * | Reserved |
| (18) | CHARACTER | | * | End of parameter list |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|----------|------------------------|-------------|
| 8 | CHARACTER | >>CEGN>> | CEGN_EYECATCHER_ VALUE | |

SNGS Goodnight transaction parameter list

-

DFHSNGSC Copybook

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------------------|---|
| (0) | STRUCTURE | * | DFHSNGS | GNTRAN Parameter List |
| (0) | CHARACTER | 64 | DFHSNGS_FIXED | Fixed part |
| (0) | CHARACTER | 4 | GNTRAN_ START_TRANSID | Always equal to "CEGN" |
| (4) | CHARACTER | 1 | GNTRAN_ PSEUDO_CONV_FLAG | Terminal was in pseudo conversation when it was timed out: 'Y' or 'N' |
| (5) | CHARACTER | 1 | GNTRAN_ SCREEN_TRUNCATED | 3270 screen buffer had to be truncated: 'Y' or 'N' |
| (6) | CHARACTER | 1 | GNTRAN_ TRANSLATE_TIOA | Flag to indicate that TIOA input to GNTRAN needs upper case translation. |
| (7) | CHARACTER | 9 | * | Reserved |
| (10) | CHARACTER | 8 | GNTRAN_TIMEOUT_TIME | Time that the terminal timed out in CICS ABSTIME format. |
| (18) | CHARACTER | 1 | GNTRAN_ TIMEOUT_REASON | Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout |
| (19) | CHARACTER | 11 | * | Reserved |
| (24) | CHARACTER | 4 | GNTRAN_PSEUDO_ CONV_TRANSID | Next transaction to run at this terminal had it not been timed out. |
| (28) | HALFWORD | 2 | GNTRAN_ SCREEN_LENGTH | Length of screen buffer left by previous transaction |
| (2A) | HALFWORD | 2 | GNTRAN_ CURSOR_POSITION | Cursor position left by previous transaction |
| (2C) | HALFWORD | 2 | GNTRAN_ SCREEN_WIDTH | Width of screen left by previous transaction |
| (2E) | HALFWORD | 2 | GNTRAN_ SCREEN_HEIGHT | Height of screen left by previous transaction |
| (30) | CHARACTER | 16 | GNTRAN_USER_FIELD | Available to user |
| (40) | CHARACTER | * | DFHSNGS_VARIABLE | Variable part |
| (40) | CHARACTER | * | GNTRAN_ SCREEN_BUFFER | Variable length field containing the contents of the screen. |

SNSTA Sign-on LUIT and SNT statistics

CONTROL BLOCK NAME = DFHSNSTA
 DESCRIPTIVE NAME = CICS (SIGNON)
 FUNCTION =
 This control block is used to store statistics produced by the management of the LUIT tables during SIGNONs involving LU6.2 type connections.
 The storage for this control block is GETMAINed in DFHTCRP.
 This is only one instance of this control block per CICS system, and it is updated everytime a user is added/reused or deleted from the LUIT.
 LIFETIME =
 The storage is GETMAINed during security initialisation, and it is released when CICS terminates.
 STORAGE CLASS =
 This control block is AMODE(31) RMODE(ANY)
 LOCATION =
 This control block is chained off the CSA.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|--|
| (0) | STRUCTURE | 12 | DFHSNSTA | Stats for SNT & LUIT tables |
| (0) | FULLWORD | 4 | LUIT_TOTAL_REUSES | Total number of entries * * reused in LUIT tables |
| (4) | FULLWORD | 4 | LUIT_TOTAL_TIMEOUTS | Total number of entries * * timed out in LUIT tables |
| (8) | FULLWORD | 4 | LUIT_AV_REUSE_TIME | Average reuse time between * * entries in the LUIT table |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------------|-------------|
| 2 | DECIMAL | 12 | SNSTA_LENGTH | |

SORDS Tcp/ip service

CONTROL BLOCK NAME = DFHSORDS
 DESCRIPTIVE NAME = CICS TCP/IP Service (Sockets) Statistics
 FUNCTION =
 This data area contains the tcp/ip service (sockets) statistics provided by the Sockets Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Sockets Domain to store statistics to be passed to the user in response to a for tcp/ip service statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSORDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|--|
| (0) | | | DFHSORDS | TCP/IP Service Resid stats record |
| (0) | HALFWORD | 2 | SORDS_LEN | TCP/IP Service stats record length |
| (2) | ADDRESS | 2 | SORDS_ID | TCP/IP service stats id |
| (4) | CHARACTER | 1 | SORDS_VERS | TCP/IP Service stats version |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | CHARACTER | 8 | SOR_SERVICE_NAME | TCP/IP Service name |
| (10) | FULLWORD | 4 | SOR_TRANS_ATTACHED | No. of Transactions Attached |
| (14) | FULLWORD | 4 | SOR_CURRENT_CONNS | Current number of Connections |
| (18) | FULLWORD | 4 | SOR_PEAK_CONNS | Peak number of Connections |
| (1C) | BITSTRING | 8 | SOR_OPEN_GMT | Service Open Time (GMT) |
| (24) | BITSTRING | 8 | SOR_OPEN_LOCAL | Service Open Time (Local) |
| (2C) | BITSTRING | 8 | SOR_CLOSE_GMT | Service Close Time (GMT) |
| (34) | BITSTRING | 8 | SOR_CLOSE_LOCAL | Service Close Time (Local) |
| (3C) | BITSTRING | 2 | SOR_PORT_NUMBER | TCP/IP Service Port Number |
| (3E) | BITSTRING | 1 | SOR_SSL_SUPPORT | TCP/IP Service SSL Support |
| (3F) | BITSTRING | 1 | | Reserved |
| (40) | FULLWORD | 4 | SOR_BACKLOG | TCP/IP Service Backlog |
| (44) | FULLWORD | 4 | SOR_SENDS | No. of Sends (all sockets) |
| (48) | BITSTRING | 8 | SOR_BYTES_SENT | No. of Bytes Sent (all sockets) |
| (50) | FULLWORD | 4 | SOR_RECEIVES | No. of Receives (all sockets) |
| (54) | BITSTRING | 8 | SOR_BYTES_RECEIVED | No. of Bytes Received (all sockets) |
| (5C) | CHARACTER | 15 | SOR_IP_ADDRESS | TCP/IP Service IP Address |
| (6B) | BITSTRING | 1 | | Reserved |
| | .11. 11.. | | SORDS_END | *** |
| | .11. 11.. | | SORDS_LENGTH | **-SORDS_LEN" TCP/IP Service record length |

Constants that denote a SO tcp/ip service stats record

| | | |
|------------|------------------|-------------------------------------|
| .11. 11.. | SORIDR | "108" TCP/IP Service resid stats id |
|1 | SOR_VERS | "X'01" Record version number |
|1 | SOR_SSL_YES | "X'01" SSL = Yes |
|1. | SOR_SSL_NO | "X'02" SSL = No |
|11 | SOR_SSL_CLI_AUTH | "X'03" SSL = Client Authentication |

SPI Task local storage definition

```

MODULE NAME = DFHDMTSL
DESCRIPTIVE NAME = CICS Resource Definition Online
                Task Local Storage definition.
SPI Task Local Storage definition.
USE:
IN CICS:
    AMP, DMP and PUP (PPT programs).
IN BATCH:
    All modules subordinate to
    and including DFHCUCP.
ADDRESSABILITY:
IN CICS:
    BASED on TCADMTLA field in TCA.
IN BATCH:
    BASED on DMTLA, passed as a parameter to all modules
    subordinate to DFHCUCP.
SIZE:
    Size is length of structure DFHDMTSL.
OBTAINED:
IN CICS:
    by DFHDMP03 adaptor, via:
        DFHDMP router, via:
        DFHAMPFI routine, via:
        DFHAMP router.
IN BATCH:
    by DFHDMP05 adaptor, via:
        DFHCUCP.
FREED
IN CICS:
    by DFHAMPEN routine called by AMP.
IN BATCH:
    by DFHDMP05 adaptor, via:
        DFHCUCP.
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (0) | STRUCTURE | 296 | DFHDMTSL | |
| Address of KWA chain. Number of links in KWA chain. | | | | |
| (0) | ADDRESS | 4 | TLPTR1 | |
| (4) | FULLWORD | 4 | TLEN1 | |
| Primary CSD control record. In-store address. Length of In-store primary record structure: Containing duplicate record. | | | | |
| (8) | ADDRESS | 4 | TLPTR2 | |
| (C) | FULLWORD | 4 | TLEN2 | |
| LD table address. | | | | |
| (10) | ADDRESS | 4 | TLPTR3 | |
| TLSYSID (Batch only): Operating System (MVS or DOS) FCxxxx (initialisation only) FCT values to be restored on CSD close. | | | | |
| (14) | CHARACTER | 4 | TLSYSID | |
| | 1... .. | | FCADD | remember fct value |
| | .1. | | FCUPDATE | ditto for update |
| | ..1. | | FCDELETE | and delete |
| Miscellaneous global fields (a) for DFHAMP (CICS) (b) for DFHCSDUP (batch) | | | | |
| (18) | CHARACTER | 20 | GLOBMISC | |
| (18) | ADDRESS | 4 | AMARGANC | AMP anchor for arg lists DFHCSDUP misc globals |
| (18) | BITSTRING | 1 | TLCUBITS | Flag bits |
| | 1... .. | | TLMSGOFF | Suppress msgs.from BEP |
| | .1. | | TLRDCICS | Processing CICS-supplied resource definition list |
| | ..1. | | TLRDTMIG | Processing migrated RDT |
| | ...1 | | TLUPGUSG | Processing UPGRADE USING |
| | 1... | | TLIGNOIW | Ignore I and W msgs |
| |1.. | | TLPCURDD | Processing CURDD/CURDN |
| |1. | | TLUSRDEF | Userdefine command |
| |1 | | * | Reserved |
| (19) | BITSTRING | 1 | * | Reserved |
| (1A) | HALFWORD | 2 | TLKEYNUM | Current keyword number AMP anchors (Continued) |
| (1C) | ADDRESS | 4 | AMERRANC | Anchor for error msgs |
| (20) | ADDRESS | 4 | SYSTEMER | Internal msg anchor |
| (24) | ADDRESS | 4 | AMDISANC | Display block anchor |
| (28) | ADDRESS | 4 | TLARG0PT | Current argument 0 ptr |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|---------------|---|
| Task-local variables for DFHTOR (Terminal Object Resolution). TRCURSTA records the current (summary) state of data type TR tr_current_state : <initial, luip, eg1, eg2, error> | | | | |
| (2C) | HALFWORD | 2 | TRCURSTA | |
| (2E) | HALFWORD | 2 | * | Reserved for alignment TRSTATUS is used by all the modules that implement TR. |
| (30) | CHARACTER | 8 | TRSTATUS | TRSTATUS is used to indicate exceptional conditions as they arise. |
| (30) | FULLWORD | 4 | TRRESP | TR-global response code. |
| (34) | FULLWORD | 4 | TRREASON | TR-global reason code. |
| The following 11 variables are in "tr_state". They represent mappings from names to either a) other names or b) resource definitions. The data length of each (CHAR(20)) is dependent upon the implementation as encoded in DFHTOMAC etc. | | | | |
| (38) | CHARACTER | 20 | MMNDX | autodefine models tt_ndx : MAP OF (ttid,tdef) |
| (4C) | CHARACTER | 20 | TTNDX | TYPTERM names,defns. tm_ndx : MAP OF (tmid,tmdef) |
| (60) | CHARACTER | 20 | TMNDX | CICS tmids tm_use : MAP OF (tmid,ttid) |
| (74) | CHARACTER | 20 | TMUSE | TYPETERM references. pt_ndx : MAP OF (tmid,ptdef) |
| (88) | CHARACTER | 20 | PTNDX | pooled TERMINALS pt_use : MAP OF (tmid,ttid) |
| (9C) | CHARACTER | 20 | PTUSE | TYPETERM references cn_ndx : MAP OF (cnid,cndefr) |
| (B0) | CHARACTER | 20 | CNNDX | CONNECTIONS se_ndx : MAP OF (seid,sedefr) |
| (C4) | CHARACTER | 20 | SENDX | SESSIONS se_use : MAP OF (seid,cnid) |
| (D8) | CHARACTER | 20 | SEUSE | SESSIONS refergences |
| End of DFHTOR-specific variables. | | | | |
| AMP EXPAND\|DISPLAY BROWSE SPECIFIC KEYWORDS | | | | |
| (EC) | CHARACTER | 32 | * | BROWSE work area |
| (EC) | BITSTRING | 1 | * | Status flags |
| | 1... .. | | * | Reserved |
| | .1.. .. | | EXPANDAC | EXPAND active |
| | ..1. | | EXPANDNX | SET TO 1 WHEN 1ST NEXT IS OK * |
| | ...1 | | DISPLYAC | DISPLAY active |
| | 1... | | * | Reserved |
| |1.. | | CREATCOM | Create command |
| |1. | | POOLINPR | Terminal pool in progress |
| |1 | | CONNINPR | Connection in progress |
| (ED) | BITSTRING | 1 | * | Reserved |
| (EE) | BITSTRING | 1 | * | Reserved |
| (EF) | BITSTRING | 1 | * | Reserved |
| (F0) | FULLWORD | 4 | EXPANDTY | EXPAND type (list or group) * |
| (F4) | ADDRESS | 4 | EXPKWA | EXPAND KWA pointer |
| (F8) | CHARACTER | 8 | EXPNAME | Name of group or list EXPANDed |
| (100) | FULLWORD | 4 | DISPLYTY | DISPLAY type (list or group) * |
| (104) | ADDRESS | 4 | DISPKWA | DISPLAY KWA pointer |
| (108) | UNSIGNED | 2 | BROWSID | Last Reqid used |
| (10A) | HALFWORD | 2 | * | Reserved for alignment |
| RESPONSE and REASON codes returned via API | | | | |
| (10C) | FULLWORD | 4 | APIRESP | API Response code |
| (110) | FULLWORD | 4 | APIREAS | API Reason code |
| (110) | UNSIGNED | 2 | APIREAS_HIGH | High halfword of Reason |
| (112) | UNSIGNED | 2 | APIREAS_LOW | Low halfword of Reason |
| Information from the Parameter List passed to DFHCSDUP from a user program. | | | | |
| (114) | CHARACTER | 8 | CSD_NAME | DD NAME OF ALTERNATIVE CSD |
| Name of the current terminal pool or connection being installed | | | | |
| (11C) | CHARACTER | 8 | TLS_POOL_NAME | Terminal pool in progress |
| (11C) | CHARACTER | 4 | TLS_CONN_NAME | Connection in progress |
| (128) | CHARACTER | | * | End of storage |

SRA SRB interface mapping

MODULE NAME = DFHSRADS
 DESCRIPTIVE NAME = CICS SRB INTERFACE MAPPING
 SRB INTERFACE CONTROL AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | | | DFHSRADS | |
| (0) | BITSTRING | 1 | SRAFLAGS | FLAGS FIELD |
| NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED | | | | |
| | 1... | | SRAVTAM | "X'80" VTAM AUTH. PATH INSTALLED |
| NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED | | | | |
| | .1. | | SRAICIP | "X'40" VSAM ICIP INSTALLED |
| (1) | BITSTRING | 3 | | RESERVED |
| (4) | ADDRESS | 4 | | Reserved - was SRANXHTA |
| (8) | DBL WORD | 8 | (0) | DOUBLE WORD ALIGN FOR CDS |
| (8) | ADDRESS | 4 | SRARQCHN | HEAD OF SRB REQUEST CHAIN |
| (C) | FULLWORD | 4 | | COUNTER FOR CDS PAIR |
| (10) | ADDRESS | 4 | SRARQEND | LAST ITEM IN REQUEST CHAIN |
| (14) | ADDRESS | 4 | (2) | RESERVED |
| (1C) | ADDRESS | 4 | SRASRXA | ADDRESS OF SRX BLOCK |
| (20) | FULLWORD | 4 | | RESERVED |
| COUNTERS TO CONTROL SRB SCHEDULING | | | | |
| (24) | FULLWORD | 4 | SRALRQCT | OUTSTANDING LONG REQUESTS |
| (28) | DBL WORD | 8 | (0) | ALIGN ON DWORD BOUNDARY. FOLLOWING TWO FIELDS FORM A CDS PAIR |
| (28) | FULLWORD | 4 | SRASRQXS | EXCESS OF OUTSTANDING SHORT REQUESTS OVER LIMIT (SET INITIALLY TO -SRARQLIM) |
| (2C) | FULLWORD | 4 | SRASHORT | EXCESS OF SHORT RUN SRBS OVER LIMIT (INIT -SRASRLIM) |
| (30) | FULLWORD | 4 | SRATOTAL | TOTAL RUNNING SRB'S |
| (34) | FULLWORD | 4 | SRARQLIM | SHORT TERM REQUEST THRESHOLD |
| (38) | FULLWORD | 4 | SRASRLIM | SHORT TERM SRB THRESHOLD |
| |1. | | SRARQLMV | "2" REQUEST COUNT THRESHOLD |
| |1. | | SRASRLMV | "2" SHORT RUN SRB THRESHOLD |
| | ..11 11.. | | SRAAD | "*-DFHSRADS" LENGTH OF SRA |

SRB Service request block

```

START OF SPECIFICATIONS
01 PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
01 STATUS: HBB5520
01 DESCRIPTIVE NAME: Service Request Block
02 ACRONYM: SRB
01 EXTERNAL CLASSIFICATION:
02 DMTI:BASE
02 GUPI:FIELDS
    SRBASCB
    SRBCPAFF
    SRBEP
    SRBFRRRA
    SRBID
    SRBPARM
    SRBPASID
    SRBPKF
    SRBPTCB
    SRBRMTR
01 END OF EXTERNAL CLASSIFICATION:
01 MACRO NAME: IHASRB
01 DSECT NAME:
    SRBSECT
01 COMPONENT: SUPERVISOR CONTROL (SC1C5)
01 EYE-CATCHER: SRB
02 OFFSET: 0
02 LENGTH: 4
01 STORAGE ATTRIBUTES:
02 SUBPOOL: Common, Fixed Storage
02 KEY: 0
02 RESIDENCY: ABOVE OR BELOW THE 16M LINE
01 SIZE: 44 BYTES
01 CREATED BY:
    Control program routines
01 POINTED TO BY:
    Built and initialized in user-allocated storage and
    passed as a parameter to the SCHEDULE macro.
    Pointed to by register 0 on entry to the SRB routine
    whose address is in SRBEP.
    ASCBXMPQ FIELD OF THE ASCB DATA AREA
    ASXBFSRB FIELD OF THE ASXB DATA AREA
    ASXBLSRB FIELD OF THE ASXB DATA AREA
    IOSSRB FIELD OF THE IOSB DATA AREA
    PCBSRB FIELD OF THE PCB DATA AREA
    SRBFLNK FIELD OF THE SRB DATA AREA
    SVTGSMQ FIELD OF THE SVT DATA AREA
    SVTLSTMQ FIELD OF THE SVT DATA AREA
    SVTSRBA FIELD OF THE SVT DATA AREA
    TQESRB FIELD OF THE TQE DATA AREA
    TVCSSRBA FIELD OF THE TVCS DATA AREA
    WEBUPTR field of the WEB data area
01 SERIALIZATION:
    Owner-serialized.
01 FUNCTION:
    Used as input to the SCHEDULE macro when scheduling a
    routine for asynchronous execution.
01 METHOD OF ACCESS =
    BAL- DSECT ALWAYS PRODUCED, PERFORM USING ON SRBSECT
    BAL LISTING - SPECIFY LIST=YES OR NO ON MACRO CALL
    PLUS - SRBSECT WILL BE BASED(SRBPTR) .
    1. IF YOU WISH TO APPEND THE SRB TO THE END OF
        WHERE N IS AN INTEGER BETWEEN 2 AND 3,INCLUSIVE.
        SRBSECT WILL THEN BE AN UNBASED LEVEL N VARIABLE.
    2. IF YOU WISH TO APPEND ANOTHER CONTROL BLOCK TO THE END
        THE END OF THE SRB WILL BE REPLACED WITH A COMMA.
    EXAMPLE OF PLACING SRB BETWEEN TWO OTHER BLOCKS:
    DECLARE 1 MYBLOCK,
    2 MYFIELD,
    2 MYFIELD2
01 COMPONENT = SC1C5 (SUPERVISOR CONTROL)
01 DISTRIBUTION LIBRARY = AMACLIB
END OF SPECIFICATIONS
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------|
| (0) | | | SRBSECT | |
| (0) | ADDRESS | 4 | SRB (0) | |
| (0) | CHARACTER | 4 | SRBID | EBCDIC ACRONYM FOR SRB OR SSRB. |
| (4) | ADDRESS | 4 | SRBFLNK | FORWARD CHAIN FIELD |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (8) | ADDRESS | 4 | SRBASCB (0) | PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO |
| (8) | BITSTRING | 1 | | RESERVED. DO NOT USE. |
| (9) | ADDRESS | 3 | SRBASC24 | 24-bit ASCB address |
| (C) | CHARACTER | 8 | SRBFCL (0) | SRB AREA MOVED TO LOW CORE |
| (C) | BITSTRING | 2 | SRBCPAFF | CPU AFFINITY MASK |
| (E) | HALFWORD | 2 | SRBPASID | PURGEDQ ASID IDENTIFIER |
| (10) | ADDRESS | 4 | SRBPTCB | PURGEDQ TCB IDENTIFIER |
| (14) | ADDRESS | 4 | SRBEP (0) | ENTRY POINT OF ROUTINE |
| (14) | ADDRESS | 4 | SRBEPA | ADDRESS OF ENTRY POINT (31-BIT USERS) |
| | 1... | | SRBMODE | "X'80" ADDRESSING MODE INDICATOR |
| (18) | ADDRESS | 4 | SRBRMTR (0) | ADDRESS OF RESOURCE MANAGER ROUTINE |
| (18) | ADDRESS | 4 | SRBRMTRA | ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS) |
| | 1... | | SRBRMODE | "X'80" ADDRESSING MODE INDICATOR |
| (1C) | ADDRESS | 4 | SRBPARM | USER PARAMETER |
| (20) | ADDRESS | 4 | SRBWEB (0) | Address of this SRB's WEB. SERIALIZATION: None OWNERSHIP: Supervisor Control |
| (20) | ADDRESS | 4 | SRBSAVE | Reserved. Must be Zero. SERIALIZATION: None OWNERSHIP: Supervisor Control |
| (24) | BITSTRING | 1 | SRBPKF | PROTECT KEY INDICATION |
| (25) | BITSTRING | 1 | SRBPRIOR (0) | PRIORITY LEVEL INDIC |
| (25) | BITSTRING | 1 | SRBFLGS | SRB OPTION FLAGS |
| | 1... | | SRBLLREQ | "X'80" LOCAL LOCK REQUIRED |
| | .1. | | SRBLLHLD | "X'40" LOCAL LOCK HELD |
| | .1. | | SRBFRRREQ | "X'20" FRR REQUESTED |
| | ...1 | | SRBFRRCL | "X'10" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY. |
| | 1.. | | SRBSUSP | "X'08" SUSPENDED SRB ONLY ON FOR SSRB |
| |1. | | SRBPNONQ | "X'04" NON QUIESCABLE SRB |
|  | .... .... |  | SRBPSYS | "X'00" SYSTEM PRIORITY LEVEL |
| (26) | BITSTRING | 1 | SRBHLHI | INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION |
| (27) | BITSTRING | 1 | SRBFLGS1 | SRB TYPE FLAGS. |
| | 1... | | SRBMAIN | "X'80" SRB/SSRB MUST BE FREEMAINED. |
| | .1. | | SRBSP245 | "X'40" SRB/SSRB FROM SUBPOOL 245. |
| | .1. | | SRBBLK24 | "X'20" SRB BELOW THE LINE |
| | ...1 | | SRBXESF | "X'10" Mode=primary FRR - only meaningful if SRBFRRREQ is set. |
| | 1.. | | SRB1STS | "X'08" This SSRB represents the initial schedule of a workunit and has never been dispatched. |
| |1. | | SRBPMCS | "X'04" This SRB is in process-must complete mode |
| |1. | | SRBMSCHD | "X'02" This SRB was scheduled via the IEAMSCHD macro |
| |1 | | SRBRES7 | "X'01" RESERVED. |
| (28) | ADDRESS | 4 | SRBFRRR | FRR ROUTINE ADDRESS |
| (2C) | FULLWORD | 4 | SRBEND (0) | END OF SRB |
| | .1. 11.. | | SRBSIZE | "SRBEND-SRBSECT" SIZE OF SRB |
|  | .... .... |  | DFHSRXDS | "SRBSECT" CICS NAME FOR SECTION |
| (30) | DBL WORD | 8 | (0) | ALIGN START OF CICS FIELDS ON DOUBLE WORD BOUNDARY |
| START OF CICS EXTENSION AREA | | | | |
| (30) | ADDRESS | 4 | SRXRTNA | MVS SRB RETURN ADDRESS |
| (34) | ADDRESS | 4 | SRXCASAA | ADDRESS OF CICS CSA |
| (38) | ADDRESS | 4 | SRXEXLA | ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE |
| (3C) | ADDRESS | 4 | SRXKCSA | ADDRESS OF KCSP ENTRY LIST |
| (40) | ADDRESS | 4 | SRXRSCA | ADDRESS OF OS REGISTER SAVE AREA POOL CONTROL AREA |
| (44) | ADDRESS | 4 | SRXVAA | ATTACH-SRB VALIDATION |
| (48) | ADDRESS | 4 | SRXVEA | ENTER-SRB VALIDATION |
| (4C) | ADDRESS | 4 | SRXVTA | VTAM VALIDATION DATA |
| (50) | ADDRESS | 4 | SRXVSA | VSAM VALIDATION DATA |
| (54) | BITSTRING | 1 | SRXPPKEY | CICS PP STATE PROTECT KEY |
| (58) | DBL WORD | 8 | (0) | DOUBLE WORD ALIGN FOR CDS |
| (58) | ADDRESS | 4 | SRXNXSVA | HEAD OF FREE SAVE AREA |
| (5C) | FULLWORD | 4 | | CHAIN AND COUNTER (CDS PAIR) * |
| (60) | FULLWORD | 4 | SRXSAVE (16) | SAVE AREA FOR KCSP FOR BRANCH ENTRY TO POST * |
| (A0) | DBL WORD | 8 | (0) | ROUND UP TO DOUBLE WORD |
| | 1.1. | | SRXAAD | "-DFHSRXDS" LENGTH OF SRX |
| | 1111 .1.1 | | SRXSBPL | "245" SUBPOOL FOR SRX (SQA) |
| DEFINITIONS OF OFFSETS IN SAVE AREAS | | | | |
| | .1. 1.. | | RSCSVCHN | "72" FREE CHAIN FIELD (HEAD OF CHAIN IS IN SRXNXSVA) * |
| | .1. 1.. | | RSCSVFRR | "72" FRR PARAMETER AREA ADDR WHEN SAVE AREA IN USE * |
| | .1.1 | | RSCSVLTH | "80" LENGTH OF SAVE AREA |
| | 1111 11.. | | RSCSBPL | "252" SUBPOOL FROM WHICH SAVE AREAS ARE OBTAINED * |
| Definitions of offsets in FRR Parm Area | | | | |
| |1. | | FRRPSRX | "4" SRX Address |
| | 1.. | | FRRPRSCS | "8" OS reg save area address |
| | 11.. | | FRRPRSA | "12" Reg save area used by FRR code |
| | ...1 .111 | | FRRPISDW | "23" SDWA indicator |
| | 11.. | | FRRPSDW | "X'0C" SDWA was not passed |

SRED System recovery error data

CONTROL BLOCK NAME = DFHSREDS
 DESCRIPTIVE NAME = CICS System Recovery Error Data
 FUNCTION = Declares the SRP_ERROR_DATA structure. This
 contains information about an MVS abend, and is
 passed to global user exit XSRAB.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|---|
| (0) | STRUCTURE | 392 | SRP_ERROR_DATA | SRP error data |
| (0) | CHARACTER | 4 | SRP_ERROR_TYPE | Abend type 'ASRB' |
| (4) | BITSTRING | 2 | SRP_SYS_ABCODE | System abend code |
| (6) | BITSTRING | 2 | SRP_USER_ABCODE | User abend code |
| (8) | CHARACTER | 4 | SRP_ERROR_TRANID | Transaction id |
| (C) | CHARACTER | 8 | SRP_ERROR_ STACK_NAME | Kernel stack program |
| (14) | CHARACTER | 8 | SRP_ERROR_PPT_NAME | PPT program |
| (1C) | FULLWORD | 4 | SRP_ERROR_OFFSET | Offset in program |
| (20) | BITSTRING | 1 | SRP_ERROR_FLAGS | Flags |
| | 1... .. | | SRP_CICS_CODE | Abend in CICS code |
| | .1.. .. | | SRP_USER_CODE | Abend in user code |
| | ..1. | | SRP_PPT_ENTRY | PPT program present |
| | ...1 | | SRP_VALID_ OFFSET | Valid offset present |
| | 1... | | SRP_VALID_ REASON | Abend reason present |
| |1.. | | SRP_NOT_CICS_RB | CICS RB not in control at time of error |
| |11 | | * | Reserved |
| (21) | CHARACTER | 4 | SRP_ERROR_REASON | Abend reason code |
| (25) | CHARACTER | 3 | * | Reserved |
| (28) | CHARACTER | 152 | SRP_CICS_ ERROR_DATA | CICS error data |
| (28) | CHARACTER | 8 | SRP_CICS_EC_PSW | CICS EC PSW |
| (28) | CHARACTER | 2 | * | Padding |
| (2A) | 1... .. | | SRP_CICS_AR_MODE | AR mode? |
| (30) | CHARACTER | 8 | SRP_CICS_EC_INT | CICS interrupt data |
| (38) | CHARACTER | 64 | SRP_CICS_REGST | CICS GP regs |
| (78) | CHARACTER | 64 | SRP_CICS_AC_REGST | CICS Access Regs |
| (B8) | UNSIGNED | 1 | SRP_CICS_EXEC_KEY | CICS PSW key N in form X'0N' |
| (B9) | CHARACTER | 7 | * | Reserved |
| (C0) | CHARACTER | 152 | SRP_SYSTEM_ ERROR_DATA | System error data |
| (C0) | CHARACTER | 8 | SRP_SYSTEM_EC_PSW | System EC PSW |
| (C0) | CHARACTER | 2 | * | Padding |
| (C2) | BITSTRING | 1 | * | Padding |
| (C3) | 1... .. | | SRP_SYSTEM_ AR_MODE | AR mode ? |
| (C8) | CHARACTER | 8 | SRP_SYSTEM_EC_INT | System interrupt data |
| (D0) | CHARACTER | 64 | SRP_SYSTEM_REGST | System GP regs |
| (110) | CHARACTER | 64 | SRP_SYSTEM_AC_REGST | System Access regs |
| (150) | UNSIGNED | 1 | SRP_SYSTEM_EXEC_KEY | System PSW key N in form X'0N' |
| (151) | CHARACTER | 7 | * | Reserved |
| (158) | CHARACTER | 32 | SRP_ERROR_FP_REGS | FP regs |
| (158) | CHARACTER | 8 | SRP_FP_REG_0 | FP reg 0 |
| (160) | CHARACTER | 8 | SRP_FP_REG_2 | FP reg 2 |
| (168) | CHARACTER | 8 | SRP_FP_REG_4 | FP reg 4 |
| (170) | CHARACTER | 8 | SRP_FP_REG_6 | FP reg 6 |
| (178) | CHARACTER | 16 | SRP_ERROR_ SUBSPACE_INFO | |
| (178) | CHARACTER | 4 | SRP_ALET | ALET |
| (17C) | CHARACTER | 8 | SRP_SUBSPACE_TOKEN | Subspace token |
| (184) | BITSTRING | 1 | SRP_SUBSPACE_FLAGS | |
| | 1... .. | | SRP_SUBSPACE_ ACTIVE | Subspace/basespace |
| | .111 1111 | | * | Reserved |
| (185) | CHARACTER | 3 | * | Reserved |

SRT System recovery table

CONTROL BLOCK NAME = DFHSRTDS
 DESCRIPTIVE NAME = CICS System Recovery Table.
 FUNCTION =
 The System Recovery Table contains a list of System Abend codes that are intercepted by the Recovery program (DFHSRP).
 The user has the option of modifying the Table to meet his special requirements by use of the DFHSRT macros.
 The Table is loaded at CICS/MVS initialization.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (0) | | | DFHSRTDS | SYSTEM RECOVERY TABLE DSECT |
| (0) | CHARACTER | 4 | SRTABCID | ABEND CODE IDENTIFICATION |
| |1.. | | SRTED | ("-DFHSRTDS)" ENDING DISPLACEMENT |

SSA Static storage area address list

MACRO NAME = DFHSSAD
 DESCRIPTIVE NAME = CICS STATIC STORAGE AREA ADDRESS LIST
 FUNCTION = DFHSSAD GENERATES THE DSECT THAT IS USED BY CICS/ESA
 TO REFERENCE THE LIST OF STATIC STORAGE AREA ADDRESSES.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = MACRO
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 MACRO NAME = DFHSSAD
 DESCRIPTIVE NAME = STATIC STORAGE AREA ADDRESS LIST
 DSECT NAME: DFHSSADS
 FUNCTION =
 The Static Storage Area Address List is a list of addresses of the static storage areas used by various CICS modules.
 CSASSA in the CSA Optional Features List (CSAOPFL) addresses the SSA address list.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHSSADS | STATIC STORAGE AREA ADDRESS LIST |
| (0) | ADDRESS | 4 | SSACPI | CPI static storage address |
| (4) | ADDRESS | 4 | SSAAITM | AITM static storage address |
| (8) | ADDRESS | 4 | SSAPRM | Partner Manager static storage address |
| (C) | ADDRESS | 4 | | Reserved |
| (10) | ADDRESS | 4 | SSADLI | DLP PARAMETER AREA & DFHDLI STORAGE ADDRESS |
| (14) | ADDRESS | 4 | SSATMP | TABLE MANAGER STATIC STORAGE AREA ADDRESS |
| (18) | BITSTRING | 1 | SSAPCFLG | DFHPCPC2 static storage flag |
| | 1... | | PCSCOBGM | "X'80" Cobol getmain in progress |
| (19) | BITSTRING | 3 | | Reserved |
| (1C) | ADDRESS | 4 | SSACRL | anchor block for DFHCRL (only used during emergency restart) |
| (20) | ADDRESS | 4 | SSATSP | TEMPORARY STORAGE STATIC STORAGE AREA ADDRESS (VSAM ACB) |
| (24) | ADDRESS | 4 | SSAAPRD | APRD address of RDAB |
| (28) | ADDRESS | 4 | SSAKCP | Transaction Manager static storage addr |
| (2C) | ADDRESS | 4 | SSASKM | SUBTASK MANAGER STATIC STORAGE ADDR |
| (30) | ADDRESS | 4 | SSASZ | Front-End Programming Interface Static |
| (34) | ADDRESS | 4 | SSADB2 | CICS/DB2 static storage |
| (38) | ADDRESS | 4 | SSARCP | RECOVERY CONTROL STATIC STORAGE ADDR |
| (3C) | ADDRESS | 4 | | Reserved |
| (40) | ADDRESS | 4 | SSAXRF | XRF static storage area addr |
| (44) | ADDRESS | 4 | SSAXRP | XRP static storage area addr (storage allocated by XRA) |
| (48) | ADDRESS | 4 | | Reserved |
| (4C) | ADDRESS | 4 | SSAICP | ICP static storage area addr |
| (50) | ADDRESS | 4 | SSAAPDM | DFHAPDM's static storage area addr |
| (54) | FULLWORD | 4 | SSASTOP | END STOPPER |
| | .1.1 1... | | SSALEN | "-DFHSSADS" LENGTH OF STATIC AREA ADDRESS LIST |

STG Statistics domain statistics

CONTROL BLOCK NAME = DFHSTGDS
 DESCRIPTIVE NAME = CICS Statistics domain statistics
 FUNCTION =
 This DSECT describes the statistics maintained by the statistics domain on its own operation.
 This control block belongs to the Statistics Domain. There is a single instance of the control block which is copied to SMF at each statistics interval.
 LIFETIME =
 This control block is created when the Statistics Domain is initialized and is destroyed when the domain is shut down.
 STORAGE CLASS =
 LOCATION =
 This control block is part of the Statistics domain anchor block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = none
 GLOBAL VARIABLES (Macro pass) = none

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------------|
| (0) | | | DFHSTGDS | Statistics domain statistics |
| (0) | FULLWORD | 4 | (0) | Reserved |
| (0) | HALFWORD | 2 | STGLEN | Length of data |
| | .1.. .1. | | STGIDE | "66" Stats domain id mask |
| (2) | ADDRESS | 2 | STGID | Stats domain id |
| |1 | | STGVERS | "X'01" Stats version number mask |
| (4) | CHARACTER | 1 | STGDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | STGNC | Number of collections |
| (C) | FULLWORD | 4 | STGSMFW | Number of SMF writes |
| (10) | FULLWORD | 4 | STGLDW | Length of data written |
| | ...1 .1.. | | STGEND | "" |
| | ...1 .1.. | | STGCLEN | ""-STGLEN" Length of stats |

STI Statistics record identifiers

CONTROL BLOCK NAME = DFHSTIDS
 DESCRIPTIVE NAME = CICS Statistics Record Identifiers.
 FUNCTION = This copybook contains the common 5 byte header for statistics records and a list (as equates) of all the valid statistics record ids.
 This copybook is provided for use by both CICS and user transactions to identify the source of a statistics record appearing at the Stats Exit, the SMF dataset or the EXEC API.
 LIFETIME = There is no storage dedicated to this copybook
 STORAGE CLASS = n/a
 LOCATION = n/a
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|--|
| (0) | | | DFHSTIDS | Stats record header |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | STILEN | Length of the record |
| (2) | ADDRESS | 2 | STID | Stats id |
| (4) | CHARACTER | 1 | STIVERS | Stats record version |
| |1. | | STISMDSA | "2" Storage manager DSA id |
| |1.1 | | STISMD | "5" Storage mgr domain subpool id |
| |11. | | STISMT | "6" Storage manager task subpool id |
| | 1.1. | | STIXMG | "10" Transaction manager (Globals) id |
| | 1.11 | | STIXMR | "11" Transaction manager (Trans) id |
| | 11.. | | STIXMC | "12" Transaction manager (Tclass) id |
| | ...1 | | STIFEPIP | "16" FEPI pool id |
| | ...1 ...1 | | STIFEPIP | "17" FEPI connection id |
| | ...1 .1. | | STIFEPIP | "18" FEPI target id |
| | ...1 .1.1 | | STIVT | "21" VTAM stats id |
| | ...1 .111 | | STIPAUTO | "23" Program Autoinstall id |
| | ...1 1... | | STIAUTO | "24" Terminal Autoinstall stats id |
| | ...1 1.1 | | STILDR | "25" Loader (Resid) id |
| | ...1 11.. | | STIDBUSS | "28" DBCTL USS id |
| | ...1 111. | | STILDG | "30" Loader (Globals) id |
| | ..1. .1. | | STITCR | "34" Terminal control (Resid) id |
| | ..1. .111 | | STILSRR | "39" LSRPOOL pool stats (resid) id |
| | ..1. 1... | | STILSRFR | "40" LSRPOOL File stats (by file) id |
| | ..1. 1.1. | | STITDQR | "42" TDQUEUE (Resid) id |
| | ..1. 11.1 | | STITDQG | "45" TDQUEUE (Globals) id |
| | ..11 | | STITSQ | "48" TSQUEUE stats id |
| | ..11 .1.. | | STICONS | "52" ISC/IRC system entry (resid) id |
| | ..11 .11. | | STICONS | "54" ISC connection - System Security |
| | ..11 .111 | | STIDS | "55" Dispatcher stats id |
| | ..11 11.1 | | STIUSG | "61" User Domain stats id |
| | ..11 1111 | | STITM | "63" Table manager stats id |
| | ..1. .1. | | STIST | "66" Stats stats id |
| | ..1. .11 | | STIFCR | "67" File Control (Resid) id |
| | ..1. 11.. | | STICONMR | "76" ISC/IRC mode entry (resid) id |
| | ..1.1 ...1 | | STIM | "81" Monitoring stats (Global) id |
| | ..1.1 .1. | | STIMNR | "82" Monitoring stats (Resid) id |
| | ..1.1 .1.1 | | STITDR | "85" Transaction dump (Resid) id |
| | ..1.1 .111 | | STITDG | "87" Transaction dump (Global) id |
| | ..1.1 1... | | STISDR | "88" System dump (Resid) id |
| | ..1.1 1.1. | | STISDG | "90" System dump (Global) id |
| | ..1.1 11.1 | | STILGR | "93" Logger stats (Resource) id |
| | ..1.1 111. | | STILGS | "94" Logstream stats (Resource) id |
| | ..11. ...1 | | STINQG | "97" ENQ Manager stats (Global) id |
| | ..11. .11 | | STIRMG | "99" Recovery Mgr stats (Global) id |
| | ..11. .11. | | STID2G | "102" DB2 Connection stats (Global) id |
| | ..11. .111 | | STID2R | "103" DB2 Entry stats (Resource) id |
| | ..11. 11.. | | STISOR | "108" TCPIP Services (Resource) id |
| |1.1 | | STIEND | ** |
| |1.1 | | STICLEN | ** -STILEN" Length of DSECT |

TACB Transaction abend control block

CONTROL BLOCK NAME = DFHTACBS
 DESCRIPTIVE NAME = CICS Transaction Abend Control Block
 FUNCTION =
 A Transaction Abend Control Block is built, usually by DFHPCP, when abend processing is performed. It contains details of the abend, such as the abend code. The address of the latest TACB for a task is in TCAPCAB in the TCA. If multiple abends occur, one TACB per abend is built. TACBs are chained together using ABNDNXT in the TACB. Note that for ASRA, ASRB, ASRD and AICA abends the TACB is built by DFHSRP, so we can capture (1) the PSW and registers at the time of the program check, MVS abend or runaway, and (2) the diagnostics provided by DFHSRP such as storage hit by 0C4, and offset of program check or MVS abend in program. Note that abends in a remote DPL server program are re-issued with the same abend code on the local system. The PSW and registers are not valid for such re-issued abends, and the TACB contains a REMOTE eyecatcher to indicate this. The TACB for such abends is built by DFHEPC.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--|
| (0) | STRUCTURE | 277 | DFHABND | Transaction Abend Control Block |
| (0) | CHARACTER | 8 | * | Eyecatcher information |
| (0) | HALFWORD | 2 | ABNDSAAC | - Length of dsect. |
| (2) | CHARACTER | 1 | ABNDSAAS | - Arrow(>) |
| (3) | CHARACTER | 5 | ABNDSAAL | - DSECT name ('TACB') |
| (8) | ADDRESS | 4 | ABNDNXT | A(NEXT TACB) OR 0 |
| (C) | HALFWORD | 2 | * | RESERVED |
| (E) | CHARACTER | 2 | ABNDFLGS | |
| (E) | CHARACTER | 1 | ABNDFLG1 | - VALID FIELDS |
| | | | ABNDREQI | - REQUEST ID |
| | | | ABNDNXTI | - NEXT TACB |
| | | | ABNDRSRI | - FAILING RESOURCE |
| | | | ABNDPRGI | - FAILING PROGRAM |
| | | | ABNDREGI | - ABEND REGISTERS |
| | | | ABNDSNSI | - SENSE BYTES |
| | | | ABNDMSGI | - A(MESSAGE) |
| | | | ABNDSYSI | - SYSID |
| (F) | CHARACTER | 1 | ABNDFLG2 | - VALID FIELDS |
| | | | ABNDRABD | - LOWER LEVEL ABEND |
| | | | ABNDCDE | - ABEND CODE SET |
| | | | ABNDOCDE | - OP SYS AB CODE SET |
| | | | ABNDREMT | - RE-ISSUING AN ABEND THAT ORIGINATED IN DPL SERVER PROGRAM |
| | | | ABNDIGNORE | - IGNORE HANDLES |
| | | | ABNDSTART | - ABEND RECORD COMPLETE, START_ABEND ISSUED |
| | | | ABNDMDMP | - DUMP REQUESTED |
| | | | ABNDEDTB | - DTB ABEND |
| (10) | CHARACTER | 8 | ABNDNAME | 'DFHTACB' EYECATCHER |
| (18) | CHARACTER | 4 | ABNDSTAT | STATUS FLAGS |
| (18) | BITSTRING | 1 | ABNDSYAB | - CONTENTS OF TCASYABI |
| (19) | BITSTRING | 2 | ABNDPCTR | - CONTENTS OF TCAPCTR |
| (1B) | BITSTRING | 1 | ABNDCAXI | - CONTENTS OF TCAPCAXI |
| (1C) | CHARACTER | 4 | ABNDCODE | ABEND CODE |
| (20) | CHARACTER | 8 | ABNDPRG | FAILING PROGRAM |
| (20) | CHARACTER | 8 | ABNDPGM | - ALIAS |
| (28) | CHARACTER | 4 | ABNDREQ | REQUEST ID |
| (2C) | CHARACTER | 8 | ABNDRSRC | FAILING RESOURCE |
| (34) | CHARACTER | 4 | ABNDSYST | IF ABNDREMT IS SET, THIS FIELD CONTAINS THE SYSID OF THE SYSTEM FROM WHICH THE DPL SERVER ABEND WAS RECEIVED |
| (38) | ADDRESS | 4 | ABNDSETX | SETXIT FLAGS/ADDRESS |
| (3C) | CHARACTER | 4 | ABNDSENS | SENSE BYTES |
| (3C) | BITSTRING | 1 | ABNDSSN1 | - SYSTEM SENSE 1 |
| (3D) | BITSTRING | 1 | ABNDSSN2 | - SYSTEM SENSE 2 |
| (3E) | BITSTRING | 1 | ABNDUSN1 | - USER SENSE 1 |
| (3F) | BITSTRING | 1 | ABNDUSN2 | - USER SENSE 2 |
| (40) | CHARACTER | 6 | * | ERROR MESSAGE DATA |
| (40) | ADDRESS | 4 | ABNDAMSG | - A(ERROR MESSAGE) |
| (44) | HALFWORD | 2 | ABNDMLN | - L(ERROR MESSAGE) |
| (46) | CHARACTER | 2 | * | EXTRA ASRA/ASRB INFO |
| (46) | UNSIGNED | 1 | ABNDKEY | - EXECUTION KEY N AT ABEND, HELD IN FORM X'N0'. (ASRA AND ASRB) |
| (47) | UNSIGNED | 1 | ABNDSTG | - STORAGE TYPE HIT BY 0C4. (ASRA ONLY) |
| (48) | CHARACTER | 4 | ABNDOCOD | OP SYS ABEND CODE |
| (4C) | FULLWORD | 4 | ABNDOFF | OFFSET OF ERROR IN FAILING PROGRAM. 'FFFFFFF' MEANS ERROR OCCURRED OUTSIDE PROG. (ASRA, ASRB, ASRD) |
| (50) | CHARACTER | 88 | * | |
| (50) | CHARACTER | 8 | ABNDPSNM | 'REGS&PSW' EYECATCHER |
| (58) | CHARACTER | 64 | ABNDGPRS | GP REGISTERS 0 - 15 ON ENTRY TO ABEND |
| (58) | CHARACTER | 64 | ABNDREGS | |
| (58) | FULLWORD | 4 | ABNDREGX (0 15) | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|--|
| (98) | CHARACTER | 8 | ABNDPSW | EC MODE PSW ON ENTRY TO ABEND (ASRA, ASRB, ASRD, AICA) |
| (A0) | CHARACTER | 8 | ABNDINT | ADDITIONAL EC MODE INFO (ASRA, ASRB, ASRD, AICA) |
| (A8) | CHARACTER | 32 | ABNDFPRS | FP REGISTERS 0,2,4,6 (ASRA, ASRB, ASRD, AICA) |
| (A8) | CHARACTER | 8 | ABNDFPR0 | - FP REGISTER 0 |
| (B0) | CHARACTER | 8 | ABNDFPR2 | - FP REGISTER 2 |
| (B8) | CHARACTER | 8 | ABNDFPR4 | - FP REGISTER 4 |
| (C0) | CHARACTER | 8 | ABNDFPR6 | - FP REGISTER 6 |
| (C8) | CHARACTER | 64 | ABNDACRS | Access registers |
| (C8) | FULLWORD | 4 | ABNDACREGS (0 15) | |
| (108) | CHARACTER | 4 | ABNDALET | ALET at time of abend |
| (10C) | CHARACTER | 8 | ABNDSTOKEN | STOKEN at time of abend * |
| (114) | CHARACTER | 1 | ABNDSPACE | space (basespace/subspace * at time of abend as passed on ABAB interface |
| (115) | CHARACTER | | ABNDMSGT | MESSAGE TEXT (IF ANY) |

Constants

| Len | Type | Value | Name | Description |
|----------------|---------|-------|-------------|-------------------|
| 1 | DECIMAL | 0 | ABNDNOHIT | No hit or not 0C4 |
| 1 | DECIMAL | 1 | ABNDCDSA | CDSA hit |
| 1 | DECIMAL | 2 | ABNDECDSA | ECDSA hit |
| 1 | DECIMAL | 3 | ABNDERDSA | ERDSA hit |
| 1 | DECIMAL | 4 | ABNDRDSA | RDSA hit |
| 1 | DECIMAL | 5 | ABNDEDSA | EUDSA hit |
| 1 | DECIMAL | 6 | ABNDUDSA | UDSA hit |
| ABNDKEY values | | | | |
| 1 | DECIMAL | 144 | ABNDUSERKEY | USER key x'90' |
| 1 | DECIMAL | 128 | ABNDCICSKEY | CICS key x'80' |

TACLE Terminal abnormal condition line entry

CONTROL BLOCK NAME = DFHTCTLE
 DESCRIPTIVE NAME = CICS Terminal Abnormal Condition Line Entry
 FUNCTION =
 Terminal Control Table Line Entry Prefix.

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|--------------|-----|------------|--|
| (0) | | | DFHTCTLE | DUMMY SECTION - LINE PREFIX |
| (0) | FULLWORD | 4 | TCTLEPSA | Storage accounting area |
| (4) | FULLWORD | 4 | TCTLEPCH | Error chain pointer |
| TERMINAL ERROR CODES | | | | |
| (8) | CHARACTER | 1 | TCTLEPFL | Error flags |
| |1 | | TCECTIO | "X'01" Terminal I/O error code |
| | 1... ..1 | | TCEMCTL | "X'81" Message too long error code |
| | 1... ..1. | | TCEMCTCT | "X'84" TCT search error code |
| | 1... ..1.1 | | TCEMCROT | "X'85" Output rejected - read only |
| | 1... ..1.1.1 | | TCEMCUI | "X'87" Unsolicited input on control UN |
| | 1... ..1... | | TCEMCIER | "X'88" Input event rejected error code |
| | 1... ..11.. | | TCEMCOER | "X'8C" Output event rejected code |
| | 1... ..11.1 | | TCEMCOLZ | "X'8D" Output length of zero error |
| | 1... ..111. | | TCEMCNOA | "X'8E" No output area error code |
| | 1... ..1111 | | TCEMCOAE | "X'8F" Output area exceeded error code |
| | 1..1 ..1.. | | TCEMCUC | "X'94" Unit check |
| | 1..1 ..1.1 | | TCEMCUCS | "X'95" Unit check - should not occur |
| | 1..1 ..1.1. | | TCEMCUE | "X'96" Unit exception |
| | 1..1 ..1.1.1 | | TCEMCUES | "X'97" Unit exception should not occur |
| | 1..1 ..1.1.1 | | TCEMCUDT | "X'99" Undetermined unit error |
| | 1..1 ..1111 | | TCEMIDR | "X'9F" Invalid DEST -- TCAM return |
| (9) | CHARACTER | 1 | TCTLEPF2 | Flags 2 |
| |1 | | TCEIDTD | "X'01" Dummy term displacement indicator |
| |1. | | TCEIRE | "X'02" Repeating error indicator |
| |1.. | | TACCUER | "X'04" Control unit error flag |
| |1... | | TACNPRO | "X'08" Non-process error flag |
| |1.... | | TCTECHLE | "X'10" Error chain last entry flag |
| |1.... | | TACNTEP | "X'20" Last TEP call indicator |
| (A) | HALFWORD | 2 | | Reserved |
| (C) | FULLWORD | 4 | TCTLEPTE | Terminal entry address |
| |1.... | | TCTLEPRE | "-DFHTCTLE" Prefix length |

TCA Task control area

CONTROL BLOCK NAME = DFHTCAPS
 DESCRIPTIVE NAME = CICS TASK CONTROL AREA
 FUNCTION = The DFHTCAPS copybook declares the structure for the TASK CONTROL AREA (TCA). The TCA is the primary control block used by CICS to represent a transaction within AP domain.
 The TCA is a single area of storage described by structure DFHUSTCA. However, it is also possible to access the TCA as two separate structures, DFHUSTCA (User area) and DFHTCADY (System area). Field TCASYAA in DFHUSTCA contains the address of DFHTCADY, for this purpose.
 When reading code that deals with TCA fields, it is important to know which method of access is used.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = COPY
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = NOT APPLICABLE
 : and REMOVE TCAASRD
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE
 The following field forms part of the Product-Sensitive Programming Interface:
 TCAICTR

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 776 | DFHUSTCA | |
| TASK CONTROL AREA | | | | |
| (0) | ADDRESS | 4 | TCASYAA | T C A SYSTEM AREA ADDRESS |
| (4) | BITSTRING | 1 | TCAXMSRF | XM secondary request flags * |
| | 1... .. | | TCAENQ31 | 1 - ENQ arg is above the line * 0 - ENQ arg is below the line |
| | .1.. .. | | TCAENQTA | 1 - MAXLIFETIME=TASK 0 - MAXLIFETIME=LUW |
| (5) | UNSIGNED | 1 | TCATCQL4 | ENQ arg len (31 bit args) |
| (5) | UNSIGNED | 1 | TCATCQLN | ENQ arg len (24 bit args) |
| (6) | UNSIGNED | 1 | TCAGFLG1 | TCA general flag1 |
| | 1... .. | | TCAACPAC | DFHACP active for WEB |
| | .111 1111 | | * | Reserved |
| (7) | BITSTRING | 1 | TCAFCI | facility control indicator * |
| | 111. | | * | Reserved |
| | ...1 | | TCAFCID | AID FACILITY MASK. |
| | 1... | | TCAFCDM | DESTINATION CONTROL TABLE |
| |1.. | | TCAFICM | NON-TERMINAL FACILITY MASK * |
| |1. | | TCAFICM | K C P MACRO FILE MASK |
| |1 | | TCAFCTRM | TERMINAL FACILITY MASK |
| (8) | ADDRESS | 4 | TCAFCAAA | FACILITY CONTROL AREA ADDRESS, CONTENTS RELATED TO THE SYSTEM OR TASK-DEPENDENT FACILITY ASSOCIATED WITH THE TASK |
| (8) | ADDRESS | 4 | TCAFCPTR | facility control area address * |
| (C) | ADDRESS | 4 | TCACSOAD | A(CSA OPTIONAL FEATURES LIST) |
| (10) | ADDRESS | 4 | TCALCDSA | A(CURRENT KERNEL STACK ENTRY) |
| TASK CONTROL SECTION | | | | |
| (14) | CHARACTER | | TCAKCPBA | |
| (14) | CHARACTER | 4 | TCATCTFA | TCTTE ADDRESS,DCI=TERMINAL |
| (14) | CHARACTER | 4 | TCATCEA | TASK CONTROL EVENT CONTROL BLOCK ADDRESS |
| (14) | ADDRESS | 4 | TCATCQA4 | ENQ arg addr (31 bit) |
| (14) | ADDRESS | 4 | TCATCQA | ENQ arg addr (24 bit) |
| (18) | CHARACTER | 1 | TCATCEI | TASK CONTROL EVENT CONTROL INDICATOR |
| (18) | BITSTRING | 1 | TCATCDC | TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED |
| (19) | BITSTRING | 1 | TCATCTR | TASK CONTROL TYPE OF REQUEST |
| | 1... .. | | * | TASK TERMINATION MASK |
| | .1.. .. | | * | TASK WAIT MASK |
| | ..1. | | * | Reserved |
| | ...1 | | TCATOM | Attach request |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | * | Reserved |
| (1A) | CHARACTER | 1 | * | Reserved |
| (1B) | CHARACTER | 1 | TCAPCABR | PROGRAM CONTROL TASK ABEND REQUEST |
| (1B) | BITSTRING | 1 | TCAPCDMP | PROGRAM CONTROL TASK DUMPED INDICATOR |
| (1C) | BITSTRING | 1 | TCATCCFG | TERMINAL CONTROL COMPATABILITY CONTROL COMPATABILITY FLAGS AND OTHER USES |
| (1C) | BITSTRING | 1 | TCAPURGI | TASK PURGE INDICATOR |
| | 1... .. | | * | Reserved (was TCATPURG) |
| | .1.. | | TCASPURG | system purgeable mask |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| | .1. | | TCACTIND | |
| | ...1 | | TCACTFBF | FULL BUFFER FLAG |
| | 1... | | TCAENQRR | RESUME required (see ENQ code) * |
| |1.. | | TCAJOURN | Journaling in control |
| |1.. | | * | Reserved (was TCASTGFZ) |
| |1 | | TCACTCMT | COMPATIBLE MODE TASK MASK INDICATOR |
| (1D) | CHARACTER | 2 | * | reserved |
| (1F) | BITSTRING | 1 | TCASYABI | SYSTEM ABEND REQUEST INDICATOR |
| | 1... | | TCAABIPM | ABEND IN PROGRESS MASK used during task termination |
| | .1.. | | TCAABREC | ABEND RECOVERY IN PROGRESS * used to detect looping abends |
| | .1. | | TCAABDPM | ABEND DUMP IN PROGRESS MASK |
| | ...1 | | TCAABRAM | RECURSIVE ABEND MASK |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1.. | | TCAA0C4 | HANDLING 0C4 ABEND |
| |1 | | * | Reserved |
| Miscellaneous | | | | |
| (20) | CHARACTER | | * | |
| (20) | CHARACTER | 4 | * | Reserved |
| (24) | CHARACTER | 4 | TCATXNO | XM supplied txn number |
| (28) | CHARACTER | 12 | * | reserved |
| (34) | FULLWORD | 4 | TCARTNSV | INTERNAL RETURN REGISTER SAVE AREA |
| (38) | CHARACTER | | TCAKCPFA | FINAL ADDRESS OF KCP AREA. |
| STORAGE CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCUSC | | | | |
| DESCRIPTIVE NAME = CICS DFHSC USER OVERLAY OF THE DFHTCA | | | | |
| (38) | ADDRESS | 4 | TCASCSA | ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION |
| (3C) | BITSTRING | 1 | TCASCTR | STORAGE CONTROL TYPE OF REQUEST |
| | 1... | | TCASCGET | Getmain request |
| | .1.. | | TCASCFRE | Freemain request |
| | .1. | | TCASCREL | RELEASE=ALL |
| | ...1 1... | | * | Reserved |
| |1.. | | TCASCUSR | User storage freemain |
| |11 | | * | Reserved |
| (3D) | CHARACTER | 1 | TCASCIB | VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC. |
| (3E) | UNSIGNED | 2 | TCASCNB | 16-BIT UNSIGNED BINARY INTEGER REPRESENTING NUMBER OF BYTES REQUESTED FOR NON-PROGRAM STORAGE OR NUMBER OF DOUBLEWORDS REQUESTED FOR PROGRAM STORAGE. |
| REGISTER STORAGE | | | | |
| (40) | ADDRESS | 4 | TCASCRS (8) | STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5 |
| COMMON CONTROL | | | | |
| (60) | FULLWORD | 4 | TCACCCA (9) | common control communication area used by some AP Domain modules as a parameter area * |
| (84) | FULLWORD | 4 | TCACCRS (14) | common control register save area used by some AP Domain modules. |
| (BC) | HALFWORD | 2 | TCACCSV1 | SAVE AREA FOR BYTES OVERLAID BY DFHDC |
| (BE) | HALFWORD | 2 | * | Reserved |
| (C0) | FULLWORD | 4 | TCACCSV2 | SAVE AREA FOR BYTES OVERLAID BY DUMP CODE |
| (C4) | CHARACTER | | TCACCEA | COMMON CONTROL ENDING ADDRESS |
| TRACE | | | | |
| CONTROL BLOCK NAME = DFHTCUTR | | | | |
| DESCRIPTIVE NAME = CICS DFHTR USER OVERLAY OF THE DFHTCA | | | | |
| (C4) | CHARACTER | 8 | TCATRF | Data area 1 and 2 |
| (C4) | FULLWORD | 4 | TCATRF1 | TRACE ENTRY DATA AREA 1 |
| (C8) | FULLWORD | 4 | TCATRF2 | TRACE ENTRY DATA AREA 2 |
| (CC) | BITSTRING | 1 | TCATRTR | TYPE OF TRACE REQUEST |
| | 11.. | | TCATRET | Entry type '00' Make trace entry '01' Turn trace off '10' Turn trace on '11' Extended interface |
| | .1. | | TCATRSM | System macro request |
| | ...1 | | * | Reserved |
| | 1111 | | TCATRST | Request sub-type X'F' Reserved X'E' Reserved X'D' Trace on/off X'C' Reserved X'B' Reserved X'A' Reserved X'9' Reserved |
| | 1... | | * | X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace |
| |1.. | | TCATRSYS | X'4' System trace X'3' LIFO enter trace |
| |1.. | | TCATRUSE | X'2' User trace |
| |1 | | * | X'1' Reserved X'0' Reserved |
| (CD) | BITSTRING | 1 | TCATRID | TRACE ENTRY IDENTIFICATION |
| (CE) | BITSTRING | 1 | TCATRMF | TCA TRACE CONTROL |
| | 1... | | TCATRSI | User trace for single task |
| | .111 1111 | | * | Reserved |
| (CF) | BITSTRING | 1 | TCATRID1 | TRACE ENTRY I.D.EXTENSION |
| (D0) | ADDRESS | 4 | TCAEISTG | COMMAND LEVEL ASSEMBLER EXEC STORAGE |
| (D4) | ADDRESS | 4 | TCAJCAAD | JOURNAL CONTROL AREA (JCA) ADDRESS |
| (D8) | FULLWORD | 4 | TCAATAC | ABNORMAL TERMINATION ABEND CODE |
| (DC) | ADDRESS | 4 | TCACSAAD | CSA address |
| (E0) | CHARACTER | 12 | * | Reserved |
| (EC) | ADDRESS | 4 | TCATWAAD | Address of TWA in User storage * |
| (F0) | FULLWORD | 4 | TCATWALN | Length of TWA |
| (F4) | ADDRESS | 4 | TCAPCMEA | XPCTA, XPCHAIR, XPCFTCH modified address |
| (F8) | BITSTRING | 1 | TCAPCRFL | XPCTA retry execution key |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (F9) | BITSTRING | 1 | TCAPCSTG | Storage hit by ASRA 0C4 |
| (FA) | BITSTRING | 1 | TCAPCARO | XSRAB abend recovery option |
| (FB) | CHARACTER | 1 | * | Reserved |
| (FC) | ADDRESS | 4 | TCAPRUWA | APLI ruwa pool |
| (100) | CHARACTER | | * | End of User area |
| (100) | CHARACTER | | DFHTCADY | |
| SYSTEM AREA | | | | |
| (100) | CHARACTER | | DFHSYTCA | |
| (100) | CHARACTER | 8 | * | Reserved |
| (108) | ADDRESS | 4 | * | Reserved |
| (10C) | ADDRESS | 4 | * | Reserved |
| TASK CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSKC | | | | |
| DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA | | | | |
| (110) | CHARACTER | 4 | TCATXNUM | TXN MGR transaction num |
| (110) | BITSTRING | 1 | * | X'00' |
| (111) | CHARACTER | 3 | TCAKCTTA | TASK IDENTIFICATION NUM |
| (114) | CHARACTER | 8 | TCASPOOL | TCA subpool id |
| (11C) | ADDRESS | 4 | TCATCPC | PROGRAM CONTROL TABLE ENTRY ADDRESS |
| (120) | ADDRESS | 4 | TCADCAA | TQE address |
| (120) | ADDRESS | 4 | TCATQEA | TQE ADDRESS |
| (124) | CHARACTER | 4 | * | Reserved |
| (128) | ADDRESS | 4 | TCARSTSK | RESUME TASK'S T C A ADDRESS |
| (12C) | ADDRESS | 4 | TCADWLBA | DEFERRED WORK LIST BEGIN ADDRESS |
| INTERVAL CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSIC | | | | |
| DESCRIPTIVE NAME = CICS DFHIC System Overlay of the DFHTCA | | | | |
| INTERVAL CONTROL SECTION | | | | |
| (130) | ADDRESS | 4 | TCAICEAD | INTERVAL CONTROL ELEMENT ADDRESS |
| (134) | ADDRESS | 4 | * | Reserved |
| PROGRAM CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSPC | | | | |
| DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL | | | | |
| (138) | ADDRESS | 4 | TCAPCSA | Head of chain of PESAs used to stack ap info over a link |
| (13C) | CHARACTER | 12 | TCAPCTWA | PROGRAM CONTROL WORK AREA |
| (13C) | ADDRESS | 4 | * | Reserved |
| (140) | ADDRESS | 4 | TCAPCHS | HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS |
| TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY APPLICATION PROGRAMS TO MAKE THEM REENRANT. FOR PL/I IT IS THE CHAIN OF PL/I DSA'S (ALSO CALLED TCAPCPA) FOR COBOL IT IS THE TGT AND(FOR EXEC)WS (ALSO CALLED TCAPCCA) FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER FOR RPG IT IS THE ENTIRE PROGRAM | | | | |
| (144) | CHARACTER | 4 | TCAPCPA | PL/I ACQUIRED AREA ADDRESS |
| (144) | CHARACTER | 4 | TCAPCCA | COBOL ACQUIRED AREA ADDRESS |
| (144) | ADDRESS | 4 | TCAPCDSA | DYNAMIC STORAGE HEADER ADDRESS |
| (148) | ADDRESS | 4 | * | Reserved |
| (14C) | CHARACTER | 8 | TCAPCIPN | Name of invoking program after DPL from client |
| TRANSIENT DATA SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSTD | | | | |
| DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA | | | | |
| TRANSIENT DATA SECTION | | | | |
| (154) | ADDRESS | 4 | TCAIDAA | INTRAPARTITION DATA AREA |
| BASIC MAPPING SUPPORT | | | | |
| CONTROL BLOCK NAME = DFHTCSBM | | | | |
| DESCRIPTIVE NAME = CICS DFHBMS System Overlay of the DFHTCA | | | | |
| BASIC MAPPING SUPPORT | | | | |
| (158) | ADDRESS | 4 | TCAOSPWA | OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS) |
| (15C) | ADDRESS | 4 | * | Reserved |
| (160) | BITSTRING | 1 | * | Reserved |
| (161) | CHARACTER | 2 | * | Reserved |
| (163) | BITSTRING | 1 | TCADLII | DL/I INDICATOR |
| | 1... | | TCADLISI | DL/I SCHEDULING INITIATED |
| | .111 1111 | | * | Reserved |
| (164) | FULLWORD | 4 | * | Reserved |
| RECOVERY / RESTART SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSSP | | | | |
| DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA | | | | |
| RECOVERY / RESTART SECTION | | | | |
| (168) | BITSTRING | 1 | TCAZLUWD | TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION |
| | 1... | | TCAZAKPT | Activity keypoint |
| | .111 1111 | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (169) | BITSTRING | 1 | TCAZLUWT | TASK'S LUW STATUS |
| | 1... .. | | TCAZRDR | A READ HAS OCCURRED IN THIS LUW |
| | .1. | | TCAZRVRT | A WRITE HAS OCCURRED IN THIS LUW |
| | ..1. | | TCAZINDT | Next SHUNT is 'in-doubt' |
| | ...1 1... | | * | Reserved |
| |1.. | | TCAZDLIC | DLI-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED |
| |11 | | * | Reserved |
| (16A) | BITSTRING | 1 | TCABRPS | Rollback status |
| | 11.. | | * | Reserved |
| | ..1. | | TCABRPSR | Backout-Reqd prog state |
| | ...1 1111 | | * | Reserved |
| (16B) | CHARACTER | 1 | * | Reserved |
| (16C) | ADDRESS | 4 | TCADWASV | SAVE ADDR OF DWE CHN. |
| (170) | CHARACTER | 12 | * | Reserved |
| (17C) | CHARACTER | 4 | TCAORABC | ORIGINAL ABEND CODE |
| (17C) | CHARACTER | 4 | TCADBABC | ABEND CODE OF APPLICATION. |
| (180) | BITSTRING | 1 | TCATRTO | TERMINAL READ TIME OUT VALUE |
| (181) | BITSTRING | 1 | TCAFLAGS | MISCELLANEOUS FLAGS |
| | 1... .. | | * | Reserved |
| | .1. | | TCANOTRC | SUPPRESS TRACE FOR TASK |
| | ..1. | | * | Reserved |
| | ...1 | | TCASZUSE | FEPI Access in Task |
| | 1... | | * | Reserved |
| |1.. | | TCAUKCAL | MAKE CALL IN USER KEY |
| |1. | | * | Reserved |
| |1 | | TCAJVMXT | system.exit from JVM |
| (182) | BITSTRING | 1 | TCASCS | SCREEN SIZE SELECTION ETC |
| | 1... .. | | TCASFSTL | FAST LINK to DFHMIRS |
| | .111 | | * | Reserved |
| | 1... | | TCASCSA | ALTERNATE SCREEN SIZE |
| |1.. | | * | Reserved |
| |1 | | TCAPRTCM | BMS TEXT PRINTER COMPATIBILITY |
| |1. | | TCATCABT | DFHACP abending flag |
| (183) | BITSTRING | 1 | TCAIRTC | INTER REGION RETURN CODE |
| (184) | ADDRESS | 4 | TCARLB | Address of TMP lock block |
| (188) | ADDRESS | 4 | TCAEMSSV | SAVE AREA FOR DFHEMS |
| (18C) | BITSTRING | 1 | * | Reserved |
| (18D) | BITSTRING | 1 | * | Reserved |
| (18E) | CHARACTER | 1 | * | Reserved |
| (18F) | BITSTRING | 1 | TCAEISFL | EXEC CICS I/F FLAG |
| (190) | ADDRESS | 4 | TCAEISA | EXEC CICS I/F STRUCT ADDR |
| (194) | ADDRESS | 4 | TCACAAAD | LE/370 Anchor Address |
| (198) | ADDRESS | 4 | TCACEEPT | LE/370 Parameter List Address * |
| (19C) | ADDRESS | 4 | TCAREGPT | EXEC CICS registers |
| (1A0) | ADDRESS | 4 | TCAIIRE | Ill task return addr |
| (1A4) | ADDRESS | 4 | TCALTGET | LIFO PUSH ROUTINE(=CSALFNAC) * SEE...TCALTFRE BELOW. |
| (1A8) | FULLWORD | 4 | * | Reserved |
| (1AC) | FULLWORD | 4 | * | Reserved |
| (1B0) | CHARACTER | 4 | TCAKCTTI | Assigned transaction id |
| (1B4) | ADDRESS | 4 | TCATCUCN | TCTTE USER CHAIN FIELD. |
| (1B8) | ADDRESS | 4 | * | Reserved |
| (1BC) | ADDRESS | 4 | TCAXFS23 | XFSTG FOR TRANSFORMATION 2 AND 3 |
| (1C0) | ADDRESS | 4 | TCARSBA | ADDRESS OF REMOTE SCHEDULING BLOCK |
| (1C4) | CHARACTER | 4 | TCAKCOID | ID WHICH ORIGINATED TASK |
| (1C8) | BITSTRING | 1 | TCADLIST | DLI STATUS INFORMATION |
| | 1... .. | | TCAUIBAQ | UIB ACQUIRED |
| | .111 | | * | Reserved |
| | 1... | | TCAEXDLI | EXEC DLI |
| |1.. | | * | Reserved |
| |1. | | TCAREMOT | REMOTE |
| |1 | | TCADBCTL | DBCTL |
| (1C9) | CHARACTER | 2 | TCAACMSG | DFHACP MSG NUMBER |
| (1CB) | BITSTRING | 1 | TCAAPFLG | AP DOMAIN FLAGS @BA81573C |
| | 1... .. | | TCARSREQ | RESUME REQUIRED |
| | .1. | | TCAXMSOT | APXMI should invoke APXM |
| | ..1. | | TCAROUTE | Transaction route attach has been sent to a remote CICS system |
| | ...1 1111 | | * | Reserved |
| (1CC) | CHARACTER | 2 | * | Reserved |
| (1CE) | BITSTRING | 1 | * | Reserved |
| (1CF) | BITSTRING | 1 | TCAAAM | APPLICATION ADDRESSING MODE NB BITS 1 - 7 OF BYTE TCAAAM MUST BE ZERO |
| | 1... .. | | TCAAAM31 | 31-BIT MODE |
| (1D0) | ADDRESS | 4 | * | Reserved |
| (1D4) | CHARACTER | 4 | TCACRABC | CURRENT ABEND CODE |
| (1D4) | CHARACTER | 4 | TCAPCABC | CURRENT ABEND CODE |
| (1D8) | CHARACTER | 3 | * | Reserved |
| (1DB) | CHARACTER | 1 | TCAIACB | ABEND CONTROL BLOCK STATUS * |
| (1DC) | ADDRESS | 4 | TCAPCAB | ABEND CONTROL BLOCK ADDRESS |
| (1E0) | CHARACTER | 4 | TCASENSE | SENSE FIELDS |
| (1E0) | CHARACTER | 2 | TCASS1 | SYSTEM SENSE |
| (1E2) | CHARACTER | 2 | TCAUS1 | USER MSG NO. |
| (1E4) | ADDRESS | 4 | TCATIEBA | TIE CHAIN FOR API ROUTER |
| (1E8) | ADDRESS | 4 | TCADMTLA | ADDRESS OF CSD MANAGER TASK LOCAL STORAGE |
| (1EC) | FULLWORD | 4 | TCATRRC | Transaction Routing RC |
| (1F0) | CHARACTER | 8 | * | Reserved |
| (1F8) | ADDRESS | 4 | TCAJVMTK | Token for JVM instance |
| (1FC) | ADDRESS | 4 | TCAPCXA | PROGRAM LOAD POINT ADDRESS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (200) | CHARACTER | 8 | TCATRRSN | RESOURCE NAME |
| BASIC MAPPING SUPPORT FAST PATH FIELDS. | | | | |
| (208) | CHARACTER | 8 | TCABMMSN | SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET |
| (210) | ADDRESS | 4 | TCABMMSA | ADDRESS OF MOST RECENT BMS MAPSET |
| (214) | CHARACTER | 1 | TCABMMW | WIDTH OF MOST RECENT BMS MAP |
| (215) | CHARACTER | 1 | TCABMMH | HEIGHT OF MOST RECENT BMS MAP |
| (216) | CHARACTER | 1 | TCABMMC | COLUMN POSITION MOST RECENT BMS MAP |
| (217) | CHARACTER | 1 | TCABMML | LINE POSITION MOST RECENT BMS MAP |
| LU6.2 INFORMATION | | | | |
| (218) | ADDRESS | 4 | TCAALUCX | ADDRESS OF LU6.2 EXTENSION |
| (21C) | ADDRESS | 4 | * | Reserved |
| (220) | CHARACTER | 4 | * | Reserved |
| (224) | FULLWORD | 4 | TCATMRLP | TMP read lock list addr. |
| (228) | ADDRESS | 4 | * | Reserved |
| (22C) | ADDRESS | 4 | * | Reserved |
| (230) | ADDRESS | 4 | TCALTFRE | LIFO POP ROUTINE ADDRESS = CSALFXAC SEE...TCALTGET ABOVE. |
| (234) | CHARACTER | 4 | TCAICREQ | REQID from an IC START |
| TASK CONTROL - TABLE MANAGER INTERFACE | | | | |
| (238) | BITSTRING | 1 | TCAALFLG | Flag byte used by DFHALP |
| | 1... .. | | TCAALRES | A RESUME is required |
| | .111 1111 | | * | Reserved |
| (239) | CHARACTER | 3 | * | Reserved |
| (23C) | ADDRESS | 4 | TCADOMPM | USED as plist addr |
| (240) | CHARACTER | 8 | * | Reserved |
| (248) | FULLWORD | 4 | * (4) | Reserved |
| (258) | CHARACTER | 8 | TCATRIDQ | TRACE ID QUALIFIER |
| (260) | ADDRESS | 4 | * | Reserved |
| (264) | FULLWORD | 4 | * | Reserved |
| (268) | CHARACTER | 28 | * | Reserved |
| (284) | ADDRESS | 4 | * | Reserved |
| TRANSIENT DATA | | | | |
| CONTROL BLOCK NAME = DFHTC2TD | | | | |
| DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA | | | | |
| TRANSIENT DATA - NEW 1.7 FIELDS | | | | |
| (288) | CHARACTER | 4 | TCADSTID | TRANSIENT DATA DESTID |
| (28C) | CHARACTER | 1 | TCATDFLG | TRANSIENT DATA FLAGS |
| (28D) | CHARACTER | 1 | * (3) | RESERVED |
| SPECIAL FEATURES | | | | |
| (290) | ADDRESS | 4 | TCAPSDBA | BASE POINTER FOR TASK PDB CHAIN FOR MVS * |
| (290) | ADDRESS | 4 | TCAPSS | BASE POINTER FOR TASK PSS CHAIN FOR DOS * |
| (290) | ADDRESS | 4 | TCAPSTBA | BASE POINTER FOR TASK PST CHAIN FOR DOS * |
| (294) | CHARACTER | 4 | * | Reserved |
| (298) | CHARACTER | 10 | * | Reserved |
| Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts | | | | |
| (2A2) | BITSTRING | 1 | TCAAPRTF | Transaction Routing parameter flags |
| | 1... .. | | TCAPRIP | Priority is to be passed to the AOR |
| | .1. | | TCASYSNP | Applid present |
| | ..1. | | TCARTST | Routable start |
| | ...1 | | TCATRMNP | Terminal netname present |
| | 1111 | | * | Reserved |
| (2A3) | UNSIGNED | 1 | TCATRPRI | Priority value to pass to AOR |
| (2A4) | ADDRESS | 4 | TCADSBA | DBC TL SCHEDULING BLOCK ADDRESS * |
| (2A8) | CHARACTER | 4 | TCADLUIB | USER INTERFACE BLOCK (UIB) * |
| (2A8) | ADDRESS | 4 | TCADLIBA | UIB ADDRESS |
| (2AC) | ADDRESS | 4 | TCAAPRET | return address for DETACH |
| (2B0) | CHARACTER | 8 | TCAPLAN | DB2 plan in use if any |
| (2B8) | CHARACTER | 8 | TCATRMNE | Terminal netname |
| (2C0) | CHARACTER | 8 | * | Reserved |
| (2C8) | CHARACTER | 4 | TCASUTOK | suspend/resume token for general AP use |
| (2CC) | ADDRESS | 4 | TCAEIUSA | A(EIUS). The user part of the EXEC CICS interface structure |
| (2D0) | CHARACTER | 8 | TCASYSNE | Applid of owning Terminal |
| CPI-C | | | | |
| (2D8) | ADDRESS | 4 | TCACPCCN | base pointer for CPC chain |
| (2DC) | ADDRESS | 4 | TCATRU24 | Head of TRUE save area |
| (2E0) | CHARACTER | 4 | * | Reserved |
| (2E4) | CHARACTER | 4 | * | Reserved |
| FIELDS FOR USE BY DFHSRP (24 BYTES) | | | | |
| (2E8) | CHARACTER | 24 | TCASRDAT | Fields for SRP use only |
| (2E8) | CHARACTER | 8 | TCASRPGM | Name of abended program |
| (2F0) | CHARACTER | 8 | TCASRPCD | Kernel error code xxx/yyyy |
| (2F0) | CHARACTER | 3 | TCASYABD | xxx |
| (2F3) | CHARACTER | 1 | * | / |
| (2F4) | CHARACTER | 4 | TCATRABD | yyyy |
| (2F8) | FULLWORD | 4 | TCASROFF | Offset of abend in program |
| (2F8) | ADDRESS | 4 | TCAKEDAD | -> Kernel error data copy |
| (2FC) | BITSTRING | 1 | TCASRFLG | SRP flag byte |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------------|
| | 1... .. | | TCASRDMP | System dump required |
| | .1.. | | TCAEMSIC | EMS deliberate prog check |
| | ..1. | | TCACELCK | LIP deliberate prog check |
| | ...1 | | TCASRPLI | PCP deliberate prog check |
| | 1... | | TCASRAP | AP0001 abend issued by DFHSRP |
| |1.. | | TCACHKAD | EDF DELIBERATE ABEND |
| |11 | | * | RESERVED SRP FLAGS |
| (2FD) | UNSIGNED | 1 | TCASRLOC | Abend in application? |
| (2FE) | BITSTRING | 2 | TCASREXC | EXC trace point id |

FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES

| | | | | |
|-------|-----------|---|----------|-------------------------|
| (300) | CHARACTER | 4 | TCARMTRA | Remote Transaction name |
| (304) | CHARACTER | 4 | TCARMSYS | Remote System name |

END OF SYSTEM AREA

| | | | | |
|-------|-----------|--|--------|---------------------------------|
| (308) | CHARACTER | | TCAEND | T C A STORAGE AREA DISPLACEMENT |
|-------|-----------|--|--------|---------------------------------|

CONTROL BLOCK NAME = DFHTCUKC
 DESCRIPTIVE NAME = CICS DFHKC USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (60) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | CHARACTER | 1 | TCAKCRC | SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP |
| | 1111 11.. | | * | |
| (61) | CHARACTER | 1 | TCAKCSRB | SECONDARY REQUEST BYTE |
| (62) | CHARACTER | 1 | TCAKCRC2 | Secondary response indicator (macro compatibility XMxx reason) * |
| (63) | CHARACTER | 1 | TCATOMOP | Attach options |
| | 1... .. | | TCATOMCN | Conditional attach |
| | .1.. | | TCATOMEF | Entrypoint attach |
| | ..1. | | TCATOMST | Attach of a system task |
| | ...1 1111 | | * | Reserved |
| (64) | ADDRESS | 4 | TCAKCEPA | ENTRY POINT ADDRESS |
| (64) | CHARACTER | 9 | TCAKCSSF | SECURITY SUBFIELD |
| (64) | UNSIGNED | 1 | TCAKCUIL | ...LENGTH OF USERID |
| (65) | CHARACTER | 8 | TCAKCUID | ...TASK USERID |
| (68) | CHARACTER | 8 | * | reserved |
| (70) | CHARACTER | 4 | TCAKCDST | T.D. DESTINATION ID |
| (74) | ADDRESS | 4 | TCAKCPA | ATTPARM address |
| (74) | CHARACTER | 4 | TCAKCSYS | REMOTE SYSTEM IDENTIFICATION * |
| (78) | CHARACTER | 4 | TCAKCTI | TRANSACTION IDENTIFICATION |
| (7C) | UNSIGNED | 1 | TCAKCPL | ATTPARM length |
| (7D) | CHARACTER | 2 | * | RESERVED |
| (7F) | BITSTRING | 1 | TCAKCFI | FACILITY CONTROL INDICATOR * |
| | 111. | | * | RESERVED |
| | ...1 | | TCAKCAID | AID FACILITY MASK. |
| | 1... | | TCAKCDCM | DESTINATION CONTROL TABLE |
| |1.. | | TCAKCICM | NON-TERMINAL FACILITY MASK * |
| |1. | | TCAKCMCM | K C P MACRO FILE MASK |
| |1 | | TCAKCTRM | TERMINAL FACILITY MASK |
| (80) | CHARACTER | 4 | TCAKCTA | TASK CONTROL AREA ADDRESS |
| (80) | ADDRESS | 4 | TCAKCFA | FACILITY CONTROL ADDRESS |
| (80) | ADDRESS | 4 | TCAKCPTR | FACILITY CONTROL ID |

CONTROL BLOCK NAME = DFHTCUIC
 DESCRIPTIVE NAME = CICS DFHIC USER OVERLAY OF THE DFHTCA
 The following field is product sensitive:-
 TCAICTR

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (60) | STRUCTURE | 44 | * | |
| (60) | CHARACTER | 1 | TCAICTR | TYPE OF REQUEST/RESPONSE |
| (61) | CHARACTER | 3 | * | RESERVED |
| (64) | CHARACTER | 4 | TCAICTEC | ICP 'POST' TIMER EVENT CONTROL ADDRESS |
| (64) | ADDRESS | 4 | TCAICDA | ICP MACRO SERVICE-DATA ADDRESS |
| (68) | CHARACTER | 8 | TCAICQPX | REQUEST ID PREFIX |
| (68) | CHARACTER | 8 | TCAICQID | ICP REQUEST IDENTIFICATION |
| (70) | FULLWORD | 4 | TCAICRT | REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY |
| (74) | CHARACTER | 4 | TCAICFA | ICP FACILITY CONTROL ADDR. |
| (74) | CHARACTER | 4 | TCAICTI | ICP TRANSACTION IDENT. |
| (78) | CHARACTER | 4 | TCAICUSA | ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID |
| | | | | LENGTH 10 BYTE FIELD FOR USERID |
| (78) | CHARACTER | 4 | TCAICTID | ICP SYMBOLIC TERMINAL IDENTIFICATION |
| (7C) | CHARACTER | 1 | TCAICCLS | UNIQUE ID OF REQUESTED ID |
| (7D) | CHARACTER | 1 | TCAICTR2 | SECOND REQUEST/RESPONSE BYTE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------|-----|------------|---|
| | 1... .. | | TCAICHDR | DATA RETURNED BY IC GET CONTAINS A USER-BUILT HDR. (INTERNAL) |
| | .1... .. | | TCAICHSZ | FEPI start - startcode SZ |
| | ..1... .. | | TCAICTKX | XM Transaction token flag |
| | ...1... .. | | TCAICRTC | Router commarea present |
| | 1... .. | | TCAICUSS | Userid is that of system |
| |1... .. | | TCAICUSR | US domain parameter ...specified |
| |1... .. | | TCAICDFS | Deferred dynamic start |
| |1 | | * | RESERVED |
| (7E) | CHARACTER | 2 | * | RESERVED |
| (80) | ADDRESS | 4 | TCAICTKA | XM Transaction token address. * |
| (84) | ADDRESS | 4 | TCAICRTR | Router's commarea address |
| (88) | HALFWORD | 2 | TCAICRTL | Routers commarea length |
| (8A) | CHARACTER | 2 | * | RESERVED |

CONTROL BLOCK NAME = DFHTCUTC
DESCRIPTIVE NAME = CICS DFHTC USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------------------------|-----|-------------|--|
| (60) | STRUCTURE | 40 | * | ORIGIN TO COMMON COMMUNICATION AREA |
| This area (from TCATP_TRACE to TCATP_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (60) | CHARACTER | 32 | TCATP_TRACE | TCA parm list trace area |
| (60) | BITSTRING | 1 | TCATPAPR | APPLICATION REQUEST RESPONSE CODE |
| (60) | BITSTRING | 1 | TCATPLRC | LOCATE RETURN CODE FOR PAGE STATUS TERMINAL INTERPARTITION SESSION |
| | 1... .. | | TCATPEB | END BRACKET RECEIVED (ISC) * |
| | .1... .. | | TCATPSNC | PREPARE/SPR RECEIVED (ISC) * |
| | ..1... .. | | * | |
| | ...1... .. | | TCATPR10 | CANCELLED DURING ALLOC |
| | 1... .. | | TCATPRC8 | BAD REQUEST RETURN |
| |1... .. | | TCATPRC4 | POSSIBLE RETRY RETURN |
| (61) | BITSTRING | 1 | * | RESERVED |
| (62) | BITSTRING | 1 | TCATPOS1 | EXTERNAL OPERATOR REQUEST - byte 1 |
| (63) | BITSTRING | 1 | TCATPOS2 | EXTERNAL OPERATOR REQUEST - byte 2 |
| Overlaid by the LDC - level 4 For ZARQ (Application requests) - level 5 For ZISP - levels 6 and 7 | | | | |
| (63) | BITSTRING | 1 | TCATPLDC | Logical Device Code |
| | 1... .. | | TCATPOER | ERASE REQUEST |
| | 1... .. | | TCATPQAF | ALLOC OP FREE @USER SYNC |
| | 1... .. | | TCATPFSY | FREE OP implicit free |
| | .1... .. | | TCATPOSS | SAVE TERMINAL STORAGE |
| | ..1... .. | | * | Reserved |
| | ...1... .. | | TCATPOLA | LINE ADDRESSING REQUEST |
| | 1... .. | | TCATPQAR | ALLOC OP FREE AT RESTART |
| |1... .. | | TCATPORR | READ REQUEST |
| |1... .. | | TCATPQAU | ALLOC OP NOT PROTECTED AT |
| | 1... .. | | TCATPODR | DISCONNECT REQUEST |
| |1... .. | | TCATPQUE | QUEUE REQUEST(0=NQ) |
| |1... .. | | TCATPOSR | SYNCHRONIZATION REQUEST |
| |1... .. | | * | Reserved |
| | 1... .. | | TCATPCVS | CONVERSE REQUEST |
| |1... .. | | * | Reserved |
| |1... .. | | TCATPOWR | WRITE REQUEST |
| |1... .. | | TCATPIDT | ID IS CHAR (0=ADDR SPEC) |
| (64) | BITSTRING | 1 | TCATPCS1 | EXTERNAL CONTROL REQUEST - byte 1 |
| For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5 | | | | |
| | 1... .. | | TCATPNNI | NOATNI=YES |
| | 1... .. | | TCATPPG | PAGE |
| | .1... .. | | TCATPNAB | NOABEND=YES |
| | .1... .. | | TCATPAU | AUTOMATIC PAGING |
| | ..11 1... .. | | * | reserved |
| | ..1... .. | | TCATPINP | INPUT |
| | ...1... .. | | TCATPNOP | NO POLL |
| | 1... .. | | TCATPSAI | AUTOMATIC INITIATION |
| |1... .. | | TCATBPBQ | BYP QUIESCE FOR PASS |
| | 1... .. | | TCATPTSA | TRANSACTION |
| |11... .. | | * | reserved |
| |1... .. | | TCATPINS | IN SERVICE |
| | 1... .. | | TCATPOOS | OUT OF SERVICE |
| (65) | BITSTRING | 1 | TCATPCS2 | EXTERNAL CONTROL REQUEST - byte 2 |
| For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5 | | | | |
| | 1... .. | | TCATPCRB | READ BUFFER REQUEST |
| | 1... .. | | TCATNVTA | DON'T ISSUE VTAM CMDS |
| | .1... .. | | TCATPCEU | ERASE ALL UNPROTECTED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| | .1.. | | TCATALGI | REQUEST INTLOG |
| | .1.. | | TCATPCWL | WRITE LOCK REQUEST |
| | .1.. | | TCATNLGI | REQUEST NOINTLOG |
| | ...1 | | TCATPCRL | READ LOCK REQUEST |
| | ...1 | | TCATTFOR | FORCEPURGE |
| | 1... | | TCATPCPY | COPY REQUEST |
| | 1... | | TCATTPUR | PURGE TASK |
| |1.. | | TCATPCPT | PRINT REQUEST |
| |1.. | | TCATPREL | RELEASE |
| |1.. | | TCATPCNT | NOTTRANSLATE REQUEST |
| |1.. | | TCATPRSO | RESYNCHRONIZATION OVERRIDE |
| |1.. | | TCATPCPB | PSEUDO BINARY MODE |
| |1.. | | TCATPACQ | ACQUIRE |
| (66) | BITSTRING | 1 | TCATPOC1 | OPERATION CONTROL BYTE 1 |
| For ZARQ (Application requests) - see constants below For ZSTU (Status change) - see constants below | | | | |
| (67) | BITSTRING | 1 | TCATPOC2 | OPERATION CONTROL BYTE 2 |
| For ZARQ (Application requests) - level 4 | | | | |
| | 1... | | TCATPFRC | FORCE=YES |
| | .1.. | | TCATPWSR | WAIT ON INBOUND SIGNAL |
| | .1.. | | TCATPLMP | LOGICAL DEVICE CODE (LDC) MNEMONIC PRESENT |
| | ...1 | | TCATPFDP | FUNCTION MANAGEMENT HEADER (FMH) PROVIDED WITH DATA |
| | 1... | | TCATPLWT | LAST WRITE FROM TASK |
| |1.. | | TCATPOAO | OVERRIDE ASYNCHRONOUS OPERATION NOT USED |
| |1.. | | TCATPOSO | OVERRIDE SYNCHRONOUS OPERATION NOT USED |
| |1.. | | TCATPWRO | WAIT REQUEST WITH OPERATION |
| (68) | CHARACTER | 2 | TCATPLDM | LOGICAL DEVICE MNEMONIC |
| (6A) | BITSTRING | 1 | TCATPCON | CONNECTION TYPE FLAG |
| | 1111 111. | | * | |
| |1.. | | TCATPNCM | NON-COMMUNICATION INDICATOR |
| (6B) | BITSTRING | 1 | TCATPOC3 | OPERATION CONTROL BYTE 3 |
| For ZARQ (Application requests) - level 4 For ZLOC (Status change) - level 5 | | | | |
| | 1... | | TCATPNEC | WRITE WITH CCOMPL=NO |
| | 1... | | TCATTMID | TRMIDNT VALUE SUPPLIED |
| | .1.. | | TCATPTTA | TCTTE ADDRESS SUPPLIED. |
| | .1.. | | TCATSTAT | STATUS KEYWORD SUPPLIED |
| | .1.. | | TCATPCND | CONDITIONAL REQUEST FLAG. |
| | .1.. | | TCATSELC | SELECT KEYWORD SUPPLIED |
| | ...1 | | TCATPOWS | WRITE STRFIELD |
| | ...1 | | TCATTRMT | TRMTYPE SUPPLIED |
| | 1... | | TCATPTTO | TRANSP TIOA OBTAINED |
| | 1... | | TCATOPNW | OPTION=NOWAIT REQUESTED |
| |1.. | | TCATPDWR | DEFER REQUEST FLAG |
| |1.. | | TCATCMPN | TCTCOMP=NO REQUESTED |
| |1.. | | TCATPINV | INVITE REQUEST FLAG |
| |1.. | | TCATSIND | SCAN INDIRECTS.DOMN=SYS |
| |1.. | | * | X'01' RESERVED |
| |1.. | | * | X'01' RESERVED |
| (6C) | CHARACTER | 20 | TCATPPNM | PROGRAM NAME FIELD |
| (6C) | ADDRESS | 4 | TCATPTA | TMNL ID OR A(FULL\|MODEL TE) |
| (70) | CHARACTER | 16 | TCATPREQ | REQUEST ID PARAMETER. |
| (70) | CHARACTER | 16 | TCATPAID | AID ADDRESS |
| (70) | ADDRESS | 4 | TCATPLDA | LOGIC DEVICE CODE ELEMENT ADDRESS |
| (74) | CHARACTER | 12 | TCATPRMT | REMOTENAME OF FOUND TERM'L |
| (74) | ADDRESS | 4 | TCATPPFL | TERMINAL PROFILE ADDRESS |
| (78) | CHARACTER | 8 | TCATPAPL | APPLID OF REMOTE REGION |
| (78) | CHARACTER | 4 | TCATPSYS | SYSID OF REMOTE REGION |
| (7C) | ADDRESS | 4 | TCATPSKA | A(SKELETON TCTTE) |
| (7C) | ADDRESS | 4 | TCATPFS | FS parameters plist |
| TCATP_TRACE_LEN End of parm list trace area | | | | |
| (80) | CHARACTER | 8 | TCATPZTR | ZC trace work area |
| (80) | CHARACTER | 4 | TCATPZT1 | Copy TCT exit footprints |
| (84) | ADDRESS | 4 | TCATPZT2 | Copy TCT address |

OVERLAYS

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-----------------------------------|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON REGISTER STORAGE |
| (84) | FULLWORD | 4 | TCATPRS (14) | REGISTER SAVE AREA |

CONTROL BLOCK NAME = DFHTCUPC
 DESCRIPTIVE NAME = CICS DFHPC USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (60) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | CHARACTER | 1 | TCAPCTR | TYPE OF REQUEST / RESPONSE |
| (61) | CHARACTER | 1 | TCAPCSR | PROGRAM CONTROL SECONDARY REQUEST |
| (62) | CHARACTER | 1 | * | reserved |
| (63) | CHARACTER | 1 | * | Reserved |
| (64) | CHARACTER | 8 | TCAPCPI | PROGRAM IDENTIFICATION |
| (64) | CHARACTER | 4 | TCAPCERA | ABEND EXIT RETURN ENTRY ADDRESS |
| (6C) | CHARACTER | 4 | TCAPCEA | LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS |
| (6C) | CHARACTER | 4 | TCAPCAC | ABNORMAL TERMINATION CODE |
| (70) | ADDRESS | 4 | TCAPCLA | LOADED PROGRAM BEGINNING ADDRESS |
| (74) | ADDRESS | 4 | TCAPGENT | Program entry point (GLUE) |
| (78) | ADDRESS | 4 | TCAPGTKN | Program token (GLUE) |
| (7C) | CHARACTER | 8 | TCAPCEPI | Program that abended APCT |

REGISTER STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (84) | FULLWORD | 4 | TCAPCRS (14) | PROGRAM CONTROL REGISTER STORAGE AREA: REGISTERS 14 -11 * |

CONTROL BLOCK NAME = DFHTCUPH
DESCRIPTIVE NAME = CICS DFHPH User Overlay of the DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 22 | * | OVERLAY THE TCA COMMON COMMUNICATION AREA |
| (60) | CHARACTER | 22 | TCAPH | FOR ZEROING REQUEST BYTES |
| (60) | ADDRESS | 4 | TCAPHRC | ADDRESS OF RETURN CODE |
| (64) | ADDRESS | 4 | TCAPHPSN | ADDRESS OF PRTNSET NAME |
| (68) | ADDRESS | 4 | TCAPHPN | ADDRESS OF PARTITION NAME |
| (6C) | ADDRESS | 4 | TCAPHPID | ADDRESS OF PARTITION ID |
| (70) | ADDRESS | 4 | TCAPHTIO | ADDRESS OF TIOA |
| (74) | CHARACTER | 1 | TCAPHTR | REQUEST TYPE |
| (75) | CHARACTER | 1 | TCAPHRCV | RETURN CODE VALUE |

CONTROL BLOCK NAME = DFHTCUBM
DESCRIPTIVE NAME = CICS DFHBSM USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 8 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | BITSTRING | 1 | TCAMSRC1 | RETURN CODE BYTE ONE |
| | 1... .. | | TCAMSRF | ROUTE FAILED - NO RESOLUTIONS |
| | .1. | | TCAMSRW | ROUTE WORKED - SOME RESOLUTIONS |
| | ..1. | | TCAMSIET | INVALID ERROR TERMINAL |
| | ...1 | | * | |
| | 1... | | TCAMSMTL | MAP TOO LARGE |
| |1.. | | TCAMSCBM | I/O AREA CANNOT BE MAPPED |
| |1. | | TCAMSPRI | PAGE RETURNED INDICATOR |
| |1 | | TCAMSIR | INVALID REQUEST |
| (61) | BITSTRING | 1 | TCAMSRC2 | RETURN CODE BYTE TWO |
| | 1... .. | | TCAMSTSE | TEMP STORAGE I/O ERROR |
| | .1. | | TCAMSRCD | REQUEST CHANGE DIRECN ERROR |
| | ..1. | | TCAMSUXI | UNEXPECTED INPUT |
| | ...1 | | TCAMSIMN | INVALID LDC MNEMONIC |
| | 1... | | TCAMSIPS | INVALID PARTITION SET NAME |
| |1.. | | TCAMSIPN | INVALID PARTITION NAME |
| |1. | | TCAMSIPF | PARTNFAL ERROR |
| |1 | | TCAMSDSS | DATASET STATUS CHANGE |
| (62) | BITSTRING | 1 | TCAMSRC3 | RETURN CODE BYTE THREE |
| | 111. | | * | |
| | ...1 | | TCAMSIGR | SPECIFIED 'REQID' IGNORED |
| | 1... | | TCAMSEOC | END-OF-CHAIN IN LAST INPUT |
| |1.. | | TCAMSEOD | END-OF-DATA-SET LAST INPUT |
| |1. | | TCAMSIFH | INBOUND FMH IN LAST INPUT |
| |1 | | TCAMSOI | PAGE OVERFLOW INDICATOR |
| (63) | BITSTRING | 1 | TCAMSR11 | RETURN INFORMATION BYTE ONE |
| (64) | CHARACTER | 4 | TCAMSPOF | PAGEBLD OVERFLO INFORMATION |
| (64) | HALFWORD | 2 | TCAMSPGN | CURRENT PAGE NUMBER |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---|
| (66) | HALFWORD | 2 | TCAMSOCN | OVERFLOW CONTROL NUMBER |
| (60) | STRUCTURE | 64 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | BITSTRING | 1 | TCAMSTR1 | TYPE REQUEST BYTE ONE |
| | 1... .. | | TCAMSTRR | TYPE = ROUTE |
| | .1. | | TCAMSEO | ERRTERM = ORIG |
| | ..1. | | TCAMSETI | ERRTERM = TERMINAL ID |
| | ...1 | | TCAMSRI | INTRVAL = NUMERIC VALUE |
| | 1... | | TCAMSRT | TIME = NUMERIC VALUE |
| |1.. | | TCAMSRA | LIST = ALL |
| |1. | | TCAMSRSA | LIST = SYMBOLIC ADDRESS |
| |1 | | TCAMSROC | OPCLASS = OPERATOR CLASS |
| (61) | BITSTRING | 1 | TCAMSTR2 | TYPE REQUEST BYTE TWO |
| | 1... .. | | TCAMSRTL | TITLE = SYMBOLIC ADDRESS |
| | .1. | | TCAMSOPT | PROPT = NLEOM |
| | ..1. | | TCAMSRQI | REQID = ALPHANUMERIC VALUE |
| | ...1 | | TCAMSTLD | LDC = MNEMONIC OR YES |
| | 1... | | TCAMSIOT | IOTYPE = IMMED |
| |1. | | TCAMSLPS | SEND PARTNSET |
| |1 | | TCAMSRIN | RECV INTO EXEC COMMAND |
| |1 | | TCAMSTRG | TYPE = PURGE |
| (62) | BITSTRING | 1 | TCAMSTR3 | TYPE REQUEST BYTE THREE |
| | 1... .. | | TCAMSLST | TYPE = LAST |
| | .1. | | TCAMSRPT | RECEIVE PARTN |
| | ..1. | | TCAMSTRT | TYPE = TEXT |
| | ...1 | | TCAMSTC | CURSOR = NUMBER |
| | 1... | | TCAMSTCW | CTRL = ANY 3270 WCC |
| |1. | | TCAMSTMN | MAP = MAP NAME |
| |1 | | TCAMSTSA | MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS |
| |1 | | TCAMSTSN | MAPSET = MAP SET NAME |
| (63) | BITSTRING | 1 | TCAMSTR4 | TYPE REQUEST BYTE FOUR |
| | 1... .. | | * | |
| | .1. | | TCAMSTDN | DATA = NO |
| | ..1. | | TCAMSTRS | TYPE = SAVE |
| | ...1 | | TCAMSTMA | MAPADR = SYMBOLIC ADDRESS |
| | 1... | | TCAMSTRW | TYPE = WAIT |
| |1. | | TCAMSTRM | TYPE = MAP |
| |1 | | TCAMSTRE | TYPE = ERASE |
| |1 | | TCAMSTRI | TYPE = IN |
| (64) | BITSTRING | 1 | TCAMSTR5 | TYPE REQUEST BYTE FIVE |
| | 1... .. | | TCAMSTRB | TYPE = PAGEBLD |
| | .1. | | TCAMSTOF | OFLOW = SYMBOLIC ADDRESS |
| | ..1. | | TCAMSTEU | TYPE = ERASEAUP |
| | ...1 | | TCAMSTFF | TYPE = FORMFEED |
| | 1... | | TCAMSTRLOC | TYPE = LOCATE_MAP |
| |1. | | TCAMSTRO | TYPE = OUT |
| |1 | | TCAMSTRF | TYPE = STORE |
| |1 | | TCAMSTRU | TYPE = RETURN |
| (65) | BITSTRING | 1 | TCAMSTR6 | TYPE REQUEST BYTE SIX |
| | 1... .. | | TCAMSTRP | TYPE = PAGEOUT |
| | .1. | | TCAMSTCA | CTRL = AUTOPAGE |
| | ..1. | | TCAMSTCP | CTRL = PAGE |
| | ...1 | | TCAMSTCK | CTRL = RETAIN |
| | 1... | | TCAMSTCR | CTRL = RELEASE |
| |1. | | TCAMSWBC | WTBRK = CURRENT |
| |1 | | TCAMSWBA | WTBRK = ALL |
| |1 | | TCAMSEPO | EODPURG = OPER |
| (66) | BITSTRING | 1 | TCAMSTR7 | TYPE REQUEST BYTE SEVEN |
| | 1... .. | | TCAMSTRX | TYPE = TEXTBLD |
| | .1. | | TCAMSTH | HEADER = SYMBOLIC ADDRESS |
| | ..1. | | TCAMSTT | TRAILER = SYMBOLIC ADDRESS |
| | ...1 | | TCAMSTJ | JUSTIFY = FIRST, LAST, OR VALUE |
| | 1... | | TCAMSOPR | API SPECIFIES OUTPARTN |
| |1. | | TCAMSAPR | API SPECIFIES ACTPARTN |
| |1 | | TCAMSPGS | PGA SUPPLIED WITH DATA |
| |1 | | TCAMSTRN | TYPE = NOEDIT |
| N.B. TIOATDL SHOULD GIVE THE LENGTH INCLUDING THE PGA IF SET. | | | | |
| (67) | BITSTRING | 1 | TCAMSTR8 | TYPE REQUEST BYTE EIGHT |
| | 1... .. | | TCAMSIPR | API SPECIFIES INPARTN |
| | .1. | | TCAMSMGM | MSR OPTION SPECIFIED |
| | ..1. | | TCAMSEIC | EXEC INTERFACE COMMAND |
| | ...1 | | TCAMSTFP | FMHPARM = YES OR PARM |
| | 1... | | TCAMSRDA | RDATT = SYMBOLIC ADDRESS |
| |1. | | TCAMSWRB | WRBRK = SYMBOLIC ADDRESS |
| |1 | | TCAMSSIG | SIGNAL |
| |1 | | TCAMSMGCG | SEND CONTROL |
| (68) | CHARACTER | 4 | TCAMSTA | TITLE ADDRESS |
| (68) | ADDRESS | 4 | TCAMSIOA | ALTERNATE I/O AREA ADDRESS |
| (6C) | CHARACTER | 4 | TCAMSFSC | FIELD SEPARATOR CHARACTERS |
| (6C) | CHARACTER | | TCABMSFB | WCC AND FLAG BYTE |
| (6C) | CHARACTER | 1 | TCAMSWCC | WRITE CONTROL CHARACTERS |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (6D) | BITSTRING | 1 | TCAMSJ | JUSTIFY = FIRST, LAST, OR VALUE |
| (6E) | CHARACTER | 2 | TCAMSRPL | RETURNED LENGTH FROM RECEIVE PARTN |
| (6E) | HALFWORD | 2 | TCABMSCP | CURSOR POSITION |
| (70) | CHARACTER | 8 | TCABMSMN | MAP NAME |
| (70) | CHARACTER | 8 | TCAMSPSN | PARTITION SET NAME |
| (70) | ADDRESS | 4 | TCABMSMA | MAP ADDRESS |
| (70) | ADDRESS | 4 | TCAMSHDR | HEADER ADDRESS |
| (70) | ADDRESS | 4 | TCAMSRLA | ROUTE OR RETURNED PAGE LIST ADDRESS |
| (74) | ADDRESS | 4 | TCAMSTRL | TRAILER ADDRESS |
| (74) | ADDRESS | 4 | TCABMSDA | ADS descriptor address |
| (74) | CHARACTER | 4 | TCAMSRTI | TIME OR INTERVAL OF TIME |
| (78) | CHARACTER | 8 | TCAMMSA | MAP SET OR PARTNSET ADDRESS |
| (78) | CHARACTER | 8 | TCAMMSN | MAP SET NAME |
| (78) | CHARACTER | 4 | TCAMSTI | ROUTE ERROR TERMINAL ID |
| (7C) | BITSTRING | 1 | * | RESERVED |
| (7D) | CHARACTER | 3 | TCAMSOC | OPERATOR CLASS |
| (80) | CHARACTER | 2 | TCAMSLDM | LOGICAL DEVICE CODE MNEMONIC IF LDC ON API ELSE OUTPARTN IF SEND OR INPARTN IF RECEIVE MAP OR PARTN IF RECEIVE PARTN |
| (82) | BITSTRING | 1 | TCAMSLDC | LOGICAL DEVICE CODE |
| (83) | CHARACTER | 2 | TCAMSRID | REQID - TEMPORARY STORAGE RECOVERY PREFIX |
| (85) | CHARACTER | 2 | TCAMAPNM | ACTPARTN VALUE |
| (87) | CHARACTER | 1 | * | RESERVED FOR BMS |
| (88) | CHARACTER | 8 | TCAMSFMP | FUNCTION MANAGEMENT HEADER (FMH) PARAMETER |
| (90) | CHARACTER | 4 | TCAMMSR | MSR CONTROL VALUE |
| (94) | CHARACTER | 8 | TCAMSRQS | WORK AREA |
| (9C) | CHARACTER | 1 | TCAMCPY | FLAG INDICATING COPY REQUIRED |
| (9D) | CHARACTER | 3 | * | RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|-------------|---|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| REGISTER STORAGE | | | | |
| (84) | FULLWORD | 4 | *(7) | OVERLAID BY BMS REQUEST BYTES |
| (A0) | FULLWORD | 4 | *(3) | RESERVED |
| (AC) | FULLWORD | 4 | TCAMSRS (4) | BMS REGISTER SAVE AREA |

CONTROL BLOCK NAME = DFHTCUSP
DESCRIPTIVE NAME = CICS DFHSP User Overlay of the DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (60) | STRUCTURE | 19 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | BITSTRING | 1 | TCASPTR | SYNC POINT REQUEST |
| | 1... .. | | * | Reserved |
| | .1. | | TCASPREP | SEND PREPARE |
| | ..11 | | * | Reserved |
| | 1... | | TCASPROL | TYPE=ROLLBACK |
| |1.. | | TCASPRAB | No remote rollback abend |
| |1. | | TCASPEXP | Explicit EXEC SYNCPOINT |
| |1 | | TCASPUSR | TYPE=USER |
| (61) | CHARACTER | 3 | * | Reserved |
| (64) | ADDRESS | 4 | TCASPSDA | Address of RMRO parameter area for DFHSP PHASE_1/2 calls |
| (68) | CHARACTER | 10 | * | Reserved |
| (72) | CHARACTER | 1 | TCASPRC | RETURN CODE |

CONTROL BLOCK NAME = DFHTCUDC
DESCRIPTIVE NAME = CICS DFHDC USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 16 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | CHARACTER | 2 | TCADCTR | TYPE OF REQUEST |
| REQUEST BYTE 1 | | | | |
| | 1... .. | | TCADCCSA | DUMP THE CSA |
| | .1. | | TCADCTCA | DUMP THE TCA |
| | ..1. | | TCADCPGM | DUMP THE PROGRAM AREAS |
| | ...1 | | TCADCTRT | DUMP THE TRACE TABLE |
| | 1... | | TCADCIOA | DUMP TERMINAL I/O AREAS |
| |1.. | | TCADCTRN | DUMP TRANSACTION AREAS |
| |1. | | * | RESERVED |
| |1 | | TCADCSEG | DUMP USER SPECIFIED AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|-----------|-----|------------|------------------------------|
| REQUEST BYTE 2 | | | | |
| (61) | 1... .. | | * | RESERVED |
| | .1. | | TCADCSIT | DUMP THE SIT |
| | ..1. | | TCADCPPT | DUMP THE PPT |
| | ...1 | | * | RESERVED |
| | 1... | | TCADCPCT | DUMP THE PCT |
| |1.. | | TCADCTCT | DUMP THE TCT |
| |1. | | TCADCFC | DUMP THE FCT |
| |1 | | TCADCDC | DUMP THE DCT |
| (62) | HALFWORD | 2 | TCADCNB | DUMP CONTROL NUMBER OF BYTES |
| (64) | ADDRESS | 4 | TCADCSA | DUMP CONTROL STORAGE ADDRESS |
| (68) | CHARACTER | 4 | * | RESERVED |
| (6C) | CHARACTER | 4 | TCADCDC | DUMP IDENTIFICATION CODE |

REGISTER STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| (84) | FULLWORD | 4 | TCADCRS (14) | DUMP CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11 |

CONTROL BLOCK NAME = DFHTCUDL
 DESCRIPTIVE NAME = CICS DL/I TCA Communication Area Overlay
 FUNCTION =
 Logical equivalent of DL/I support communication area overlay of the user part of the TCA. This contains request and response fields for various DL/I requests.
 LOCATION =
 Offset (release dependent) from the start of the user TCA.
 LIFETIME =
 Request fields should be filled in for the request and the response fields will contain the return codes.
 For the next request, the fields should be re-filled.
 STORAGE CLASS =
 Same as user TCA.
 INNER CONTROL BLOCKS = none.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none.
 EXTERNAL REFERENCES = none.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (60) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | CHARACTER | 1 | TCADLRC | DL/I Response Code |
| (61) | CHARACTER | 1 | TCADLTR | DL/I Reason Code |
| (62) | CHARACTER | 2 | * | Reserved |
| (64) | ADDRESS | 4 | TCADLPAR | DL/I Parameter List Address |
| (68) | CHARACTER | 8 | TCADLPSB | DL/I PSB Name |
| (70) | CHARACTER | 4 | TCADLFUN | DL/I Function Code |
| (74) | ADDRESS | 4 | TCADLPCB | DL/I PCB Address |
| (78) | ADDRESS | 4 | TCADLIO | DL/I Workarea Address |
| (7C) | ADDRESS | 4 | TCADLSSA | DL/I SSA List Address |
| (80) | CHARACTER | 4 | TCADLLAN | DL/I Language Flags |

REGISTER STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| (84) | FULLWORD | 4 | TCADLRS (14) | DL/I INTERFACE REGISTER STORAGE AREA, STORES REGISTERS 14 THROUGH 11 |

CONTROL BLOCK NAME = DFHTCUTD
 DESCRIPTIVE NAME = CICS DFHTD USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|--|
| (60) | STRUCTURE | 32 | * | overlay on the TCA Common Control Communication Area |
| (60) | BITSTRING | 1 | TCATDTR | - type of request / response |
| | 1... .. | | * | - reserved |
| | .1.. .. | | TCATDPUT | - TYPE=PUT |
| | ..1. | | * | - reserved |
| | ...1 | | * | - reserved |
| | 1... | | * | - reserved |
| |1.. | | * | - reserved |
| |1. | | * | - reserved |
| |1 | | * | - reserved |
| (61) | CHARACTER | 3 | * | - reserved |
| (64) | CHARACTER | 4 | TCATDDI | queue id - either N(queue) or A(DCTE) |
| (68) | CHARACTER | 24 | TCATDROA | - CTYPE=... overlay area |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (68) | STRUCTURE | 4 | * | overlay area for DFHTD TYPE=PUT,....,GET,.... |
| (68) | ADDRESS | 4 | TCATDAA | - A(data area) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (68) | STRUCTURE | 8 | * | overlay area for DFHTD CTYPE=OPEN,....,PUT,.... |
| (68) | ADDRESS | 4 | TCATDDA | - A(DCTE) or 0 - in each case TCATDDI contains N(queue) |
| (6C) | ADDRESS | 4 | TCATDOCP | - A(DOCP parameter list) |
| (6C) | ADDRESS | 4 | TCATDTPD | - A(TDTP parameter list) |

REGISTER STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| (84) | FULLWORD | 4 | TCATDRS (14) | TRANSIENT DATA CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11 |

CONTROL BLOCK NAME = DFHTCUTS
DESCRIPTIVE NAME = CICS DFHTS User Overlay of the DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|--|
| (60) | STRUCTURE | 36 | * | ORIGIN TO COMMON CONTROL COMMUNICATION AREA |
| (60) | BITSTRING | 1 | TCATSTR | TYPE OF REQUEST/RESPONSE * |
| | 1... .. | | TCATSGET | get(q) request |
| | .1.. .. | | TCATSPUT | put(q) request |
| | ..1. | | TCATSREL | purge/release request |
| | ...1 | | TCATSADR | address supplied on get |
| | 1... | | TCATSCND | conditional request |
| |1. | | TCATSENT | entry no. supplied on get |
| |1 | | TCATSMST | main storage request |
| |1.. | | TCATSUPD | update request |
| |1. | | TCATSSYS | system request |
| |1 | | TCATSQUE | queue type request |
| (61) | BITSTRING | 1 | TCATSTR2 | TYPE OF REQUEST (SECONDARY) * |
| | 1... .. | | TCATSICE | append ice |
| | .1.. .. | | TCATSPUN | put unique |
| | ..1. | | TCATSWRM | warm start restore |
| | ...1 | | TCATSEMR | emergency start restore |
| | 1... | | TCATSBMS | class=bms |
| |1.. | | TCATSTRM | storage class=terminal |
| |1. | | TCATSFLB | flush buffers |
| |1 | | TCATSE2 | ESCAPE BIT (TCATSTR3 VALID) * |
| (62) | CHARACTER | 1 | TCATSSTT | SAVED STORAGE TYPE INDICATOR * |
| (63) | CHARACTER | 1 | * | Reserved |
| (64) | ADDRESS | 4 | TCATSDA | TEMPORARY STORAGE DATA ADDRESS * |
| (68) | CHARACTER | 8 | TCATSDI | TEMPORARY DATA IDENTIFICATION |
| (70) | HALFWORD | 2 | TCATSRN | TEMPORARY STORAGE RECORD NUMBER |
| (72) | CHARACTER | 1 | TCATSTR3 | TYPE OF REQUEST(TERTIARY) |
| | 1... .. | | TCATSHDO | HEADER PRESENT IN OUTPUT DATA |
| | .1.. .. | | TCATSHLL | REQUEST ISSUED BY HLL - I.E. BY DFHETS |
| | ..1. | | TCATSEXT | EXTENDS TCA AFTER TCATSSTA |
| | ...1 | | TCATSPRV | PRIVILEGED REQUEST - DO NOT WAIT FOR OPEN-FOR-BUSINESS |
| | 1... | | TCATSINI | CTYPE=INITIALIZE REQUEST |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|--|
| |1.. | | TCATSWTI | CTYPE=WAITINIT REQUEST |
| |1. | | TCATSRST | RESTART TASK |
| |1 | | TCATSGDB | DWE Recovery |
| (73) | CHARACTER | 1 | TCATSR2 | 2ND RESPONSE BYTE |
| | 1... | | TCATSHDI | HEADER PRESENT IN INPUT DATA |
| (74) | ADDRESS | 4 | TCATSCBA | APPENDED CONTROL BLOCK ADDRESS |
| (74) | ADDRESS | 4 | TCATSCBP | |
| (78) | FULLWORD | 4 | TCATSSTA | ADDRESS OF PREVIOUSLY ACQUIRED STORAGE |
| (7C) | FULLWORD | 4 | TCATSL | LL00 FIELD WHEN SEPARATE OR CONCAT = L'(LL00) + L'(DATA) |
| (80) | BITSTRING | 1 | TCATSCMD | COMMAND MODIFIER. |
| | 1... | | TCATSLRE | long record extrn queue |
| | .1.. | | TCATSLRH | long record header |
| | ..1. | | TCATSLRU | long record header update |
| | ...1 1111 | | * | reserved |
| (81) | CHARACTER | 1 | * | reserved |
| (82) | HALFWORD | 2 | TCATSTNR | TOTAL NUMBER OF RECORDS |
| (84) | CHARACTER | | * | |

REGISTER STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (84) | STRUCTURE | 56 | * | ORIGIN TO COMMON CONTROL REGISTER STORAGE |
| (84) | FULLWORD | 4 | TCATSRS (14) | TEMPORARY STORAGE CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11 * |

CONTROL BLOCK NAME = DFHTCUDI
 DESCRIPTIVE NAME = CICS DFHDI USER OVERLAY OF THE DFHTCA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|------------|---|
| (60) | STRUCTURE | 24 | * | |
| (60) | CHARACTER | 2 | TCADIRC | CURRENT RETURN CODE |
| (60) | BITSTRING | 1 | TCADIRC1 | CLASS OF ERROR |
| | 111. | | * | |
| | ...1 | | TCADIQSN | UNKNOWN SENSE ERROR |
| | 1... | | TCADIQFU | FUNCTION ERROR |
| |1. | | TCADIQDS | DESTINATION CHANGE RESPONSE |
| (61) | BITSTRING | 1 | TCADIRC2 | VALUE OF ERROR CODE |
| (62) | BITSTRING | 1 | TCADIFL1 | OPERATION TYPE |
| (63) | BITSTRING | 1 | TCADIFL2 | OPERATION FLAGS |
| | 1... | | TCADIFNV | VOLADDR SPECIFIED |
| | .1.. | | TCADIFNM | SELECT SPECIFIED |
| | ..1. | | TCADIFNP | PROFILE SPECIFIED |
| | ...1 | | TCADIFND | DSN NOT SPECIFIED |
| (64) | BITSTRING | 1 | TCADIFL3 | OPERATION FLAGS |
| | 1... | | TCADIFNF | DEFRESP=YES |
| | .1.. | | TCADIFSS | TYPE=SAVE SPECIFIED |
| | ..1. | | TCADIFNK | KEY SPECIFIED |
| | ...1 | | TCADIFNR | RRN SPECIFIED |
| | 1... | | TCADIFKN | KEYNUMBER SPECIFIED |
| |1. | | * | |
| |1. | | TCADIFRR | RESERVED |
| |1 | | TCADIFWT | WAIT REQUESTED OR DEFAULTED |
| (65) | BITSTRING | 1 | TCADIFL4 | OPERATION FLAGS RESERVED FOR FUTURE USE |
| (66) | BITSTRING | 1 | TCADINRS | NUMBER OF RECORDS IN REQUEST |
| (67) | BITSTRING | 1 | TCADISEL | SELECT VALUE |
| (68) | CHARACTER | 4 | TCADIRNA | RECORD ID |
| (68) | ADDRESS | 4 | TCADIKYA | KEY ADDRESS |
| (6C) | ADDRESS | 4 | TCADIDNA | DATA SET NAME ADDRESS |
| (70) | ADDRESS | 4 | TCADIVNA | VOLUME NAME ADDRESS |
| (74) | BITSTRING | 1 | TCADIDSP | DATA STREAM PROFILE |
| (75) | CHARACTER | 1 | * | RESERVED |
| (76) | HALFWORD | 2 | TCADIKYN | KEYNUMBER VALUE |
| (78) | CHARACTER | | TCADIPND | END OF PLIST MARKER |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|-----------------------------------|
| 1 | HEX | 80 | TCAEISUN | TCA CONTAINS A(UNINITIALISED EIS) |
| 1 | HEX | 80 | TCAACB | ABEND CONTROL BLOCK BUILT |
| CONSTANTS | | | | |
| 1 | DECIMAL | 12 | TCACBAR | TASK CONTROL AREA COMMON |
| TASK CONTROL SECTION THE FOLLOWING BELONG TO FIELD TCATCDC | | | | |
| 1 | HEX | 13 | TCADCITW | DCI=TERMINAL WAIT |
| 1 | HEX | 20 | TCADCIDT | DISPATCHABLE MASK |
| 1 | HEX | 40 | TCADCIEL | EVENT CONTROL LIST ADDRESS |
| 1 | HEX | 80 | TCADCISE | SINGLE EVENT CONTROL ADDRESS |
| 1 | HEX | 88 | TCADCISY | C I C S SYSTEM EVENT CONTROL |
| 1 | HEX | C5 | TCADCEND | END-OF-ACTIVE-CHAIN MARKER |
| THE FOLLOWING BELONG TO FIELD TCATCTR | | | | |
| 1 | HEX | 10 | TCATOMX | attach request |
| 1 | HEX | 40 | TCATWM | wait request |
| 1 | HEX | 0E | TCACANCL | TASK CANCEL FORCE=NO |
| 1 | HEX | 0F | TCACANCF | TASK CANCEL FORCE=YES |
| 1 | HEX | 08 | TCATRM | TASK RESUME MASK |
| 1 | HEX | 05 | TCACEM | CONDITIONAL ENQUEUE MASK |
| 1 | HEX | 03 | TCATDLM | SYNC.DEQUEUE-ALL MASK |
| 1 | HEX | 02 | TCATDM | TASK DEQUEUE MASK |
| 1 | HEX | 01 | TCATEM | TASK ENQUEUE MASK |
| 1 | HEX | 31 | TCADUPQ | DUPLICATE ENQUEUE RESPONSE |
| 1 | HEX | 32 | TCATCONQ | COND ENQ FAILED RESP |
| 1 | HEX | 00 | TCATCOK | COND ENQ SUCCESSFUL RESP |
| 1 | HEX | 28 | TCALOCA | LOCATE XTRAN (DOMAIN=ALL) |
| 1 | HEX | 29 | TCALOCR | LOCATE XTRAN (DOMAIN=REGION) |
| 1 | HEX | 2A | TCABRW | BROWSE |
| 1 | HEX | 2B | TCABRWUL | BROWSE UNLOCK PREVIOUS |
| 1 | HEX | 2C | TCAPROFL | LOCATE PROFILE |
| 1 | HEX | 2D | TCAPROB | BROWSE PROFILES |
| 1 | HEX | 2E | TCAPROBU | BROWSE PROFILES UNLOCK PREVIOUS |
| 1 | HEX | 2F | TCAKCREP | REPLACE PCT ELEMENT |
| 1 | HEX | 2F | TCAKCSRQ | KCP SECONDARY REQUEST |
| THE FOLLOWING BELONG TO FIELD TCAPURGI | | | | |
| 1 | HEX | BF | TCASNPRG | STALL NO PURGE MASK |
| EXIT XSRAB ABEND RECOVERY OPTION (TCAPCARO) VALUES | | | | |
| 1 | HEX | 00 | TCAPCAGO | Abend ASRB, don't cancel exits |
| 1 | HEX | C3 | TCAPCANC | Abend ASRB, cancel exits |
| 1 | HEX | C1 | TCAPCAAC | Terminate CICS |
| STORAGE TYPE HIT BY ASRA 0C4 (TCAPCSTG) VALUES | | | | |
| 1 | HEX | 00 | TCANOHit | No hit or not 0C4 |
| 1 | HEX | 01 | TCACDSA | CDSA hit |
| 1 | HEX | 02 | TCAECDSA | ECDSA hit |
| 1 | HEX | 03 | TCAERDSA | ERDSA hit |
| 1 | HEX | 04 | TCARDSA | RDSA hit |
| 1 | HEX | 05 | TCAEUDSA | EUDSA hit |
| 1 | HEX | 06 | TCAUDSA | UDSA hit |
| 1 | HEX | 10 | TCADYCSA | Dummy CSA/TCA hit |
| 1 | HEX | 20 | TCADYRCT | Dummy RCT hit |
| EXIT XPCTA RETRY EXECUTION KEY (TCAPCRFL) VALUES | | | | |
| 1 | HEX | 80 | TCAPCUSK | Retry in USER key |
| 1 | HEX | 40 | TCAPCCIK | Retry in CICS key |
| NOTE THAT THESE DEFINITIONS ARE LOGICALLY BYTE DEFINITIONS THE FOLLOWING BELONG TO FIELD TCAFCI | | | | |
| 1 | HEX | 00 | TCAFCTDM | TASK-DEPENDENT FACILITY MASK |
| CONSTANTS | | | | |
| THE FOLLOWING BELONG TO TCAKCR | | | | |
| 1 | HEX | 00 | TCAKCOK | SUCCESS |
| 1 | HEX | 08 | TCAKCWRN | WARNING MESSAGE ISSUED |
| 1 | HEX | 10 | TCAKCDER | DISASTROUS ERROR |
| 1 | HEX | 12 | TCAKCINV | INVALID NEW VALUE PASSED |
| 1 | HEX | 16 | TCAKCINP | INVALID PARM TYPE PASSED |
| 1 | HEX | 00 | TCAKCATS | ATTACH SUCCESSFUL |
| 1 | HEX | 31 | TCAKCATF | ATTACH FAILED |
| 1 | HEX | 32 | TCAKCTNF | TRANSACTION NOT FOUND |
| THE FOLLOWING BELONG TO TCAKCSRB | | | | |
| 1 | HEX | 01 | TCAKCSRR | CTYPE=REPLACE |
| 1 | HEX | 02 | TCAKCSRI | CTYPE=INITIALIZE |
| 1 | HEX | 03 | TCAKCSRW | CTYPE=WAITINIT |
| 1 | HEX | 04 | TCAKCSRK | RESTART TASK |
| CONSTANTS | | | | |
| THE FOLLOWING BELONG TO TCAICTR | | | | |

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|--|
| 1 | HEX | 10 | TCAICGTM | 'GETIME' TYPE OF REQUEST |
| 1 | HEX | 20 | TCAICWTM | 'WAIT' TYPE OF REQUEST |
| 1 | HEX | 30 | TCAICPST | 'POST' TYPE OF REQUEST |
| 1 | HEX | 40 | TCAICINT | 'INITIATE' TYPE OF REQUEST |
| 1 | HEX | 50 | TCAICPUT | 'PUT' TYPE OF REQUEST |
| 1 | HEX | 60 | TCAICIND | 'INITIATE' DEFERRED |
| 1 | HEX | 70 | TCAICPTH | 'PUT WITH HEADER' TYPE OF REQUEST (CICS INTERNAL) |
| 1 | HEX | 80 | TCAICGET | 'GET' TYPE OF REQUEST |
| 1 | HEX | 81 | TCAICGNR | 'GET-NO RELEASE' REQUEST |
| 1 | HEX | 90 | TCAICRTY | 'RETRY' TYPE OF REQUEST |
| 1 | HEX | A0 | TCAICRST | 'RESET' CICS INTERNAL |
| 1 | HEX | B0 | TCAICSCH | 'SCHEDULE' (CICS INTERNAL) |
| 1 | HEX | C0 | TCAICTXA | EXPIRY ANALYSIS, APTIX Call * |
| 1 | HEX | D0 | TCAICRVY | DWE DRIVEN ACTIONS. |
| 1 | HEX | E0 | TCAICSCD | Secondary Request TCAICR2 contains code |
| 1 | HEX | F0 | TCAICCNL | 'CANCEL' TYPE OF REQUEST |
| 1 | HEX | 01 | TCAICPFM | PACKED TIME-OF-DAY REQUEST MASK |
| 1 | HEX | 01 | TCAICTFM | AUTOMATIC TASK INITIATION - TERMINAL FACILITY MASK |
| 1 | HEX | 01 | TCAICNRL | 'NO RELEASE' MASK |
| 1 | HEX | 01 | TCAICDWE | SCHEDULE BUILDS DWE. |
| 1 | HEX | 02 | TCAICUDA | RETURN DATA TO USER MASK |
| 1 | HEX | 02 | TCAICRAM | RETURN 'GET' DATA ADDRESS |
| 1 | HEX | 02 | TCAICRIP | 'REQID=PREFIX' REQUEST |
| 1 | HEX | 06 | TCAICCSA | 'CLASS=' (CICS INTERNAL) |
| 1 | HEX | 04 | TCAICIDM | ICP REQUEST IDENTIFIER GIVEN MASK |
| 1 | HEX | 08 | TCAICXTM | EXPIRATION TIME GIVEN MASK |
| 1 | HEX | 08 | TCAICGWT | 'WAIT' OPTION ON GET. |
| 1 | HEX | 40 | TCAICFND | SEARCH, TRAN FOUND RESPONSE * |
| 1 | HEX | 08 | TCAICNFD | SEARCH, TRAN NOT FOUND RESP * |

CONSTANTS
 THE FOLLOWING BELONG TO TCAICR2
 NOTE: See definition of TCAICR2 above before adding more byte definitions.

| | | | | |
|---|-----|----|----------|--------------------|
| 1 | HEX | 01 | TCAICSRC | Search |
| 1 | HEX | 02 | TCAICRGW | Resume Get Waiters |

CONSTANTS
 THE FOLLOWING REFER TO FIELD TCATPAPR

| | | | | |
|---|-----|----|----------|------------------------|
| 1 | HEX | 0C | TCATPRCC | BAD REQUEST RETURN |
| 1 | HEX | 14 | TCATPR14 | MODE GP OUT OF SERVICE |
| 1 | HEX | 18 | TCATPR18 | LUC DRAIN=ALL |
| 1 | HEX | 1C | TCATPR1C | RM ADD_LINK failure |

THE FOLLOWING REFER TO FIELD TCATPLRC

| | | | | |
|---|-----|----|----------|-----------------------------|
| 1 | HEX | 00 | TCATPLNR | NORMAL RETURN |
| 1 | HEX | F0 | TCATPLLE | LAST ENTRY |
| 1 | HEX | F1 | TCATPLIR | INVALID REQUEST |
| 1 | HEX | F2 | TCATPLII | INVALID TERMINAL ID |
| 1 | HEX | F3 | TCATPLIA | INVALID ADDRESS |
| 1 | HEX | F4 | TCATPLIL | INVALID LOGICAL DEVICE CODE |
| 1 | HEX | F5 | TCATPNAT | ATI REQUIRED ON NON-ATI |
| 1 | HEX | F6 | TCATPVAL | RESOURCE PROBLEM FOR |
| 1 | HEX | F7 | TCATPNVL | INVALID PROGRAM NAME |
| 1 | HEX | F8 | TCATPRFL | UNABLE TO PERFORM REQUEST |
| 1 | HEX | F9 | TCATPLNL | TYPE IS NOT LUC |
| 1 | HEX | FA | TCATPBSY | BUSY |
| 1 | HEX | FB | TCATPUSR | INVALID USERID |
| 1 | HEX | FC | TCATPDFR | Purge was deferred |

THE FOLLOWING REFER TO FIELD TCATPOS1
 ZARQ REQUEST FLAGS

| | | | | |
|---|-----|----|----------|----------------------|
| 1 | HEX | 00 | TCATPIOR | I/O REQUEST TYPE |
| 1 | HEX | 01 | TCATPISG | ISSUE SIGNAL REQUEST |
| 1 | HEX | 20 | TCATPASS | CLSDST PASS |
| 1 | HEX | 40 | TCATPPGM | PROGRAM REQUEST |
| 1 | HEX | 80 | TCATPEOD | EOD REQUEST |

ZISP REQUEST FLAGS

| | | | | |
|---|-----|----|----------|-------------------|
| 1 | HEX | 01 | TCATPALL | ALLOCATE REQUEST. |
|---|-----|----|----------|-------------------|

POINT logic moved in-line to ISP

| | | | | |
|---|-----|----|----------|----------------------|
| 1 | HEX | 03 | TCATPFRE | FREE REQUEST. |
| 1 | HEX | 04 | TCATPFRD | FREE DETACH REQUEST |
| 1 | HEX | 05 | TCATPFRR | FREE RELEASE REQUEST |
| 1 | HEX | 06 | TCATPLUA | DFHLUC ALLOC REQUEST |
| 1 | HEX | 07 | TCATPLUF | DFHLUC FREE REQUEST |

ZIS1 CTYPE REQUEST FLAGS

| | | | | |
|---|-----|----|----------|---------------------|
| 1 | HEX | 01 | TCATPPRP | PREPARE REQUEST. |
| 1 | HEX | 02 | TCATPSPR | SPR REQUEST. |
| 1 | HEX | 03 | TCATPCMM | COMMIT REQUEST. |
| 1 | HEX | 04 | TCATPABT | ABORT REQUEST. |
| 1 | HEX | 05 | TCATPSRB | ROLLBACK request |
| 1 | HEX | 06 | TCATPERR | ISSUE-ERROR request |
| 1 | HEX | 07 | TCATPABN | ISSUE-ABEND request |
| 1 | HEX | 08 | TCATPSHU | SHUNT request |

| Len | Type | Value | Name | Description |
|--|------|-------|----------|--------------------------------------|
| ZLOC REQUEST FLAGS | | | | |
| 1 | HEX | 01 | TCATPLOC | LOCATE REQUEST |
| 1 | HEX | 02 | TCATPATI | AUTOMATIC TASK INITIATION |
| 1 | HEX | 05 | TCATPUNL | UNLOCK REQUEST |
| 1 | HEX | 08 | TCATPLDR | LOGICAL DEVICE CODE REQUEST |
| 1 | HEX | 20 | TCATPSYN | SYNC-POINT REQUEST |
| 1 | HEX | 21 | TCATPRCY | RECOVER REQUEST |
| 1 | HEX | 10 | TCATPXL | TRANSLATE ID TO UNIQUENAME (REQUEST) |
| ZDET REQUEST FLAGS | | | | |
| 1 | HEX | 10 | TCATPDET | DETACH REQUEST |
| ZSTU REQUEST FLAGS | | | | |
| 1 | HEX | 02 | TCATPFOR | FORCEPURGE |
| 1 | HEX | 03 | TCATPPUR | TASK PURGE REQ(TCATPTA=TCA) |
| 1 | HEX | 04 | TCATPTST | STATUS REQUEST |
| THE FOLLOWING REFER TO FIELD TCATPOS2 ZLOC REQUEST SETTINGS WITH CTYPE=LOCATE, 3 BITS SPECIFY THE FORM OF SEARCH ARGUMENT: THE INTERPRETATION OF THE 2 LOW-ORDER BITS IS MAINTAINED IN THE FOLLOWING, FOR COMPATIBILITY WITH CALLS IN OLD MODULES. | | | | |
| 1 | HEX | 00 | TCATPLCL | LOCAL DOMAIN IE THIS CICS. |
| 1 | HEX | 08 | TCATPSTM | THE SYTEMS ENTRIES. |
| 1 | HEX | 10 | TCATPREM | REMOTE DOMAIN (ALL REGIONS) |
| 1 | HEX | 18 | TCATPGBL | ALL REGIONS, LOCAL & REMOTE |
| 1 | HEX | 20 | TCATPNIB | TERMINAL\|SESSION, IDENTIFIED VIA |
| 1 | HEX | 28 | TCATPSES | SESSIONS, DEPENDENT ON SPECIFIED |
| 1 | HEX | 30 | TCATPGRP | LUC SESSIONS, DEPENDENT UPON A |
| 1 | HEX | 38 | TCATPMOD | MODE GROUP ENTRIES, DEPENDENT UPON |
| 1 | HEX | 40 | TCATPLUC | LUC SYSTEM OR SESSION DOMAIN |
| 1 | HEX | 48 | TCATPOOL | POOL TERMINALS DOMAIN |
| 1 | HEX | 50 | TCATPIRC | IRC SYSTEM DOMAIN |
| 1 | HEX | 58 | TCATPSUR | SURROGATE TCTTE DOMAIN |
| 1 | HEX | 60 | TCATPPRT | PRINTER SPOOLER DOMAIN |
| 1 | HEX | 00 | TCATPADR | ADDR OF PASSED TEJSE. |
| 1 | HEX | 01 | TCATPTID | ID REQUEST -- 4 BYTES GIVEN |
| 1 | HEX | 02 | TCATPNXT | ADDR GIVEN, NEXT REQUESTED |
| 1 | HEX | 03 | TCATPUNQ | UNIQUE COMPOUND NAME GIVEN |
| 1 | HEX | 04 | TCATPFST | FIRST-IN-DOMAIN REQUEST. |
| 1 | HEX | 05 | TCATPNET | PTR TO VTAM NETNAME GIVEN. |
| 1 | HEX | 06 | TCATPSID | COMPARE SIDS. |
| 1 | HEX | 07 | TCATPFM7 | 8TH FORMAT UNDEFINED. |
| THE FOLLOWING REFER TO FIELD TCATPOC1 | | | | |
| 1 | HEX | 01 | TCATPWCI | CONTROL CHARACTER SUPPLIED |
| 1 | HEX | 02 | TCATPOFR | END OF FILE REQUEST |
| 1 | HEX | 04 | TCATPPBK | PASSBOOK REQUEST |
| 1 | HEX | 08 | TCATPCBR | COMMON BUFFER REQUEST |
| 1 | HEX | 10 | TCATPRAR | READ ATTENTION ANALYSIS |
| 1 | HEX | 20 | TCATPWBR | WRITE BREAK ANALYSIS |
| 1 | HEX | 40 | TCATP120 | PLIST IS AT V1.2.0 LEVEL |
| 1 | HEX | 80 | TCATPDRR | DEFINITE RESPONSE REQUESTED |
| 1 | HEX | 08 | TCATOTTI | TTI ALLOWED |
| 1 | HEX | 04 | TCATNTTI | NO TTI ALLOWED |
| 1 | HEX | 02 | TCATOATI | ATI ALLOWED |
| 1 | HEX | 01 | TCATNATI | NO ATI ALLOWED |
| 1 | HEX | 00 | TCATPCOM | COMMUNICATION INDICATOR |
| PROGRAM CONTROL PRIMARY REQUEST BYTE VALUES | | | | |
| 1 | HEX | 01 | TCAPCLNK | LINK |
| 1 | HEX | 20 | TCAPCEXT | SETEXIT |
| 1 | HEX | 40 | TCAPCABD | ABEND |
| 1 | HEX | 41 | TCAPCADC | ABEND AND CANCEL ALL EXITS * |
| 1 | HEX | 60 | TCAPCABA | ABEND WITH ABCODE |
| 1 | HEX | 61 | TCAPCACA | ABEND CANCEL EXITS WITH ACODE * |
| RESPONSE RETURN CODES | | | | |
| 1 | HEX | 00 | TCAPCROK | NORMAL RESPONSE |
| 1 | HEX | 02 | TCAPCINV | INVALID PROGRAM CNTRL REQUEST * |
| 1 | HEX | 03 | TCAPCFFA | FAILURE FROM FETCH |
| 1 | HEX | 04 | TCAPCABN | ABEND RETURNED TO URM |
| 1 | HEX | 01 | TCAPCWAM | WRONG AMODE FOR LINK |
| 1 | HEX | 02 | TCAPCNON | PPT NOTFND, NOT PCLASS |
| PROGRAM CONTROL SECONDARY REQUEST BYTE VALUES | | | | |
| 1 | HEX | 02 | TCAPCEXR | EXIT IS ROUTINE (SETEXIT) * |
| 1 | HEX | 06 | TCAPCPNR | REFRESH (WITH SETEXIT) |
| 1 | HEX | 08 | TCAPCREX | RESETEXIT (SETEXIT) |
| 1 | HEX | 40 | TCAPCSYS | PROGRAM CLASS IS SYSTEM |
| 1 | HEX | 80 | TCAPCNOD | SUPPRESS DUMP (WITH ABEND) * |
| CONSTANTS TCAPHTR EQUATES | | | | |
| 1 | HEX | 01 | TCAPHPSI | TYPE=PSETLOAD |
| 1 | HEX | 02 | TCAPHPSC | TYPE=PSETCRT |

| Len | Type | Value | Name | Description |
|---|------|-------|----------|---|
| 1 | HEX | 03 | TCAPHPIN | DECOMPOSE 3270E INBOUND |
| 1 | HEX | 04 | TCAPHPXE | INPUT FROM WRONG PARTITION |
| TCAPHRC EQUATES | | | | |
| 1 | HEX | 00 | TCAPHROK | GOOD RETURN CODE |
| 1 | HEX | 04 | TCAPHNPS | PARTITION SET NOT KNOWN |
| 1 | HEX | 08 | TCAPHIPS | INVALID PARTITION SET |
| 1 | HEX | 0C | TCAPHNP | PARTITION NOT KNOWN |
| 1 | HEX | 10 | TCAPHERR | IRRECOVERABLE ERROR |
| CONSTANTS | | | | |
| THE FOLLOWING BELONG TO THE BYTE TCAMSRC1 | | | | |
| 1 | HEX | 00 | TCAMSNR1 | NORMAL RESPONSE |
| THE FOLLOWING BELONG TO THE BYTE TCAMSTR4 | | | | |
| 1 | HEX | C0 | TCAMSTDY | DATA = YES |
| THE FOLLOWING BELONG TO THE BYTE TCAMSJ | | | | |
| 1 | HEX | FF | TCAMSJF | JUSTIFY = FIRST |
| 1 | HEX | FE | TCAMSJL | JUSTIFY = LAST |
| THE FOLLOWING CONSTANTS REFER TO TCASPRC | | | | |
| 1 | HEX | 00 | TCASPRC0 | NORMAL RETURN |
| 1 | HEX | 01 | TCASPRC1 | Rolled Back |
| 1 | HEX | 08 | TCASPRC8 | STATE ERROR |
| TCADLRC and TCADLTR are used to indicate the results of a DL/I related request. TCADLRC contains the Response Code and, where appropriate, TCADLTR contains the Reason Code to explain the response code further. | | | | |
| TCADLRC may contain the following response codes:- | | | | |
| 1 | HEX | 00 | TCADLNR | Normal Response |
| 1 | HEX | 08 | TCADLINV | Invalid Request (Reason in TCADLTR) |
| 1 | HEX | 0C | TCADLNOP | Not Open (Reason in TCADLTR) |
| 1 | HEX | 14 | TCADLIDB | DBRC Check Failure (DBRC Return Code in TCADLTR) |
| 1 | HEX | 18 | TCADLNGL | Global Request Failure - Command only attempted locally (Results of the request in TCADLTR) |
| TCADLTR may contain the following response codes:- When Normal Response - TCADLRC=TCADLNR TCADLTR will also contain TCADLNR to indicate Normal Response When Invalid Request - TCADLRC=TCADLINV | | | | |
| 1 | HEX | 00 | TCADLINA | Invalid Argument |
| 1 | HEX | 00 | TCADLPIN | PI Trace On (CEMT PITRACE only) |
| 1 | HEX | 01 | TCADLPNF | PSB Not Found in PDIR |
| 1 | HEX | 03 | TCADLSFS | Schedule Failure - A PSB is already scheduled |
| 1 | HEX | 04 | TCADLPFI | PI Trace Off (CEMT PITRACE only) |
| 1 | HEX | 05 | TCADLSFI | Schedule Failure - IMS unable to schedule PSB |
| 1 | HEX | 07 | TCADLTFE | Termination Failure - No PSB has been scheduled |
| 1 | HEX | 08 | TCADLFUF | Function Failure - No PSB has been scheduled |
| 1 | HEX | 08 | TCADLNPI | PI not being used (CEMT PITRACE only) |
| 1 | HEX | 10 | TCADLSFP | Schedule Failure - Invalid System Service parameter |
| 1 | HEX | 14 | TCADLFPX | Function prevented by User Exit XDLPRE |
| 1 | HEX | 1C | TCADLSTG | Unable to acquire storage |
| The following code applies to TCADLTR | | | | |
| The following codes indicate the result of a Master Terminal request to reconnect to the IRLM. | | | | |
| 1 | HEX | 61 | TCADLRIF | IRLM IDENTIFY FAILED |
| 1 | HEX | 62 | TCADLRE2 | MASTER TERMINAL RECONNECT ALREADY IN PROGRESS |
| 1 | HEX | 63 | TCADLNOI | IRLM NOT REINITIALIZED YET |
| 1 | HEX | 64 | TCADLRNG | IRLM NOT REQUESTED FOR THIS BRINGUP |
| 1 | HEX | 65 | TCADLIRA | IRLM ALREADY CONNECTED |
| The following codes indicate the result of other Master Terminal requests. | | | | |
| 1 | HEX | 71 | TCADLDFN | DB NOT FOUND (FOR MT REQUEST) |
| 1 | HEX | 72 | TCADLBSY | OTHER MT ACTING ON THIS DB |
| 1 | HEX | 73 | TCADLINT | DB CMD FAILED FOR INTEGRITY REASONS |
| 1 | HEX | 74 | TCADLIAC | ACCESS PARAMETER ILLEGAL |
| 1 | HEX | 75 | TCADLIGL | GLOBAL PARAMETER ILLEGAL |
| 1 | HEX | 76 | TCADLFCL | CLOSE FAILED DURING REQUEST |
| 1 | HEX | 77 | TCADLFCA | CHANGE-AUTHORISATION FAILED |
| 1 | HEX | 78 | TCADLCSP | NOT YET SAFE TO DO *REC RQST |
| 1 | HEX | 79 | TCADLFDA | DE-ALLOCATION FAILURE |
| TCADLNLD BIT(8) CONSTANT('7A/X) NO LOCAL PSBs - removed | | | | |
| 1 | HEX | FF | TCADLNA | DL/I Support not available |
| When Not Open - TCADLRC=TCADLNOP | | | | |
| 1 | HEX | 00 | TCADLDBC | Data Base not open |
| 1 | HEX | 02 | TCADLISC | Intent Scheduling Conflict |
| When Global Command Failure - TCADLRC=TCADLNGL | | | | |

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|----------------------------------|
| 1 | HEX | 00 | TCADLLNR | Normal Response to Local Request |
| 1 | HEX | 10 | TCATDTLO | - TYPE=LOCATE |
| 1 | HEX | E1 | TCATDCLO | - CTYPE=LOCATE |
| 1 | HEX | E3 | TCATDITD | - CTYPE=INIT_TD |
| 1 | HEX | E4 | TCATDBRW | - CTYPE=BROWSE |
| 1 | HEX | F0 | TCATDINI | - CTYPE=INITIALIZE |
| 1 | HEX | F1 | TCATDWTI | - CTYPE=WAITINIT |
| 1 | HEX | FA | TCATDRST | - CTYPE=RESETRIG |
| 1 | HEX | FC | TCATDCPT | - CTYPE=PUT |
| 1 | HEX | FD | TCATDCGT | - CTYPE=GET |
| 1 | HEX | FE | TCATDCPR | - CTYPE=PURGE |

CONSTANTS

The following refer to TCATSTR.

| | | | | |
|---|-----|----|----------|-----------------------|
| 1 | HEX | 00 | TCATSNML | normal response |
| 1 | HEX | 01 | TCATSENE | entry number error |
| 1 | HEX | 02 | TCATSIDE | id error |
| 1 | HEX | 04 | TCATSIOE | input/output error |
| 1 | HEX | 08 | TCATSNOS | nospace error |
| 1 | HEX | 20 | TCATSINV | invalid request error |
| 1 | HEX | 80 | TCATSDUP | duplicate id error |

The following refer to TCATSTR2 for the CYPE=GETDWEB command

| | | | | |
|---|-----|----|----------|------------------------|
| 1 | HEX | 00 | TCATSGDY | normal response |
| 1 | HEX | 01 | TCATSGDM | err-DWE already there |
| 1 | HEX | 02 | TCATSGDE | err-no TCTTE/URD/STUTE |

THE FOLLOWING REFER TO TCATSSTT

| | | | | |
|---|-----------|---|----------|--------------------|
| 1 | CHARACTER | A | TCATSSTU | TSUT TYPE STORAGE |
| 1 | CHARACTER | B | TCATSSTG | TSGID TYPE STORAGE |
| 1 | CHARACTER | C | TCATSSTD | DATA TYPE STORAGE |
| 1 | CHARACTER | D | TCATSSTM | TIOA STORAGE |

THE FOLLOWING REFER TO TCATSCMD

| | | | | |
|---|-----|----|----------|------------------------|
| 1 | HEX | 00 | TCATSNRM | NORMAL |
| 1 | HEX | C0 | TCATSHDR | SPECIAL HEADER. SPHDR. |

CONSTANTS

THE FOLLOWING BELONG TO THE BYTE TCADIRC1

| | | | | |
|---|-----|----|----------|-----------------|
| 1 | HEX | 00 | TCADIQNM | NORMAL RESPONSE |
| 1 | HEX | 0C | TCADIQSL | SELECTION ERROR |

THE FOLLOWING BELONG TO THE BYTE TCADIRC2

| | | | | |
|---|-----|----|----------|--------------------------------|
| 1 | HEX | 01 | TCADIQBE | BEGIN DESTINATION |
| 1 | HEX | 02 | TCADIQRE | RESUME DESTINATION |
| 1 | HEX | 11 | TCADIQEN | END DESTINATION |
| 1 | HEX | 12 | TCADIQSU | SUSPEND DESTINATION |
| 1 | HEX | 13 | TCADIQAB | ABORT DESTINATION INBOUND |
| 1 | HEX | 14 | TCADIQAY | ABORT DESTINATION OUTBOUND |
| 1 | HEX | 15 | TCADIQCN | CURRENTLY NO DATA TO SEND |
| 1 | HEX | 21 | TCADIQIF | INVALID FUNCTION |
| 1 | HEX | 22 | TCADIQLF | RECORD TOO LONG |
| 1 | HEX | 23 | TCADIQFD | DATA SET FULL |
| 1 | HEX | 24 | TCADIQIK | INVALID RECORD KEY OR |
| 1 | HEX | 25 | TCADIQID | I/O ERROR ON OUTBOARD DISK |
| 1 | HEX | 26 | TCADIQIB | INVALID NUMERICAL RECORD |
| 1 | HEX | 28 | TCADIQIR | INSUFFICIENT RESOURCE |
| 1 | HEX | 29 | TCADIQND | DATA SET NOT FOUND |
| 1 | HEX | 2A | TCADIQTD | DATA SET ALREADY EXISTS |
| 1 | HEX | 2B | TCADIQCD | REQUEST CHANGE DIRECTION ERROR |
| 1 | HEX | 41 | TCADIQXD | DESTINATION DOES NOT EXIST |
| 1 | HEX | 42 | TCADIQBD | BUSY DATA SET |
| 1 | HEX | 43 | TCADIQXM | SELECT VALUE NOT SUPPORTED |
| 1 | HEX | 44 | TCADIQLD | DESTINATION NAME LENGTH |
| 1 | HEX | 45 | TCADIQIV | INVALID VOLUME |
| 1 | HEX | 46 | TCADIQLV | VOLUME NAME LENGTH ERROR |
| 1 | HEX | 47 | TCADIQTT | TRANSMIT DATASET ATERM |
| 1 | HEX | 48 | TCADIQAV | ACTIVE DESTINATION SELECTED |
| 1 | HEX | 60 | TCADIQTS | TEMPORARY STORAGE ERROR |
| 1 | HEX | F1 | TCADIQUF | UNEXPECTED SENSE CODE RECVD |
| 1 | HEX | F2 | TCADIQUA | INVALID INPUT RECEIVED |
| 1 | HEX | F3 | TCADIQUI | UNSUPPORTED INPUT RECEIVED |

THE FOLLOWING BELONG TO THE BYTE TCADIFL1

| | | | | |
|---|-----|----|----------|--------------|
| 1 | HEX | 01 | TCADIFOA | TYPE=ADD |
| 1 | HEX | 02 | TCADIFOE | TYPE=ERASE |
| 1 | HEX | 03 | TCADIFOR | TYPE=REPLACE |
| 1 | HEX | 04 | TCADIFAB | TYPE=ABORT |
| 1 | HEX | 05 | TCADIFOQ | TYPE=QUERY |
| 1 | HEX | 06 | TCADIFEN | TYPE=END |
| 1 | HEX | 07 | TCADIFIR | TYPE=RECEIVE |
| 1 | HEX | 08 | TCADIFNT | TYPE=NOTE |
| 1 | HEX | 09 | TCADIFDT | TYPE=DETACH |
| 1 | HEX | 0A | TCADIFIB | TYPE=ATTACH |
| 1 | HEX | 0B | TCADIFOS | TYPE=SEND |
| 1 | HEX | 0C | TCADIFCK | TYPE=WAIT |
| 1 | HEX | 0D | TCADIFCA | CTYPE=ABORT |

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|---------------|
| 1 | HEX | 00 | TCADIRLE | RELEASE LEVEL |

TCADY Task control area - system area

DESCRIPTIVE NAME = TASK CONTROL AREA - SYSTEM AREA
 FUNCTION = The DFHTCADY structure is repeated to provide the offsets when it is addressed separately.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | STRUCTURE | 520 | DFHTCADY | |
| SYSTEM AREA | | | | |
| (0) | CHARACTER | | DFHSYTCA | |
| (0) | CHARACTER | 8 | * | Reserved |
| (8) | ADDRESS | 4 | * | Reserved |
| (C) | ADDRESS | 4 | * | Reserved |
| TASK CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSK | | | | |
| DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA | | | | |
| (10) | CHARACTER | 4 | TCATXNUM | TXN MGR transaction num |
| (10) | BITSTRING | 1 | * | X'00' |
| (11) | CHARACTER | 3 | TCAKCTTA | TASK IDENTIFICATION NUM |
| (14) | CHARACTER | 8 | TCASPOOL | TCA subpool id |
| (1C) | ADDRESS | 4 | TCATCPC | PROGRAM CONTROL TABLE ENTRY ADDRESS |
| (20) | ADDRESS | 4 | TCADCAA | TQE address |
| (20) | ADDRESS | 4 | TCATQEA | TQE ADDRESS |
| (24) | CHARACTER | 4 | * | Reserved |
| (28) | ADDRESS | 4 | TCARSTSK | RESUME TASK'S T C A ADDRESS |
| (2C) | ADDRESS | 4 | TCADWLBA | DEFERRED WORK LIST BEGIN ADDRESS |
| INTERVAL CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSIC | | | | |
| DESCRIPTIVE NAME = CICS DFHC System Overlay of the DFHTCA | | | | |
| INTERVAL CONTROL SECTION | | | | |
| (30) | ADDRESS | 4 | TCAICEAD | INTERVAL CONTROL ELEMENT ADDRESS |
| (34) | ADDRESS | 4 | * | Reserved |
| PROGRAM CONTROL SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSPC | | | | |
| DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL | | | | |
| (38) | ADDRESS | 4 | TCAPCSA | Head of chain of PESAs used to stack ap info over a link |
| (3C) | CHARACTER | 12 | TCAPCTWA | PROGRAM CONTROL WORK AREA |
| (3C) | ADDRESS | 4 | * | Reserved |
| (40) | ADDRESS | 4 | TCAPCHS | HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS |
| TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY APPLICATION PROGRAMS TO MAKE THEM REENTRANT. FOR PL/I IT IS THE CHAIN OF PL/I DSA'S (ALSO CALLED TCAPCPA) FOR COBOL IT IS THE TGT AND(FOR EXEC)WS (ALSO CALLED TCAPCCA) FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER FOR RPG IT IS THE ENTIRE PROGRAM | | | | |
| (44) | CHARACTER | 4 | TCAPCPA | PL/I ACQUIRED AREA ADDRESS |
| (44) | CHARACTER | 4 | TCAPCCA | COBOL ACQUIRED AREA ADDRESS |
| (44) | ADDRESS | 4 | TCAPCDSA | DYNAMIC STORAGE HEADER ADDRESS |
| (48) | ADDRESS | 4 | * | Reserved |
| (4C) | CHARACTER | 8 | TCAPCIPN | Name of invoking program after DPL from client |
| TRANSIENT DATA SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSTD | | | | |
| DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA | | | | |
| TRANSIENT DATA SECTION | | | | |
| (54) | ADDRESS | 4 | TCAIDAA | INTRAPARTITION DATA AREA |
| BASIC MAPPING SUPPORT | | | | |
| CONTROL BLOCK NAME = DFHTCSBM | | | | |
| DESCRIPTIVE NAME = CICS DFHBMS System Overlay of the DFHTCA | | | | |
| BASIC MAPPING SUPPORT | | | | |
| (58) | ADDRESS | 4 | TCAOSPWA | OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS) |
| (5C) | ADDRESS | 4 | * | Reserved |
| (60) | BITSTRING | 1 | * | Reserved |
| (61) | CHARACTER | 2 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (63) | BITSTRING | 1 | TCADLII | DL/I INDICATOR |
| | 1... .. | | TCADLISI | DL/I SCHEDULING INITIATED |
| | .111 1111 | | * | Reserved |
| (64) | FULLWORD | 4 | * | Reserved |
| RECOVERY / RESTART SECTION | | | | |
| CONTROL BLOCK NAME = DFHTCSP | | | | |
| DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA | | | | |
| RECOVERY / RESTART SECTION | | | | |
| (68) | BITSTRING | 1 | TCAZLUWD | TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION |
| | 1... .. | | TCAZAKPT | Activity keypoint |
| | .111 1111 | | * | Reserved |
| (69) | BITSTRING | 1 | TCAZLUWT | TASK'S LUW STATUS |
| | 1... .. | | TCAZRRD | A READ HAS OCCURRED IN THIS LUW |
| | .1.. .. | | TCAZRWRT | A WRITE HAS OCCURRED IN THIS LUW |
| | ..1. | | TCAZINDT | Next SHUNT is 'in-doubt' |
| | ...1 1... | | * | Reserved |
| |1.. | | TCAZDLIC | DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED |
| |11 | | * | Reserved |
| (6A) | BITSTRING | 1 | TCABRPS | Rollback status |
| | 11.. | | * | Reserved |
| | ..1. | | TCABRPSR | Backout-Reqd prog state |
| | ...1 1111 | | * | Reserved |
| (6B) | CHARACTER | 1 | * | Reserved |
| (6C) | ADDRESS | 4 | TCADWASV | SAVE ADDR OF DWE CHN. |
| (70) | CHARACTER | 12 | * | Reserved |
| (7C) | CHARACTER | 4 | TCAORABC | ORIGINAL ABEND CODE |
| (7C) | CHARACTER | 4 | TCADBABC | ABEND CODE OF APPLICATION. |
| (80) | BITSTRING | 1 | TCATRTO | TERMINAL READ TIME OUT VALUE |
| (81) | BITSTRING | 1 | TC AFLAGS | MISCELLANEOUS FLAGS |
| | 1... .. | | * | Reserved |
| | .1.. | | TCANOTRC | SUPPRESS TRACE FOR TASK |
| | ..1. | | * | Reserved |
| | ...1 | | TCASZUSE | FEPI Access in Task |
| | 1... | | * | Reserved |
| |1.. | | TC AUKCAL | MAKE CALL IN USER KEY |
| |1. | | * | Reserved |
| |1 | | TC AJVMXT | system.exit from JVM |
| (82) | BITSTRING | 1 | TCASCS | SCREEN SIZE SELECTION ETC |
| | 1... .. | | TC AFASTL | FAST LINK to DFHMIRS |
| | .111 | | * | Reserved |
| | 1... | | TC ASCSA | ALTERNATE SCREEN SIZE |
| |1.. | | * | Reserved |
| |1. | | TC APRTCM | BMS TEXT PRINTER COMPATIBILITY |
| |1 | | TC ATCABT | DFHACP abending flag |
| (83) | BITSTRING | 1 | TC AIRTCD | INTER REGION RETURN CODE |
| (84) | ADDRESS | 4 | TCARLB | Address of TMP lock block |
| (88) | ADDRESS | 4 | TC AEMSSV | SAVE AREA FOR DFHEMS |
| (8C) | BITSTRING | 1 | * | Reserved |
| (8D) | BITSTRING | 1 | * | Reserved |
| (8E) | CHARACTER | 1 | * | Reserved |
| (8F) | BITSTRING | 1 | TC AEISFL | EXEC CICS I/F FLAG |
| (90) | ADDRESS | 4 | TC AEISA | EXEC CICS I/F STRUCT ADDR |
| (94) | ADDRESS | 4 | TC ACAAAD | LE/370 Anchor Address |
| (98) | ADDRESS | 4 | TC ACEEPT | LE/370 Parameter List Address * |
| (9C) | ADDRESS | 4 | TC AREGPT | EXEC CICS registers |
| (A0) | ADDRESS | 4 | TC AIIIRE | Ill task return addr |
| (A4) | ADDRESS | 4 | TC ALTGET | LIFO PUSH ROUTINE(=CSALFNAC) * SEE...TCALTFRE BELOW. |
| (A8) | FULLWORD | 4 | * | Reserved |
| (AC) | FULLWORD | 4 | * | Reserved |
| (B0) | CHARACTER | 4 | TC AKCTTI | Assigned transaction id |
| (B4) | ADDRESS | 4 | TC ATCUCN | TCTTE USER CHAIN FIELD. |
| (B8) | ADDRESS | 4 | * | Reserved |
| (BC) | ADDRESS | 4 | TC AXFS23 | XFSTG FOR TRANSFORMATION 2 AND 3 |
| (C0) | ADDRESS | 4 | TC ARSBA | ADDRESS OF REMOTE SCHEDULING BLOCK |
| (C4) | CHARACTER | 4 | TC AKCOID | ID WHICH ORIGINATED TASK |
| (C8) | BITSTRING | 1 | TC ADLIST | DLI STATUS INFORMATION |
| | 1... .. | | TC AUIBAQ | UIB ACQUIRED |
| | .111 | | * | Reserved |
| | 1... | | TC AEXDLI | EXEC DLI |
| |1.. | | * | Reserved |
| |1. | | TC AREMOT | REMOTE |
| |1 | | TC ADBCTL | DBCTL |
| (C9) | CHARACTER | 2 | TC AACMSG | DFHACP MSG NUMBER |
| (CB) | BITSTRING | 1 | TC AAPFLG | AP DOMAIN FLAGS @BA81573C |
| | 1... .. | | TC ARSREQ | RESUME REQUIRED |
| | .1.. | | TC AXMSOT | APXMI should invoke APXM |
| | ..1. | | TC AROUTE | Transaction route attach has been sent to a remote CICS system |
| | ...1 1111 | | * | Reserved |
| (CC) | CHARACTER | 2 | * | Reserved |
| (CE) | BITSTRING | 1 | * | Reserved |
| (CF) | BITSTRING | 1 | TC AAAM | APPLICATION ADDRESSING MODE NB BITS 1 - 7 OF BYTE TCAAAM MUST BE ZERO |
| | 1... .. | | TC AAAM31 | 31-BIT MODE |
| (D0) | ADDRESS | 4 | * | Reserved |
| (D4) | CHARACTER | 4 | TC ACRABC | CURRENT ABEND CODE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| (D4) | CHARACTER | 4 | TCAPCABC | CURRENT ABEND CODE |
| (D8) | CHARACTER | 3 | * | Reserved |
| (DB) | CHARACTER | 1 | TCAIACB | ABEND CONTROL BLOCK STATUS * |
| (DC) | ADDRESS | 4 | TCAPCACB | ABEND CONTROL BLOCK ADDRESS |
| (E0) | CHARACTER | 4 | TCASENSE | SENSE FIELDS |
| (E0) | CHARACTER | 2 | TCASS1 | SYSTEM SENSE |
| (E2) | CHARACTER | 2 | TCAUS1 | USER MSG NO. |
| (E4) | ADDRESS | 4 | TCATIEBA | TIE CHAIN FOR API ROUTER |
| (E8) | ADDRESS | 4 | TCADMTLA | ADDRESS OF CSD MANAGER TASK LOCAL STORAGE |
| (EC) | FULLWORD | 4 | TCATRRRC | Transaction Routing RC |
| (F0) | CHARACTER | 8 | * | Reserved |
| (F8) | ADDRESS | 4 | TCAJVMTK | Token for JVM instance |
| (FC) | ADDRESS | 4 | TCAPCXA | PROGRAM LOAD POINT ADDRESS |
| (100) | CHARACTER | 8 | TCATRRSN | RESOURCE NAME |
| BASIC MAPPING SUPPORT FAST PATH FIELDS. | | | | |
| (108) | CHARACTER | 8 | TCABMMSN | SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET |
| (110) | ADDRESS | 4 | TCABMMSA | ADDRESS OF MOST RECENT BMS MAPSET |
| (114) | CHARACTER | 1 | TCABMMW | WIDTH OF MOST RECENT BMS MAP |
| (115) | CHARACTER | 1 | TCABMMH | HEIGHT OF MOST RECENT BMS MAP |
| (116) | CHARACTER | 1 | TCABMMC | COLUMN POSITION MOST RECENT BMS MAP |
| (117) | CHARACTER | 1 | TCABMML | LINE POSITION MOST RECENT BMS MAP |
| LU6.2 INFORMATION | | | | |
| (118) | ADDRESS | 4 | TCAALUCX | ADDRESS OF LU6.2 EXTENSION |
| (11C) | ADDRESS | 4 | * | Reserved |
| (120) | CHARACTER | 4 | * | Reserved |
| (124) | FULLWORD | 4 | TCATMRLP | TMP read lock list addr. |
| (128) | ADDRESS | 4 | * | Reserved |
| (12C) | ADDRESS | 4 | * | Reserved |
| (130) | ADDRESS | 4 | TCALTFRE | LIFO POP ROUTINE ADDRESS = CSALFXAC SEE...TCALTGET ABOVE. |
| (134) | CHARACTER | 4 | TCAICREQ | REQID from an IC START |
| TASK CONTROL - TABLE MANAGER INTERFACE | | | | |
| (138) | BITSTRING | 1 | TCAALFLG | Flag byte used by DFHALP |
| | 1... | | TCAALRES | A RESUME is required |
| | .111 1111 | | * | Reserved |
| (139) | CHARACTER | 3 | * | Reserved |
| (13C) | ADDRESS | 4 | TCADOMPM | USED as plist addr |
| (140) | CHARACTER | 8 | * | Reserved |
| (148) | FULLWORD | 4 | *(4) | Reserved |
| (158) | CHARACTER | 8 | TCATRIDQ | TRACE ID QUALIFIER |
| (160) | ADDRESS | 4 | * | Reserved |
| (164) | FULLWORD | 4 | * | Reserved |
| (168) | CHARACTER | 28 | * | Reserved |
| (184) | ADDRESS | 4 | * | Reserved |
| TRANSIENT DATA | | | | |
| CONTROL BLOCK NAME = DFHTC2TD | | | | |
| DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA | | | | |
| TRANSIENT DATA - NEW 1.7 FIELDS | | | | |
| (188) | CHARACTER | 4 | TCADSTID | TRANSIENT DATA DESTID |
| (18C) | CHARACTER | 1 | TCATDFLG | TRANSIENT DATA FLAGS |
| (18D) | CHARACTER | 1 | *(3) | RESERVED |
| SPECIAL FEATURES | | | | |
| (190) | ADDRESS | 4 | TCAPSDBA | BASE POINTER FOR TASK PDB CHAIN FOR MVS * |
| (190) | ADDRESS | 4 | TCAPSS | BASE POINTER FOR TASK PSS CHAIN FOR DOS * |
| (190) | ADDRESS | 4 | TCAPSTBA | BASE POINTER FOR TASK PST CHAIN FOR DOS * |
| (194) | CHARACTER | 4 | * | Reserved |
| (198) | CHARACTER | 10 | * | Reserved |
| Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts | | | | |
| (1A2) | BITSTRING | 1 | TCAAPRTF | Transaction Routing parameter flags |
| | 1... | | TCAPRIP | Priority is to be passed to the AOR |
| | .1. | | TCASYSNP | Applid present |
| | ..1. | | TCARTST | Routable start |
| | ...1 | | TCATRMNP | Terminal netname present |
| | ... 1111 | | * | Reserved |
| (1A3) | UNSIGNED | 1 | TCATRPRI | Priority value to pass to AOR |
| (1A4) | ADDRESS | 4 | TCADSBA | DBCTL SCHEDULING BLOCK ADDRESS * |
| (1A8) | CHARACTER | 4 | TCADLUIB | USER INTERFACE BLOCK (UIB) * |
| (1A8) | ADDRESS | 4 | TCADLIBA | UIB ADDRESS |
| (1AC) | ADDRESS | 4 | TCAAPRET | return address for DETACH |
| (1B0) | CHARACTER | 8 | TCAPLAN | DB2 plan in use if any |
| (1B8) | CHARACTER | 8 | TCATRMNE | Terminal netname |
| (1C0) | CHARACTER | 8 | * | Reserved |
| (1C8) | CHARACTER | 4 | TCASUTOK | suspend/resume token for general AP use |
| (1CC) | ADDRESS | 4 | TCAEIUSA | A(EIUS). The user part of the EXEC CICS interface structure |
| (1D0) | CHARACTER | 8 | TCASYUNE | Applid of owning Terminal |
| CPI-C | | | | |
| (1D8) | ADDRESS | 4 | TCACPCCN | base pointer for CPC chain |
| (1DC) | ADDRESS | 4 | TCATRU24 | Head of TRUE save area |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------|
| (1E0) | CHARACTER | 4 | * | Reserved |
| (1E4) | CHARACTER | 4 | * | Reserved |
| FIELDS FOR USE BY DFHSRP (24 BYTES) | | | | |
| (1E8) | CHARACTER | 24 | TCASRDAT | Fields for SRP use only |
| (1E8) | CHARACTER | 8 | TCASRPGM | Name of abended program |
| (1F0) | CHARACTER | 8 | TCASRPCD | Kernel error code xxx/yyyy |
| (1F0) | CHARACTER | 3 | TCASYABD | xxx |
| (1F3) | CHARACTER | 1 | * | / |
| (1F4) | CHARACTER | 4 | TCATRABD | yyyy |
| (1F8) | FULLWORD | 4 | TCASROFF | Offset of abend in program |
| (1F8) | ADDRESS | 4 | TCAKEDAD | -> Kernel error data copy |
| (1FC) | BITSTRING | 1 | TCASRFLG | SRP flag byte |
| | | | 1... .. | TCASRDMP |
| | | | .1. | TCAEMSIC |
| | | | ..1. | TCACELCK |
| | | | ...1 | TCASRPLI |
| | | | 1... | TCASRAP |
| | | |1.. | TCACHKAD |
| | | |11 | * |
| (1FD) | UNSIGNED | 1 | TCASRLOC | Abend in application? |
| (1FE) | BITSTRING | 2 | TCASREXC | EXC trace point id |
| FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES | | | | |
| (200) | CHARACTER | 4 | TCARMTRA | Remote Transaction name |
| (204) | CHARACTER | 4 | TCARMSYS | Remote System name |
| END OF SYSTEM AREA | | | | |
| (208) | CHARACTER | | TCAEND | T C A STORAGE AREA DISPLACEMENT |

TCPRA Receive any control element

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BI-LINGUAL Control Block
=====

MODULE NAME = DFHTCPRA

DESCRIPTIVE NAME = CICS Receive Any Control Element

FUNCTION =
Receive Any Control Elements (RACE) are obtained at initialisation
time by DFHZRPL.
Each element is a control block used when processing a
Receive Any RPL. The RACE contains the ECB and a pointer to the
RPL. RACES are contained in a pool pointed to by the TCTVRVRA field
of the terminal control table prefix.

=====

Receive Any Pool
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 32 | DFHTCPRA | |
| (0) | CHARACTER | 4 | TCTVRAPS | Receive Any Pool start |
| (0) | UNSIGNED | 1 | TCTVRAB | Receive Any control byte |
| | | | 1... .. | TCTVRRS |
| | | | .1. | TCTVRQP |
| | | | ..1. | TCTVRAG |
| | | | ...1 | TCTVLRP |
| | | | 1... | TCTVRAI |
| | | |1.. | TCTVROL |
| | | |1 | TCTVRGM |
| | | |1 | TCTVRAA |
| (1) | UNSIGNED | 1 | TCTVRAB2 | Receive Any control byte 2 |
| | | | 1... .. | TCTVWBC |
| | | | .1. | TCTVCMR |
| | | | ..1. | TCTVRSN |
| | | | ...1 | TCTVSRA |
| | | | 1... | TCTVIAP |
| | | |1.. | TCTVSAS |
| | | |1 | TCTVEXC |
| | | |1 | TCTVCFO |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-----------------------------|
| (2) | HALFWORD | 2 | TCTVRAGN | Number of bytes for GETMAIN |
| (4) | ADDRESS | 4 | TCTVRAL | Receive Any RPL address |
| (8) | UNSIGNED | 4 | TCTVRAEB | Receive Any ECB @P4C |
| | 1... .. | | TCTVRAEB_WAITING | ECB in waiting state @P4A |
| | .1.. .. | | TCTVRAEB_POSTED | ECB in posted state @P4A |
| (8) | BITSTRING | 3 | * | @02C |
| (C) | ADDRESS | 4 | TCTVRAF1 | Reserved @02A |
| (10) | ADDRESS | 4 | TCTVRAF2 | Reserved @02A |
| (14) | ADDRESS | 4 | TCTVRAF3 | Reserved @02A |
| (18) | CHARACTER | 8 | TCTVRATI | TOD at time send issued |

TCRWE Remote install work element

CONTROL BLOCK NAME = DFHTCRWE
 DESCRIPTIVE NAME = CICS/ESA Remote Install Work Element
 FUNCTION = Store remote install/remote delete data for use by module DFHZATS. The DSECT is used exclusively by DFHZTSP DFHCRS and DFHZATS.
 The WE contains:
 FIELD LENGTH
 =====
 Request type 1 byte
 ECB 1 byte
 Reserved 2 bytes
 Terminal ID 4 bytes
 Remote system ID 4 bytes
 TCSE address 4 bytes
 Netname 8 bytes
 Pointer to BPS 4 bytes
 New TCTTE address 4 bytes
 Token 8 bytes
 LIFETIME = Storage is obtained by a GETMAIN issued by the calling module (DFHZTSP or DFHCRS) and released by a FREEMAIN following completion or failure of the remote install or remote delete. In the event of the calling program ABENDING before completion of the remote install or delete storage is released by DFHZATS.
 STORAGE CLASS = Shared
 LOCATION = The address is placed in TCAFCAAA for retrieval by DFHZATS
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = DSECT
 PLS DECLARATION OF THE REMOTE WORK ELEMENT

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 56 | TCTRWE | |
| (0) | CHARACTER | 1 | RWETYPE | Request type |
| (1) | CHARACTER | 1 | RWEECB | ECB |
| | 1... .. | | RWEIHA | Initiating program has ABENDED |
| | .1.. .. | | RWEPOST | TCTTE built OK |
| | .1.. .. | | RWESHA | Remote install prog. ABENDED |
| | ...1 .. | | RWEDUP | Duplicate TCTTE found |
| | 1.. | | * | Reserved |
| |1.. | | RWETOK | TCTTE has a token |
| |1 | | RWEBITM | RT bit map used |
| |1 | | * | Reserved |
| (2) | BITSTRING | 1 | RWE_FLAG | Input flags |
| | 1... .. | | RWERSE | Remote system entry |
| | .1.. .. | | RWESTERM | Shipped terminal definition@L3M |
| | .1.. .. | | RWE_VT | Virtual Terminal |
| (3) | CHARACTER | 1 | RWEPAD | Reserved |
| (4) | CHARACTER | 52 | RWEVAR | |
| (4) | CHARACTER | 4 | RWETERM | Terminal ID |
| (8) | CHARACTER | 4 | RWESID | Remote system ID |
| (C) | ADDRESS | 4 | RWESADDR | TCSE address |
| (10) | CHARACTER | 8 | RWENETN | Netname |
| (18) | ADDRESS | 4 | RWEBPS | Address of BPS |
| (1C) | ADDRESS | 4 | RWETCTAD | New TCTTE address |
| (20) | CHARACTER | 8 | RWETOKEN | Token |
| (28) | CHARACTER | 8 | RWECORID | Correlation Id of terminal |
| (30) | CHARACTER | 8 | RWENETOR | TOR Netname |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|---------|-----------------------|
| 1 | HEX | 08 | RWEINST | Install requested |
| 1 | HEX | 04 | RWEDEL | Remote delete request |
| 1 | HEX | 02 | RWEMDEL | Mass delete request |
| 1 | HEX | 01 | RWEFDEL | Mass flag request |

TCTFX Terminal control table prefix

CONTROL BLOCK NAME = DFHTCTFS
 DESCRIPTIVE NAME = CICS TERMINAL CONTROL TABLE PREFIX
 FUNCTION = The TCT Prefix is the anchor block for Terminal
 Control. It is used by most TC and ZC modules.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|------------|--------------------------------|
| (0) | STRUCTURE | 904 | DFHTCTFX | TCT Prefix |
| Addresses of key areas | | | | |
| (0) | ADDRESS | 4 | TCTVWLA | Address of the wait list |
| (4) | ADDRESS | 4 | TCTVWLA1 | First non-VTAM wait list entry |
| (8) | ADDRESS | 4 | TCTVCSAA | Pointer to CSA address |
| (C) | ADDRESS | 4 | TCTVCSAD | CSA address saved by SIF1 |
| (10) | ADDRESS | 4 | TCTVADCB | A(non VTAM OPN/CLS list) |
| (14) | ADDRESS | 4 | TCTVTIHA | Address of term id hash list |
| (18) | ADDRESS | 4 | TCTVTATA | Address of term id addr table |
| (1C) | ADDRESS | 4 | TCTVTEBA | Address of first TCTTE |
| (20) | FULLWORD | 4 | TCTVDRSA | Dispatcher base reg. save |
| (24) | ADDRESS | 4 | TCTVDMTE | Address of dummy terminal |
| (28) | ADDRESS | 4 | TCTVRSAA | Address of reg. save stack |
| (2C) | FULLWORD | 4 | TCTVCNTE | Current NACP term entry addr. |
| (30) | CHARACTER | 8 | TCTVLVLR | CICS functions required |
| (38) | ADDRESS | 4 | TCTVMODL | Address of module list |
| (3C) | ADDRESS | 4 | TCTVSEBA | Address of first System Entry |
| (40) | CHARACTER | 4 | TCTVZQTI | Resource name for BPS trace |
| (44) | ADDRESS | 4 | TCTVATTB | Address of attach tables |
| (48) | CHARACTER | 4 | TCTVLVL | ASM time release level |
| (4C) | CHARACTER | 8 | TCTVLVLI | ASM time functions support |
| (54) | CHARACTER | 8 | TCTVLVLM | CICS functions supported |
| (5C) | CHARACTER | 8 | TCTVLVLB | RUN-TIME function support |
| (5C) | BITSTRING | 1 | TCTVLVL0 | Function support byte 0 |
| (5D) | BITSTRING | 1 | TCTVLVL1 | Function support byte 1 |
| | | | * | 80 |
| | | | * | 40 |
| | | | * | 20 |
| | | | * | 10 |
| | | | TCTVUSFD | 08 ACB USERFLD supported |
| | | | * | 04 |
| | | | * | 02 |
| | | | TCTVLUNS | 01 Resource ID vector |
| (5E) | BITSTRING | 1 | TCTVLVL2 | Function support byte 2 |
| | | | * | 80 |
| | | | * | 40 |
| | | | * | 20 |
| | | | TCTVXRFS | 10 VTAM API is XRF capable |
| | | | TCTVCLSS | 08 CLSDST sense codes supptd |
| | | | TCTVSSON | 04 Sending SONCODE supported |
| | | | TCTVSLHO | 02 SETLOGON HOLD supported |
| | | | * | 01 |
| (5F) | BITSTRING | 1 | TCTVLVL3 | Function support byte 3 |
| | | | TCTV31BA | 80 31-bit addr support |
| | | | TCTVQRN | 40 Queued response NOTFN |
| | | | * | 20 |
| | | | TCTVUVAR | 10 INQUIRE USERVAR supp. |
| | | | * | 08 |
| | | | * | 04 |
| | | | * | 02 |
| | | | * | 01 |
| (60) | BITSTRING | 1 | TCTVLVL4 | Function support byte 4 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------|--|
| | 1... .. | | * | 80 |
| | .1.. .. | | TCTVPLUS | 40 Per. Sess. terminals supported |
| | ..1. | | * | 20 |
| | ...1 | | * | 10 |
| | 1... | | TCTVPLUT | 08 Per. Sess. APPC, LU61 & terminals supported |
| |1.. | | * | 04 |
| |1. | | * | 02 |
| |1 | | * | 01 |
| (61) | BITSTRING | 1 | TCTVLVL5 | Function support byte 5 |
| | 1... .. | | * | 80 |
| | .1.. .. | | * | 40 |
| | ..1. | | * | 20 |
| | ...1 | | * | 10 |
| | 1... | | * | 08 |
| |1.. | | * | 04 |
| |1. | | * | 02 |
| |1 | | * | 01 |
| (62) | BITSTRING | 1 | TCTVLVL6 | Function support byte 6 |
| | 1... .. | | * | 80 |
| | .1.. .. | | * | 40 |
| | ..1. | | * | 20 |
| | ...1 | | * | 10 |
| | 1... | | * | 08 |
| |1.. | | * | 04 |
| |1. | | * | 02 |
| |1 | | * | 01 |
| (63) | BITSTRING | 1 | TCTVLVL7 | Function support byte 7 |
| | 1... .. | | * | 80 |
| | .1.. .. | | * | 40 |
| | ..1. | | * | 20 |
| | ...1 | | * | 10 |
| | 1... | | * | 08 |
| |1.. | | * | 04 |
| |1. | | * | 02 |
| |1 | | * | 01 |
| (64) | BITSTRING | 1 | TCTVPNTK | Print key value |
| (65) | BITSTRING | 1 | TCTVEODI | BSAM End of Device Ind |
| (66) | UNSIGNED | 2 | TCTVSKLN | Number of remote terminals |
| (68) | ADDRESS | 4 | TCTVSKAD | Address of 'REMOTE' index |
| (68) | ADDRESS | 4 | TCTVPOOL | 'Til TCRP. then anchor for chain of PIPELINE POOLS |
| (6C) | ADDRESS | 4 | TCTVMDAD | Address of model terminal entries |
| (70) | ADDRESS | 4 | TCTVMDND | End of model entries |
| (74) | ADDRESS | 4 | TCTVDSPA | Address of ZDSP DSSR plist |
| (78) | ADDRESS | 4 | TCTVSUT | Suspend token for DFHZNAC |
| (7C) | ADDRESS | 4 | TCTVVPLS | Saved VTAM parm list addr |
| (80) | ADDRESS | 4 | TCTV_APPC_BITMAP | APPC Session BITMAP ptr |
| (84) | ADDRESS | 4 | TCTV_MRO_BITMAP | MRO session name BITMAP |
| (88) | ADDRESS | 4 | TCTVADEF | Address of AUTODEF 'extension' |
| (8C) | HALFWORD | 2 | TCTVTCNT | Task count for ZRAC |
| (8E) | HALFWORD | 2 | TCTVNQCT | ENQ count for TCTI NAMESPACE |
| (90) | HALFWORD | 2 | TCTVNPRC | 'no primed' RPLs' count |
| This area (from TCTV_TRACE to TCTV_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (92) | CHARACTER | 14 | TCTV_TRACE | TCT prefix trace area |
| (92) | BITSTRING | 1 | * | HPO & shutdown flags |
| | 1... .. | | TCTVHPOA | 80 HPO active in system |
| | .1.. .. | | TCTVSLS | 40 DFHZSLS entered |
| | ..1. | | TCTV_RA_STALL | 20 All RAs stuck |
| | ...1 | | TCTVSLR | 10 Shutdown LR CNOS in prog |
| | 1... | | TCTVSHM | 08 Shutdown message issued |
| |1.. | | TCTVSLG | 04 SETLOGON quiesce issued |
| |1. | | TCTVSHU | 02 DFHZSHU control flag |
| |1 | | TCTVNATF | 01 No attaches this dispatch |
| (93) | BITSTRING | 1 | TCTVSDST | Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc... |
| (94) | BITSTRING | 1 | TCTVSCSW | Start up & close down switch |
| | 1... .. | | TCTVDC | 80 TPEND exit invoked |
| | .1.. .. | | TCTVDO | 40 DYNAMIC OPEN invoked |
| | ..1. | | TCTVVSG | 20 VTAM TCTTEs generated |
| | ...1 | | TCTVOA | 10 ACB open |
| | 1... | | TCTVVFQ | 08 VTAM is quiesced |
| |1.. | | TCTVVTHA | 04 VTAM ABENDED |
| |1. | | TCTVVTHQ | 02 Quick VTAM close |
| |1 | | TCTVVTHO | 01 Orderly VTAM close |
| TCTVVTQS EQU TCTVVTHO+TCTVVTHQ+TCTVVTHA VTAM quiescing. | | | | |
| (95) | BITSTRING | 1 | TCTVRESP | SYS +resp level used byte |
| | 1... .. | | TCTVFC | 80 FORCECLOSE requested |
| | .1.. .. | | TCTVAF | 40 ACB close failed |
| | ..1. | | TCTVCIQ | 20 CICS INIT'D ZC CLOSE |
| | ...1 | | * | 10 |
| | 1... | | TCTVFME | 08 Use FME outbound |
| |1.. | | TCTVRRN | 04 Use RRRN outbound |
| |1. | | TCTVISC | 02 ISC modules loaded |
| |1 | | TCTVBFQ | 01 Non VTAM quiesce |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------|---|
| (96) | BITSTRING | 1 | TCTVSQUE | System service queue controls |
| | 1... .. | | TCTVNAC | 80 NACP already scheduled |
| | .1.. .. | | * | 40 |
| | ..1. | | TCTVVAP | 20 VTAM authorised path |
| | ...1 | | TCTVVRZ | 10 RPL for ZDSP from ZHPRX |
| | 1... | | TCTVXNP | 08 New work for NACP |
| |1.. | | TCTVNSU | 04 DFHZNAC suspended |
| |1. | | TCTVNOP | 02 OPDLIM NOT REQ. |
| |1 | | * | 01 |
| (97) | BITSTRING | 1 | TCTVAPPL | Length of APPLID |
| (98) | CHARACTER | 8 | TCTVAPPN | VTAM APPLID |
| TCTV_TRACE_LEN End of prefix trace area | | | | |
| (A0) | ADDRESS | 4 | TCTVLUN | Address of VTAM LU name |
| (A4) | ADDRESS | 4 | TCTVIRCH | Address of first IRC TCSE |
| (A4) | ADDRESS | 4 | TCTV_MRO_HEAD | Alternative name for TCTVIRCH |
| (A8) | ADDRESS | 4 | TCTVSLUT | Address of LDC lookup-table |
| (AC) | CHARACTER | 3 | TCTVNQTI | TASKID with TCTI NAMESPACE lock |
| (AF) | BITSTRING | 1 | * | XRF bit |
| | 1... .. | | TCTVXBC | 80 DFHTCBP completed |
| | .1.. .. | | TCTVXRT | 40 CEMT P SHUT TAKEOVER |
| | ..1. | | TCTVXTS | 20 Terminal sw scan begun |
| | ...1 | | * | 10 |
| | 1... | | * | 08 |
| |1.. | | * | 04 |
| |1. | | * | 02 |
| |1 | | * | 01 |
| (B0) | HALFWORD | 2 | TCTVXSBC | No. STANDBY BOUND sessions |
| (B2) | CHARACTER | 2 | TCTVCUID | Current/last XRF catch up ID. |
| (B4) | ADDRESS | 4 | TCTVMGRP | Address of first mode entry |
| 3270 command constant area | | | | |
| (B8) | CHARACTER | | * | Alignment |
| (B8) | BITSTRING | 1 | TCTV32EA | Erase unprotected '6F' |
| (B9) | BITSTRING | 1 | TCTV32RB | Read buffer 'F2' |
| (BA) | BITSTRING | 2 | TCTV32PT | Print 'F1F8' |
| (BC) | BITSTRING | 2 | TCTV32P4 | Print model one 'F1D8' |
| (BE) | HALFWORD | 2 | TCTVSLCT | LDC look-up count |
| (C0) | ADDRESS | 4 | TCTVTRTA | Address of translate tables |
| OS Console Support area | | | | |
| (C4) | ADDRESS | 4 | TCTVSECB | System communication ECB |
| (C8) | ADDRESS | 4 | TCTVCSCCL | Cmdnd scheduler commun. list |
| (CC) | ADDRESS | 4 | TCTVWLSE | Wait list entry |
| (D0) | ADDRESS | 4 | TCTVCCE | First Console Control Element |
| (D4) | ADDRESS | 4 | TCTVTCT | First Console TCTTE |
| (D8) | ADDRESS | 4 | TCTVCDME | Dummy ECB |
| (DC) | ADDRESS | 4 | TCTVCWA | Console Work Area |
| (E0) | CHARACTER | 8 | TCTVJBNM | CICS system jobname |
| OS Console flags | | | | |
| (E8) | BITSTRING | 1 | TCTVCONF | Console flag byte |
| | 1... .. | | * | 80 |
| | .1.. .. | | * | 40 |
| | ..1. | | TCTV_CCE_TASK | 20 ZCNA task loop reqd. |
| | ...1 | | TCTV_CCE_ATI | 10 ZCNA ATI loop reqd. |
| | 1... | | TCTVCFQ | 08 Quiesce is COMPLETE |
| |1.. | | TCTVCSQ | 04 Quiesce IN PROGRESS |
| |1. | | TCTVCNE | 02 DFHZCNC is ACTIVE |
| |1 | | TCTVCAC | 01 Console abnormal condition |
| (E9) | CHARACTER | 3 | * | Reserved |
| END OF COMMON SECTION | | | | |
| 2 PTR(31), @05C DELETED BY | | | | |
| (EC) | FULLWORD | 4 | TCTVSDXT | TC Shutdown, Threshold Expiration Time |
| (F0) | ADDRESS | 4 | TCTVRVRA | Addr of 'RVCE ANY' RPL pool |
| (F4) | ADDRESS | 4 | TCTVLNIB | Address of NIB list (INC IRC) |
| (F8) | ADDRESS | 4 | TCTVCNIB | Fixed NIB for LOGON X |
| (FC) | ADDRESS | 4 | TCTVACBA | Address of VTAM ACB/EXLST |
| (100) | ADDRESS | 4 | TCTVCRPL | CLSDST RPL for LOGON X |
| (104) | ADDRESS | 4 | TCTVSLDC | System default LDC table |
| (108) | ADDRESS | 4 | TCTVSLSS | SETLOGON START save area |
| (108) | ADDRESS | 4 | TCTVASRR | Save area for ACTIVATE SCAN |
| (10C) | ADDRESS | 4 | TCTVTCTE | End of TCT |
| Chain pointers for TCP | | | | |
| (110) | CHARACTER | | * | Double word alignment VTAM Activate process chain |
| (110) | FULLWORD | 4 | TCTVAA1 | First entry |
| (114) | FULLWORD | 4 | TCTVAA2 | Last entry VTAM Activate queueing chain |
| (118) | FULLWORD | 4 | TCTVAA3 | First entry |
| (11C) | FULLWORD | 4 | TCTVAA4 | Last entry LOGGING/ERROR queue chains |
| (120) | ADDRESS | 4 | TCTV_LU61_HEAD | LU61 system chain |
| (124) | ADDRESS | 4 | TCTV_REMDEL_HEAD | RemDel system chain |
| (128) | FULLWORD | 4 | * | Reserved |
| (12C) | FULLWORD | 4 | * | Reserved |
| (130) | FULLWORD | 4 | TCTVSRQ | System error Q for NACP First on queue |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|-----------------------|--|
| (134) | FULLWORD | 4 | TCTVSRQE | System error queue for NACP Last on queue |
| (138) | FULLWORD | 4 | TCTVPOAC | Previous TCTTE on Act. chain |
| (13C) | FULLWORD | 4 | TCTVRPLA | RPL QUICK-CELL chain anchor First on free queue |
| (140) | UNSIGNED | 1 | TCTV_ZBLX_ ERR_OFFSET | |
| (141) | CHARACTER | 7 | * | error offset in SCIP Reserved |
| VTAM control area pointers | | | | |
| (148) | ADDRESS | 4 | TCTVMNIB | Address of model NIBS |
| (14C) | ADDRESS | 4 | TCTVRPL2 | Address of RPL for VTAM 3270 |
| (150) | ADDRESS | 4 | TCTVRPLS | Address of RPL for RESETSR |
| (154) | ADDRESS | 4 | TCTVXQOA | Anchor for XRF TRACKINQ Q'S |
| (158) | HALFWORD | 2 | TCTVRPLN | RPL length |
| (15A) | HALFWORD | 2 | TCTVDOC | Dynamic open count |
| Process control switches 2 CHAR(2), DELETED BY | | | | |
| (15C) | UNSIGNED | 1 | TCTVSDWT | TC Shutdown Wait from SIT TCSWAIT |
| (15D) | BITSTRING | 1 | * | TC Shutdown Flag Byte |
| | 1... .. | | TCTVSDUB | 80 Action from SIT TCSACTN On = UNBIND Off = NONE or FORCE |
| | .1.. .. | | TCTVSDTFO | 40 Action from SIT TCSACTN On = FORCE Off = NONE or UNBIND |
| | ..1. | | TCTVSDTX | 20 Threshold Expired On = TC Shutdown end time expired (sessions hung) Off = TC Shutdown end time not expire |
| | ...1 | | TCTVSDTD | 10 Threshold Disabled On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced) |
| | 1... | | TCTVSDTD6 | 08 Threshold Disabled for LU62 and LU61 On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced) |
| |1.. | | TCTVSDTI | 04 Treshold Initiated On = TS Shutdown initiated and end time calculated Off = TC Shutdown not initiated, and no end time |
| |1. | | TCTVRAPLF | 02 On = RAPOOL FORCE |
| |1 | | TCTV_RA_2118_ISSUED | 01 On if RA STALL |
| (15E) | HALFWORD | 2 | TCTVRMAX | 'RCVE ANY' max size |
| (160) | HALFWORD | 2 | TCTVRMIN | 'RCVE ANY' min size |
| (162) | CHARACTER | 2 | TCTVRASW | 'RCVE ANY' stat work area PL2 |
| (164) | CHARACTER | 2 | TCTVRAHC | 'RCVE ANY' high water mark PL2 |
| (166) | CHARACTER | 2 | TCTVOCC | OPNDST/CLSDST reqt limit PL2 |
| (168) | CHARACTER | 4 | TCTVRANT | No. times high water hit PL4 |
| (16C) | FULLWORD | 4 | TCTVAPCC | Act. process chain DOS CCB |
| (16C) | FULLWORD | 4 | TCTVAPCE | VTAM Act. process chain ECB |
| (170) | CHARACTER | 128 | TCTVXRPL | RPL initialising mask area |
| VIO trace | | | | |
| (1F0) | UNSIGNED | 1 | TCTVIOBL | Max L2 VIO buffist entries |
| (1F1) | UNSIGNED | 1 | TCTVIOL1 | Max lev 1 VIO data length |
| (1F2) | HALFWORD | 2 | TCTVIOL2 | Max lev 2 VIO data length |
| ECB to prevent ZGRP running before ZSLS during startup | | | | |
| (1F4) | UNSIGNED | 4 | TCTV_ZSLS_ECB | Make ZGRP run after ZSLS |
| Addresses for SRB exits | | | | |
| (1F8) | FULLWORD | 4 | TCTVZHPR | Lock field for ZHPRX |
| SRB mode 'RCVE ANY' counts | | | | |
| (1FC) | CHARACTER | 2 | TCTVRAVC | Current active RA RPL count |
| (1FE) | CHARACTER | 2 | TCTVRAVL | Limit of active SRB mode RA |
| TCTVRARP is the anchor address for a chain of RPLs. | | | | |
| (200) | FULLWORD | 4 | TCTVRARP | 'RCVE ANY' RPL Q for ZHPRX |
| (204) | FULLWORD | 4 | TCTVRINC | 'RCVE ANY' RPL CDS counter |
| AUTOINSTALL data | | | | |
| (208) | FULLWORD | 4 | TCTVMXWE | Limit of concurrent requests |
| (20C) | FULLWORD | 4 | TCTVACWE | Number currently active |
| (210) | ADDRESS | 4 | TCTVANWE | Address of first WE ON chain |
| (214) | BITSTRING | 1 | TCTVADFG | Flag Byte |
| | 1... .. | | TCTVADEN | 80 external ENA\|DIS indicator |
| | .1.. .. | | TCTVADIN | 40 internal ENA\|DIS indicator |
| | ..1. | | TCTVADDF | 20 delayed delete failed |
| | ...1 | | TCTVNONO | 10 CLSDST PASS no notify |
| | 1... | | TCTVAIRU | 08 TCTTE can be reused (AILDELAY = 0) |
| |1.. | | TCTVSLHI | 04 SETLOGON HOLD done |
| |1. | | TCTVAITR | 02 Trace Autoinstall |
| (215) | CHARACTER | 8 | TCTVAXIT | User program name |
| (21D) | BITSTRING | 1 | TCTVAICN | Console autoinstall |
| | 1... .. | | TCTVAICE | 80 external ENA\|DIS |
| | .1.. .. | | TCTVAICA | 40 external AUTO |
| | ..1. | | TCTVAICY | 20 external YES\|NO |
| AUTOINSTALL Statistics information | | | | |
| (21E) | HALFWORD | 2 | TCTVADSH | Number of times max value reached |
| (220) | FULLWORD | 4 | TCTVADRJ | Number of requests rejected |
| (224) | FULLWORD | 4 | TCTVADLO | Number of delete's |
| (228) | HALFWORD | 2 | TCTVADAT | Total number of requests attempted |
| (22A) | HALFWORD | 2 | TCTVADPK | Peak concurrent requests |
| (22C) | HALFWORD | 2 | TCTVADPX | Incidence of peak requests |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------|-----------|-----|---------------|-----------------------------------|
| Fully Qualified LU Name | | | | |
| (22E) | BITSTRING | 1 | TCTVQLUL | Length of fully qualified LU name |
| (22F) | CHARACTER | 17 | TCTVQLUN | Fully qualified LU name |
| RSA for entry to TCP | | | | |
| (240) | CHARACTER | 72 | TCTVKRSA | Reg save area KCP to TCP |
| RSA for VTAM exit calls | | | | |
| (288) | FULLWORD | 4 | TCTVEVRA | Save area VTAM return address |
| (28C) | CHARACTER | 12 | TCTVERSA | RSA for VTAM exits |
| (298) | FULLWORD | 4 | TCTVER14 | Register 14 |
| (29C) | FULLWORD | 4 | TCTVER15 | Register 15 |
| (2A0) | FULLWORD | 4 | TCTVER0 | Register 0 |
| (2A4) | FULLWORD | 4 | TCTVER1 | Register 1 |
| (2A8) | FULLWORD | 4 | TCTVER2 | Register 2 |
| (2AC) | FULLWORD | 4 | TCTVER3 | Register 3 |
| (2B0) | FULLWORD | 4 | TCTVER4 | Register 4 |
| (2B4) | FULLWORD | 4 | TCTVER5 | Register 5 |
| (2B8) | FULLWORD | 4 | TCTVER6 | Register 6 |
| (2BC) | FULLWORD | 4 | TCTVER7 | Register 7 |
| (2C0) | FULLWORD | 4 | TCTVER8 | Register 8 |
| (2C4) | FULLWORD | 4 | TCTVER9 | Register 9 |
| (2C8) | FULLWORD | 4 | TCTVER10 | Register 10 |
| (2CC) | FULLWORD | 4 | TCTVER11 | Register 11 |
| (2D0) | FULLWORD | 4 | TCTVER12 | Register 12 |
| (2D4) | CHARACTER | 8 | TCTVWK1 | |
| (2DC) | CHARACTER | 80 | TCTVERS2 | RSA for SYNAD exit |
| (2DC) | CHARACTER | 12 | TCTVER2H | RSA for SYNAD exit |
| (2E8) | FULLWORD | 4 | TCTVER2E | Register 14 |
| (2EC) | FULLWORD | 4 | TCTVER2F | Register 15 |
| (2F0) | FULLWORD | 4 | TCTVER20 | Register 0 |
| (2F4) | FULLWORD | 4 | TCTVER21 | Register 1 |
| (2F8) | FULLWORD | 4 | TCTVER22 | Register 2 |
| (2FC) | FULLWORD | 4 | TCTVER23 | Register 3 |
| (300) | FULLWORD | 4 | TCTVER24 | Register 4 |
| (304) | FULLWORD | 4 | TCTVER25 | Register 5 |
| (308) | FULLWORD | 4 | TCTVER26 | Register 6 |
| (30C) | FULLWORD | 4 | TCTVER27 | Register 7 |
| (310) | FULLWORD | 4 | TCTVER28 | Register 8 |
| (314) | FULLWORD | 4 | TCTVER29 | Register 9 |
| (318) | FULLWORD | 4 | TCTVER2A | Register 10 |
| (31C) | FULLWORD | 4 | TCTVER2B | Register 11 |
| (320) | FULLWORD | 4 | TCTVER2C | Register 12 |
| (324) | CHARACTER | 1 | TCTVERS2_FLAG | Flag byte for RSA |
| | | | 1111 111. | Reserved |
| | | |1 | TCTVERS2_IN_USE |
| (325) | CHARACTER | 7 | * | Reserved |
| RSA stack for TCP calls | | | | |
| (32C) | ADDRESS | 4 | TCTVRSAP | RSA pointer initial value |
| (330) | CHARACTER | * | * | Word alignment |
| (330) | HALFWORD | 2 | TCTVVMOF | Offset of self in assembly |
| (332) | HALFWORD | 2 | TCTVSUFx | TCT suffix |
| (334) | CHARACTER | 4 | * | Double word alignment |
| (338) | FULLWORD | 4 | TCTVRSPC | TCP call save stack start |
| (338) | FULLWORD | 4 | TCTVRSBA | Start address for RSA stack |
| (338) | FULLWORD | 4 | TCTVRSID | Optional stack entry trace ID |
| (33C) | FULLWORD | 4 | TCTVRSRG | Start of stack of saved regs. |
| (33C) | FULLWORD | 4 | TCTVRS14 | Register 14 |
| (340) | FULLWORD | 4 | TCTVRS15 | Register 15 |
| (344) | FULLWORD | 4 | TCTVRS0 | Register 0 |
| (348) | FULLWORD | 4 | TCTVRS1 | Register 1 |
| (34C) | FULLWORD | 4 | TCTVRS2 | Register 2 |
| (350) | FULLWORD | 4 | TCTVRS3 | Register 3 |
| (354) | FULLWORD | 4 | TCTVRS4 | Register 4 |
| (358) | FULLWORD | 4 | TCTVRS5 | Register 5 |
| (35C) | FULLWORD | 4 | TCTVRS6 | Register 6 |
| (360) | FULLWORD | 4 | TCTVRS7 | Register 7 |
| (364) | FULLWORD | 4 | TCTVRS8 | Register 8 |
| (368) | FULLWORD | 4 | TCTVRS9 | Register 9 |
| (36C) | FULLWORD | 4 | TCTVRS10 | Register 10 |
| (370) | CHARACTER | 24 | * | Reserved space for RSA |
| (388) | CHARACTER | | TCTVRSEA | RSA stack entry ending address |

TCTVRSAZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (338) | STRUCTURE | 768 | * | |
| (338) | CHARACTER | 320 | * | 4 save areas for TCP calls |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------------|--|
| TC task ECBS | | | | |
| (478) | ADDRESS | 4 | TCTVINIT | TC initialisation TCA Address (posted by TCRP) |
| (47C) | ADDRESS | 4 | TCTVSTAT | |
| (47C) | ADDRESS | 4 | TCTVCECB | TC restart completion ECB |
| (480) | ADDRESS | 4 | TCTVOECB | TC open for business ECB |
| (480) | BITSTRING | 1 | * | |
| | 1... .. | | * | |
| | .1.. .. | | TCTVOPST | TC open for business post bit * |
| (484) | BITSTRING | 1 | TCTVRSTC | TC restart return code |
| (485) | CHARACTER | 1 | TCTVSTYP | TC restart start-type |
| (486) | HALFWORD | 2 | TCTVXREN | Current XRF reconn. try-number |
| (488) | UNSIGNED | 1 | TCTVSAPL | APPLID length |
| (489) | CHARACTER | 8 | TCTVSAPN | VTAM APPLID |
| (491) | BITSTRING | 1 | * | |
| | 1... .. | | TCTVLSY | 80 Local system entry exists |
| | .1.. .. | | TCTVRCC | 40 Reading CICS Catalog |
| | .1. | | TCTVALT | 20 TCRP was an alternate |
| | ...1 | | TCTVUALC | 10 TCTUA ANY\|BELOW |
| | 1... | | TCTVALTT | 08 Alternate tracking |
| |1.. | | * | |
| |1. | | * | |
| |1 | | TCTVUAKY | 01 indicates CICS key |
| (492) | HALFWORD | 2 | TCTVXPLC | Pending S/B logons count |
| (494) | ADDRESS | 4 | TCTVXPLE | Pending S/B logons ECB |
| XRF Terminal cleanup statistics | | | | |
| (498) | HALFWORD | 2 | TCTVX001 | CLEANUP ACTION=NONE |
| (49A) | HALFWORD | 2 | TCTVX002 | CLEANUP ACTION=CLEAR/SDT |
| (49C) | HALFWORD | 2 | TCTVX003 | CLEANUP ACTION=UNBIND |
| (49E) | HALFWORD | 2 | TCTVX004 | Reserved |
| (4A0) | CHARACTER | 2 | TCTVXSLM | Switch CMD pacing limit(PL2) |
| (4A2) | CHARACTER | 2 | * | Reserved - alignment |
| (4A4) | ADDRESS | 4 | TCTVXTSE | Track stream started ECB |
| ZC storage management | | | | |
| (4A8) | ADDRESS | 4 | TCTVSUBP | Address of SUBPOOL token |
| VTAM exit trace | | | | |
| (4AC) | ADDRESS | 4 | TCTVTRF | Address of NETNAME chain |
| (4B0) | ADDRESS | 4 | TCTVTRV | Variable S/POOL TOKEN pointer |
| (4B4) | ADDRESS | 4 | TCTVTRXA | Trace entry build area ptr. A |
| (4B8) | ADDRESS | 4 | TCTVTRXB | Trace entry build area ptr. B |
| (4BC) | ADDRESS | 4 | TCTVTRXC | Trace entry build area ptr. C |
| (4C0) | ADDRESS | 4 | TCTVTRXD | Trace entry build area ptr. D |
| (4C4) | ADDRESS | 4 | TCTVTRXE | Trace entry build area ptr. E * |
| (4C8) | FULLWORD | 4 | TCTVTRC | Terminal exit trace count |
| (4CC) | FULLWORD | 4 | TCTVRLCT | OPNDLIM count |
| (4D0) | BITSTRING | 1 | * | Exit trace flags |
| | 1... .. | | TCTVTRA | 80 - All exits traced |
| | .1. | | TCTVTRX | 40 - Non term. exits traced |
| | .1. | | * | 20 - reserved |
| | ...1 | | * | 10 - reserved |
| | 1... | | * | 08 - reserved |
| |1.. | | * | 04 - reserved |
| |1. | | * | 02 - reserved |
| |1 | | * | 01 - reserved |
| (4D1) | CHARACTER | 3 | * | Word Alignment |
| Postponed autoinstall logon fields | | | | |
| (4D4) | ADDRESS | 4 | TCTVAPWE | Postponed Autoinstall work element anchor |
| (4D8) | FULLWORD | 4 | TCTVADQC | Postponed Autoinstall work current count |
| (4DC) | FULLWORD | 4 | TCTVADQT | Total number of postponed logons |
| (4E0) | HALFWORD | 2 | TCTVADQK | Peak concurrent postponed logons |
| (4E2) | HALFWORD | 2 | TCTVADQX | Incidence of postponed peak logons |
| Schedule Restart Delete fields | | | | |
| (4E4) | UNSIGNED | 4 | TCTVAECB | Schedule restart delete ECB |
| (4E8) | FULLWORD | 4 | TCTVASDC | Schedule restart delete count |
| Early ZC SUBPOOL TOKENS for Subpools added before TCRP | | | | |
| (4EC) | CHARACTER | 8 | TCTVTOKR | RAIA subpool token |
| (4F4) | CHARACTER | 8 | * | Reserved |
| (4FC) | CHARACTER | 4 | * | Reserved |
| RPL completion queue anchor. | | | | |
| (500) | FULLWORD | 4 | TCTVRPLQ | Q of RPLs for DSP from ZHPRX |
| (504) | FULLWORD | 4 | TCTVRPLC | Q of RPLs for DSP CDS counter |
| Persistent Sessions fields | | | | |
| (508) | BITSTRING | 1 | TCTVPRB1 | Flags for Per. Sess. use |
| | 1... .. | | TCTV_PRSS_AVAILABLE | |
| | .1.. .. | | TCTV_PRSS_SUBSET | VTAM support available for persistent sessions |
| | .1. | | TCTV_PRSS_PRED_TAKEOVER | VTAM 3.4.0 is in use |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|---------------------------------|--------------------------------|
| | ...1 | | TCTV_PRSS_ PRED_VICTIM | Predatory takeover |
| | 1... | | TCTV_PRSS_ VTAM_ABEND | Current takeover victim |
| (509) | UNSIGNED | 1 | TCTVPRB2 | VTAM abend occurred |
| | 1... | | TCTV_ZGRP_FAILED | Byte 2 of Per. Sess flags |
| | .1.. | | TCTV_RA_DONE | SI11 notify SIJ1 of fail |
| (50A) | UNSIGNED | 1 | TCTVPRB3 | RA initiation done |
| (50B) | UNSIGNED | 1 | TCTVPRB4 | Byte 3 of Per. Sess flags |
| | | | | Byte 4 of Per. Sess flags |
| Persistent sessions related fields | | | | |
| (50C) | FULLWORD | 4 | TCTV_PRSS_CHUNK | Per. Sess. NIBLIST size |
| (510) | FULLWORD | 4 | TCTV_PRSS_ INQUIRE_THRESHOLD | |
| (514) | FULLWORD | 4 | TCTV_PRSS_ UNBIND_THRESHOLD | NIBs for CO TCB |
| (518) | BITSTRING | 8 | TCTV_ZCNIBLST_TOKEN | NIBS FOR ZGUB CO |
| (520) | FULLWORD | 4 | TCTV_ZGRP_FIN_ECB | Subpool token - Per. Sess.@LFA |
| (524) | FULLWORD | 4 | TCTV_PSDI | ZGRP finished |
| (528) | ADDRESS | 4 | TCTV_PRSS_ RPL_POOL_PTR | PSDI value in seconds |
| (52C) | ADDRESS | 4 | TCTV_PRSS_ UNBIND_RPLS_PTR | RPL Pool for Per. Sess. |
| (530) | ADDRESS | 4 | TCTV_FIRST_NIBLIST_PTR | RPL pool within above |
| (534) | ADDRESS | 4 | TCTV_PRSS_ LNKTABLE_PTR | First NIBLIST in chain |
| | | | | Per. Sessions LINK table |
| Persistent sessions statistics fields | | | | |
| (538) | FULLWORD | 4 | TCTV_PRSS_NIB_COUNT | Per. Sessions NIB cnt |
| (53C) | FULLWORD | 4 | TCTV_PRSS_ INQUIRE_COUNT | Per. Session INQUIREs issued. |
| (540) | FULLWORD | 4 | TCTV_PRSS_ OPNDST_COUNT | Per. Sessions OPNDSTed |
| (544) | FULLWORD | 4 | TCTV_PRSS_ UNBIND_COUNT | Per. Sessions unbound |
| (548) | FULLWORD | 4 | TCTV_PRSS_ ERROR_COUNT | Per. Sessions clsd ext |
| (54C) | ADDRESS | 4 | TCTV_NIB_EXLST_PTR | TCTV3600 pointer |
| RA Stall dispatcher count | | | | |
| (550) | FULLWORD | 4 | TCTV_RA_STALL_COUNT | TCP dsps with stall |
| Entry Point addresses | | | | |
| (554) | ADDRESS | 4 | TCTV_ZGTI | DFHZGTI entry point |
| (558) | ADDRESS | 4 | TCTV_ZGTA | DFHZGTA entry point |
| (55C) | ADDRESS | 4 | TCTV_ZGCH | DFHZGCH entry point |
| (560) | ADDRESS | 4 | TCTV_ZGIN | DFHZGIN entry point |
| (564) | ADDRESS | 4 | TCTV_ZCN2 | DFHZCN2 entry point |
| (568) | ADDRESS | 4 | * | DFHZGxx entry point |
| (56C) | ADDRESS | 4 | * | DFHZGxx entry point |
| (570) | ADDRESS | 4 | * | DFHZGxx entry point |
| ZLGX work area | | | | |
| (574) | CHARACTER | 8 | TCTV_ZLGX_SLUNAME | SLU/member name |
| (57C) | ADDRESS | 4 | TCTV_ZLGX_TOKEN | Nibrch token |
| Saved UDSS03 for ZLGX/ZSCX | | | | |
| (580) | CHARACTER | 8 | TCTV_SAVE_GRNAME | Saved GR name |
| More session name bitmap addresses | | | | |
| (588) | ADDRESS | 4 | TCTV_RT_BITMAP | Remote Terminal names |
| (58C) | ADDRESS | 4 | TCTV_VIRTTERM_BITMAP | |
| (590) | ADDRESS | 4 | TCTV_BRIDGE_BITMAP | CICS Client term names |
| (594) | ADDRESS | 4 | TCTV_CONS_BITMAP | Bridge facility names |
| (598) | ADDRESS | 4 | TCTV_ZC_ ENQ_POOL_TOKEN | Console names |
| (59C) | CHARACTER | 2 | * | ZC ENQ Pool Token |
| (59E) | BITSTRING | 1 | TCTV_GRQL | Reserved |
| | | | | Fully qual. GR name lngth |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------|------------------------------|
| (59F) | CHARACTER | 17 | TCTV_GRQN | Fully qualified GR name |
| (5B0) | CHARACTER | 8 | TCTV_GENRNAME | Generic resource name |
| (5B8) | BITSTRING | 1 | TCTV_GRSTATUS | Generic resource status |
| (5B9) | CHARACTER | 3 | * | Reserved |
| (5BC) | ADDRESS | 4 | TCTV_ZGXA | DFHZGXA entry point |
| (5C0) | ADDRESS | 4 | TCTV_ZGPR | DFHZGPR entry point |
| Terminal Timeout (CESC) Static Storage Area | | | | |
| (5C4) | CHARACTER | 8 | TCTV_CESC_TIME | Time at which CESC runs |
| (5CC) | UNSIGNED | 1 | TCTV_CESC_FUNCTION | Func code passed to CESC |
| (5CD) | BITSTRING | 1 | TCTV_CESC_FLAGS | CESC flags |
| | | | 1... .. | TCTV_CESC_SCHEDULED |
| | | | | CESC is scheduled |
| | | | | Reserved |
| (5CE) | UNSIGNED | 2 | * | Reserved |
| Entry point addresses for ZC domain subroutines | | | | |
| (5D0) | ADDRESS | 4 | TCTV_ZGBM | DFHZGBM entry point |
| (5D4) | ADDRESS | 4 | TCTV_ZGRP | DFHZGRP entry point |
| (5D8) | ADDRESS | 4 | TCTV_ZGSL | DFHZGSL entry point |
| (5DC) | ADDRESS | 4 | TCTV_ZGUB | DFHZGUB entry point |
| (5E0) | ADDRESS | 4 | TCTV_ZGCC | DFHZGCC entry point |
| (5E4) | ADDRESS | 4 | TCTV_ZGPC | DFHZGPC entry point |
| (5E8) | ADDRESS | 4 | TCTV_ZGDA | DFHZGDA entry point |
| (5EC) | ADDRESS | 4 | TCTV_ZGCN | DFHZGCN entry point |
| (5F0) | ADDRESS | 4 | TCTV_ZGCA | DFHZGCA entry point |
| (5F4) | ADDRESS | 4 | TCTV_ZGAI | DFHZGAI entry point |
| VTAM Statistics. | | | | |
| (5F8) | FULLWORD | 4 | TCTLUNUM | Current no of LUs |
| (5FC) | FULLWORD | 4 | TCTLUHWM | HWM no of LUs |
| Prefix fields for Remote delete timeout mechanism. | | | | |
| (600) | FULLWORD | 4 | TCTV_IDLE_COUNT | Total reuse count |
| (604) | CHARACTER | 8 | TCTV_MAXIMUM_IDLETIME | Max skeleton idle time |
| (60C) | CHARACTER | 8 | TCTV_TOTAL_IDLETIME | Max total idle time |
| (614) | FULLWORD | 4 | TCTV_REMDINT | Shipped delete interval |
| (618) | FULLWORD | 4 | TCTV_REMDIDLE | Shipped delete idle time |
| (61C) | FULLWORD | 4 | TCTV_SKELETONS_BUILT | # of skeletons built |
| (620) | FULLWORD | 4 | TCTV_SKELETONS_CURRENT | # of skeletons installed@DCA |
| (624) | FULLWORD | 4 | TCTV_SKELETONS_DELETED | # deleted |
| (628) | FULLWORD | 4 | TCTV_FLAG_DELETES | # times CRMF called |
| (62C) | FULLWORD | 4 | TCTV_REMDELS_IN | Remote deletes in |
| (630) | FULLWORD | 4 | TCTV_REMDELS_OUT | Remote deletes out |
| (634) | FULLWORD | 4 | TCTV_REMDEL_DELETES | Remote deletes out |
| (638) | CHARACTER | | TCTPFXLN | Length of TCT PREFIX |

Constants

| Len | Type | Value | Name | Description |
|-------------------------------------|---------|-------|--------------------------|--|
| 1 | HEX | 70 | TCTVLMPE | LMPEO+BUFFLST+USERRH flags |
| 1 | HEX | 00 | TCTVSDNO | No shutdown in progress |
| 1 | HEX | 01 | TCTVSDOP | Operator terminal Quiesce |
| 1 | HEX | 02 | TCTVSDAI | ATI operator terminal quiesce |
| 1 | HEX | 03 | TCTVSDIS | Inter system quiesce |
| 1 | HEX | 04 | TCTVSDMT | Master terminal quiesce |
| 1 | HEX | 05 | TCTVSDFN | Final quiesce all terminals |
| 1 | HEX | 40 | TCTVECBC | ECB posted complete |
| 1 | HEX | 80 | TCTVCCBC | CCB posted complete |
| 1 | DECIMAL | 4 | TCTVRSAN | Number of save area stacks |
| 1 | HEX | 40 | TCTVCPST | TC restart complete post bit |
| 1 | DECIMAL | 11 | TCTV_RPL_NUMBER | Number of RPLs in Pers. Sessions pool CESC Function Codes... |
| 1 | DECIMAL | 1 | TCTV_CESC_TERM_TIMEOUT | Terminal |
| 1 | DECIMAL | 2 | TCTV_CESC_XRF_TIMEOUT | XRF |
| 1 | DECIMAL | 3 | TCTV_CESC_ENABLE_TIMEOUT | Enable |
| Generic resource status codes | | | | |
| 1 | HEX | 80 | TCTV_GR_REGD | |
| Registered as VTAM generic resource | | | | |
| 1 | HEX | 40 | TCTV_GR_REGERR | |
| Attempt to register failed | | | | |

| Len | Type | Value | Name | Description |
|-------------------------------------|------|-------|------------------|-------------|
| 1 | HEX | 20 | TCTV_GR_NOTAVAIL | |
| Function not supported | | | | |
| 1 | HEX | 08 | TCTV_GR_DEREGD | |
| Successfully deregistered from VTAM | | | | |
| 1 | HEX | 04 | TCTV_GR_DEREGERR | |
| Attempt to deregister failed | | | | |
| 1 | HEX | 02 | TCTV_GR_NOTAPPL | |
| Facility not required | | | | |
| 1 | HEX | 00 | TCTV_GR_NOTREG | |

TCTLE Terminal control table line entry

CONTROL BLOCK NAME = DFHTCTLS
 DESCRIPTIVE NAME = CICS Terminal Control Table Line Entry.
 FUNCTION = May be used by the Master Terminal module DFHEIQMT instead of DFHTCTLE.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 16 | DFHTCTLE | |
| (0) | CHARACTER | 4 | TCTLEECB | event control block |
| (4) | CHARACTER | 2 | TCTLETOP | type of operation |
| (6) | UNSIGNED | 2 | TCTLEIOL | input / output data length |
| (8) | ADDRESS | 4 | TCTLEDCB | data control block address |
| (8) | ADDRESS | 4 | TCTLEDTF | D T F address |
| (C) | ADDRESS | 4 | TCTLEIOA | input / output area address |
| (10) | CHARACTER | * | * | BSAM OVERLAY |
| (10) | ADDRESS | 4 | TCTLEIOB | input/ ouput block address |
| (14) | ADDRESS | 4 | TCTLESID | BSAM input DCB address |
| (18) | ADDRESS | 4 | TCTLESOD | BSAM output DCB address |
| (10) | CHARACTER | * | * | GAM OVERLAY |
| (10) | CHARACTER | 1 | TCTLEEGC | length error or read error code |
| (11) | CHARACTER | 1 | * | * |
| (12) | CHARACTER | 2 | TCTLEGRC | residual count if length error |
| (14) | UNSIGNED | 4 | TCTLELGC | input / output data length |
| (18) | CHARACTER | 4 | * | * |
| (1C) | UNSIGNED | 1 | TCTLEDGC | index to DEB table addr ptr |
| (1D) | CHARACTER | 1 | TCTLEGLR | lock option request |
| (1E) | CHARACTER | 2 | * | * |
| (10) | CHARACTER | * | * | TCAM OVERLAY |
| (10) | CHARACTER | 4 | * | * |
| (14) | ADDRESS | 4 | TCTLEOQ | output TCTLE address |
| (18) | CHARACTER | 1 | TCTLEFL | TCAM flags |
| | 1... .. | | TCTLEFL1 | POOL=YES specified |
| | .1.. .. | | TCTLESNA | TCAM SNA |
| | ..1. | | TCTLEFL3 | reserved |
| | ...1 | | TCTLEFL4 | reserved |
| | 1... | | TCTLEFL5 | deact queue |
| (19) | CHARACTER | 1 | * | * |
| (10) | CHARACTER | * | * | BTAM OVERLAY |
| (10) | CHARACTER | 1 | TCTLESM1 | remote status message byte one |
| (11) | CHARACTER | 1 | TCTLESM2 | remote status message byte two |
| (12) | UNSIGNED | 2 | TCTLETRC | residual count |
| (14) | CHARACTER | 1 | TCTLECC | command code |
| (15) | CHARACTER | 3 | TCTLETLA | terminal list address |
| (18) | CHARACTER | 1 | TCTLESF | status flags |
| (19) | CHARACTER | 1 | TCTLERLN | relative line number |
| (1A) | CHARACTER | 1 | TCTLERSP | response to addressing |
| (1B) | CHARACTER | 1 | TCTLELRC | response to VRC / LRC |
| (1C) | CHARACTER | 1 | TCTLETPO | TP - OP code |
| (1D) | CHARACTER | 1 | TCTLEES | error status |
| (1E) | CHARACTER | 2 | TCTLECSW | CSW status |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-------------|-----|------------|---------------------------------|
| (20) | ADDRESS | 4 | TCTLEALP | current addressing list pointer |
| (24) | CHARACTER | 3 | * | reserved |
| (27) | CHARACTER | 1 | TCTLELRL | local terminal index |
| (28) | CHARACTER | 2 | * | reserved |
| (2A) | UNSIGNED | 2 | TCTLEOL | output length |
| (2C) | CHARACTER | 4 | TCTLEOA | output area |
| (30) | BITSTRING | 1 | TCTLESI | line status indicator |
| | 1... .. | | TCTLESEP | error pending indicator |
| | .1. . . . | | TCTLESAK | dial line acknowledgement |
| | .1. . . . | | TCTLESPO | line perm out of service |
| | ...1 . . . | | TCTLESIR | interruptable read initiated |
| | 1... . | | TCTLESLC | switched line connected |
| |1. . | | TCTLESTR | terminal read initiated |
| |1. . | | TCTLESLI | line initiated |
| |1 . | | TCTLESOS | line out of service |
| (31) | BITSTRING | 1 | TCTLEMI | multiple indicator byte |
| | 1... .. | | TCTLELPI | last line in pool indicator |
| | .1. . . . | | TCTLEMWL | wrap list indicator |
| | .1. . . . | | TCTLETCM | access method is TCAM |
| | ...1 . . . | | TCTLEMFP | first pool line indicator |
| | 1... . | | TCTLEMET | error task initiated indicator |
| |1. . | | TCTLEATA | telecommunication access method |
| |1. . | | TCTLEAGA | local line |
| |1 . | | TCTLEASA | sequential access method |
| (32) | UNSIGNED | 2 | TCTLEAL | input data area length |
| (34) | ADDRESS | 4 | TCTLERA | input area address retention |
| (38) | CHARACTER | 4 | TCTLENP | number of polls issued |
| (3C) | UNSIGNED | 4 | TCTLEBC | bypass control counter |
| (40) | ADDRESS | 4 | TCTLEPLA | polling list address |
| (40) | BITSTRING | 1 | TCTLELF | line features |
| | 1... .. | | TCTLEFLO | read lock |
| | .1. . . . | | TCTLEFWL | wrap list feature |
| | .1. . . . | | TCTLEFSC | station control feature |
| | ...1 . . . | | TCTLEFCK | checking feature |
| | 1... . | | TCTLEFBR | buffer receive feature |
| |1. . | | TCTLEFAP | auto poll feature |
| |1. . | | TCTLEFAC | auto call feature |
| |1 . | | TCTLEFAA | auto answer feature |
| (44) | ADDRESS | 4 | TCTLETEA | active term table entry address |
| (48) | BITSTRING | 1 | * | |
| | 1... .. | | * | |
| | .1. . . . | | TCTLEPUI | purging data request indicator |
| | .1. . . . | | TCTLEDP2 | term already connected purge |
| | ...1 . . . | | TCTLEDP1 | term out of service purge |
| TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge | | | | |
| | ... 1111 | | * | |
| (49) | BITSTRING | 1 | TCTLECL | Line Class |
| | 1... .. | | TCTLELS | line scan indicator |
| | .1. . . . | | * | |
| | ...1 . . . | | TCTLECBS | bisynchronous |
| | 1111 | | * | |
| (4A) | CHARACTER | 2 | TCTLELE | number of transmission errors |
| (4C) | ADDRESS | 4 | TCTLEECA | line error chain address |
| (50) | UNSIGNED | 1 | TCTLELEC | line error count |
| (51) | CHARACTER | 3 | TCTLEPP | previous polling list pointer |
| (54) | ADDRESS | 4 | TCTLEPA | terminal pool address |
| (54) | ADDRESS | 4 | TCTLEEA | Line Entry ending address |
| (58) | ADDRESS | 4 | TCTLEETE | error terminal entry pointer |
| (5C) | CHARACTER | 8 | TCTLEBAA | bi-sync auxiliary area |
| (64) | CHARACTER | 2 | TCTLEBRA | bi-sync response I/O area |
| (66) | CHARACTER | 1 | TCTLEBTO | last bi-sync type of operation |
| (67) | BITSTRING | 1 | TCTLEBEI | bi-sync event indicators |
| (68) | BITSTRING | 1 | TCTLESBI | BSC line status |
| (69) | BITSTRING | 1 | TCTLEIBS | index byte savearea |
| (6A) | BITSTRING | 1 | TCTLERPS | rotational poll savearea |
| (6B) | BITSTRING | 1 | * | indicator byte |
| | 11... .. | | * | |
| | .1. . . . | | TCTLEMLU | line in use mask |
| | ...1 1111 | | * | reserved |
| (6C) | UNSIGNED | 2 | TCTLESWL | 3270 segment size |
| (6E) | CHARACTER | 2 | * | reserved |

TCTTE TCT terminal entry

CONTROL BLOCK NAME = DFHTCTTE
 DESCRIPTIVE NAME = CICS TCT Terminal Entry
 Many assembler bit names are not included in this structure.
 E.G. The TCTEIGBF in 'OI TCTEIGBF,TCTEGBF' will be found under
 TCTEGBF and not TCTEIGBF.
 Old L0 to LZ removed to allow reuse of change flags.
 Old @L0 to @LZ have been changed to @I0 and @Iz.
 Use cruise on older releases if you need the original flag
 EXTENSIONS FOR THE DFHTCTTE DSECT
 TCTTETTE TCTTE BMS Extension
 Pointed to by TCTTETEA
 TCTTEPSE TCTTE Special Features Extension
 Pointed to by TCTTEPSA
 TCTTELUC TCTTE Extension for LUC Systems
 Pointed to by TCTTELUCX
 TCTENIB TCTTE Extension for Nib Descriptor
 Pointed to by TCTENIBA
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE.
 The following fields form part of the Product-Sensitive
 Programming Interface
 TCTEAMIB TCTECIP TCTECG1 TCTECG2 TCTEDIP TCTEHACP
 TCTELOS TCTENIBA TCTENNAM TCTERPLA TCTESEST
 TCTEVR5 TCTEVR6 TCTEVR7 TCTEVR8 TCTE2RY
 TCTTEAID TCTTECA TCTTECIA TCTTECIL
 TCTTEDA TCTTEDLM TCTTEEIA TCTTEIST TCTTENI TCTTENO
 TCTTEPCR TCTTEPGB TCTTEPGM TCTTETEA
 TCTTETC TCTTETI TCTTETP TCTTETS TCTTETT

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|---|
| (0) | STRUCTURE | 277 | DFHTCTTE | Dummy Section |
| TERMINAL DATA CONTROL INFORMATION | | | | |
| This area (from TCTE_TRACE_1 to TCTE_TRACE_1_LEN) is traced | | | | |
| (0) | CHARACTER | 24 | TCTE_TRACE_1 | TCTTE trace area 1 |
| (0) | CHARACTER | 4 | TCTTETI | Terminal name |
| TERMINAL TYPE CODES | | | | |
| (4) | CHARACTER | 1 | TCTTETT | Terminal Type - see constants |
| (5) | CHARACTER | 1 | TCTTETM | Terminal model number |
| OPERATION CLASS CODES | | | | |
| (6) | BITSTRING | 1 | TCTTECL | Operation class |
| | 1... .. | | * | |
| | .1. | | TCTTECAU | AUDIO |
| | ..1. | | TCTTESTI | TERM INIT TASK |
| | ...1 | | TCTTECBS | BISYNCHRONOUS |
| | 1... | | TCTTECHC | HARD COPY |
| |1. | | TCTTECV | VIDEO |
| |1. | | TCTTECB | BATCH |
| |1 | | TCTTECCV | CONVERSATIONAL |
| TERMINAL STATUS CODES | | | | |
| (7) | CHARACTER | 1 | TCTTETS | Terminal status |
| | 1... .. | | TCTTEATP | Dummy TCTTE for APT |
| | .1. | | TCTTESRO | READ only |
| | ..1. | | TCTTESPO | Permanent OUT OF SERVICE |
| | ...1 | | TCTTESQC | Terminal QUIESCING |
| | 1... | | TCTTESNP | RECEIVE only |
| |1. | | TCTTESAT | AUTO TRANSACTION initiate |
| |1. | | TCTTESA | Terminal ATTENDED |
| |1 | | TCTTESOS | OUT OF SERVICE |
| OPERATION DATA | | | | |
| (8) | ADDRESS | 4 | TCTTESC | Address of first TIOA for any one task |
| (C) | ADDRESS | 4 | TCTTEDA | Address of TIOA |
| (10) | ADDRESS | 4 | TCTTECA | Address of TCA using this terminal, else 0 if no TCA is currently available |
| (14) | CHARACTER | 4 | TCTE_TRANNUM | Trannum of transaction running with this term facility |
| TCTE_TRACE_1_LEN End of TCTTE trace area 1 | | | | |
| (18) | ADDRESS | 4 | TCTTECIA | Address of USER AREA |
| (1C) | BITSTRING | 1 | TCTTECIL | Length of USER AREA |
| (1D) | BITSTRING | 1 | * | Storage allocation |
| | 1... .. | | TCTTEPCR | PASSBOOK present on read |
| | 1... .. | | TCTTERMC | WRITE resend message |
| | .1. | | TCTTEPCW | PASSBOOK present on WRITE |
| | .1. | | TCTTERMS | Re-send message scheduled |
| | ..1. | | TCTTERMI | Re-send message control |
| | ..1. | | TCTTERMT | Re-send message transparent |
| | ...1 | | TCTTERMQ | Re-send message queued |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| | 1... | | TCTTEEOD | End of DATASET |
| | 1... | | TCTEMOPU | Unattended mode |
| |1. | | TCTTEOFC | End of file |
| |1. | | TCTRO2 | WRITE break occurred |
| |1. | | TCTRO1 | READ attention occurred |
| (1E) | CHARACTER | 1 | TCTTEURC | User return code |
| (1F) | BITSTRING | 1 | TCTTEFX | TRANSPARENCY feature flag |
| | 1... .. | | TCTTEFXF | TRANSPARENCY present |
| | .1. | | TCTTE32T | 3270 TRANSPARENCY |
| | .1. | | TCTTETOT | TC obtained TRANSP TIOA |
| | .1. | | TCTTETW | TRANSP WRITE required |
| (20) | ADDRESS | 4 | TCTTERTV | Address |
| (20) | FULLWORD | 4 | TCTTEDES | TCAM destination name |
| (24) | CHARACTER | 1 | TCTTERC | (Packed decimal) |
| (24) | CHARACTER | 1 | TCTTETCM | TCAM OPTCD flag |
| OPERATOR DATA CONTROL INFORMATION | | | | |
| (25) | CHARACTER | 3 | TCTTEOI | Operator identification |
| (28) | CHARACTER | 3 | TCTTENLI | National Language in use |
| (2B) | UNSIGNED | 1 | TCTTEOP | Operator priority |
| VTAM FMH BUILD AREA | | | | |
| (2C) | CHARACTER | 2 | TCTEFMH1 | FMH area for 3600 DEVICES |
| (2C) | BITSTRING | 1 | TCTEVTC | Type code name definition |
| | 1111 | | TCTEVCTCT | Logical device code |
| | 1.. | | * | |
| |1. | | TCTEOFP | OUTPUT format PARM present |
| |1. | | TCTEIFP | INPUT format PARM present |
| |1. | | TCTEFPP | FORMS parameter present type code STRG ALLOC |
| (2D) | BITSTRING | 1 | * | |
| (2D) | BITSTRING | 1 | TCTEVLDC | Logical device code |
| DATA STREAM TYPE | | | | |
| (2E) | BITSTRING | 1 | TCTETDST | DATA STREAM type byte |
| | 1... .. | | TCTESCSB | SCS basic DATASTREAM indicator (GRAPHICS + NL) |
| | .1. | | * | |
| | .1. | | * | |
| | .1. | | * | |
| | 1.. | | TCTEAI DP | AID present in TCTTE |
| |1. | | TCTEASC7 | ASCII-7 indicator |
| |1. | | TCTEASC8 | ASCII-8 indicator |
| |1. | | TCTETTSI | 3270 DATA STREAM indicator |
| SESSION CHARACTERISTICS CONTINUED | | | | |
| (2F) | CHARACTER | 1 | TCTEILUC | LUC SESSION indicator |
| (2F) | BITSTRING | 1 | TCTESEST | TCTTE SESSION status |
| | 1... .. | | TCTESLGI | 1=CICS SIMLOGON OK (INTLOG) 0=CICS SIMLOG not allowed (NO INTLOG) |
| | .1. | | TCTESLGT | Remember INTLOG value |
| | .1. | | TCTEACT | This is an APPC terminal |
| | .1. | | TCTESOPR | Operative |
| | 1.. | | TCTELUC | This is an LUC expression |
| |1. | | TCTEFPX | FAST PATH XFORMER in use |
| |1. | | TCTEFCTK | FC Token allowed |
| |1. | | TCTE_CLONE | APPC clone |
| TERMINAL DEPENDENT OVERLAY AREA | | | | |
| The following field is overlaid by: | | | | |
| TCTE3270 : 3270 Definitions | | | | |
| TCTE2980 : 2980 Definitions | | | | |
| TCTETLX : TLX Disconnect Messages | | | | |
| TCTE3600 : 3600 Binary Synchronous Definitions | | | | |
| TCTEOS : OS Console Support | | | | |
| (30) | CHARACTER | 12 | TCTTETDO | |
| 3270 DEFINITIONS Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 12 | TCTE3270 | 3270 definitions |
| (30) | HALFWORD | 2 | TCTTECAD | CURSOR address of BINARY |
| (32) | BITSTRING | 1 | TCTTEAID | ATTENTION identifier |
| (33) | BITSTRING | 1 | TCTTEFIB | Terminal feature flag byte |
| | 1... .. | | TCTTEFSP | SELECTOR PEN |
| | .1. | | TCTTELPR | LOCAL PRINT function |
| | .1. | | TCTTEFDK | DUAL case keyboard |
| | .1. | | TCTTEFTU | UPPER case TRANSLATE |
| | 1.. | | TCTTEFCV | COPY valid |
| |1. | | TCTTEFAA | AUDIBLE ALARM |
| |1. | | TCTTEFP7 | Print eligible printer |
| |1. | | TCTTEFPA | Model 3 printer adapter |
| (34) | CHARACTER | 8 | TCTTELUN | LUNAME in CLSDST PASS |
| (34) | UNSIGNED | 1 | TCTEDMYE | dummy overlay - error cde |
| (35) | CHARACTER | 5 | TCTEDMMN | dummy overlay - mod name |
| (3A) | UNSIGNED | 1 | TCTEDMGC | dummy overlay - getmn rc |
| (3B) | CHARACTER | 1 | * | dummy overlay - reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|--|
| 2980 DEFINITIONS | | | | |
| Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 5 | TCTE2980 | 2980 definitions |
| (30) | BITSTRING | 1 | TCTTEBAA | 2980 alternate address |
| (31) | BITSTRING | 1 | TCTTENSAA | 2980 normal address |
| (32) | BITSTRING | 1 | TCTTESID | 2980 station ID |
| (33) | BITSTRING | 1 | TCTTETAB | 2980 TAB factor |
| (34) | BITSTRING | 1 | TCTTETID | 2980 Model 4 TELLER ID |
| TLX DISCONNECT MESSAGES | | | | |
| Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 4 | TCTETLX | TLX definitions |
| (30) | ADDRESS | 4 | TCTTETLM | TLX disconnect MSG addr |
| 3600 | | | | |
| BINARY SYNCHRONOUS DEFINITIONS | | | | |
| Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 12 | TCTE3600 | 3600 definitions |
| (30) | CHARACTER | 8 | TCTTERIN | Resend message user data |
| (38) | BITSTRING | 1 | TCTTEDLM | End of input delimiter |
| | 1... .. | | TCTTECEX | Input ended with ETX |
| | .1. | | TCTTECEB | Input ended with ETB |
| | ..1. | | TCTTECIS | Input ended with IRS |
| | ...1 | | TCTTECSO | Ignored |
| | 1... | | TCTTECTR | Transparent input |
| (39) | CHARACTER | 3 | * | |
| OS CONSOLE SUPPORT | | | | |
| Terminal Dependent Overlay | | | | |
| (30) | CHARACTER | 12 | TCTEOS | OS definitions |
| (30) | ADDRESS | 4 | TCTTECCE | Console control element |
| | 1... .. | | TCTTEPL | Error console |
| (30) | BITSTRING | 3 | * | Reserved |
| (34) | FULLWORD | 4 | TCTTEMID | message identification |
| (38) | FULLWORD | 4 | TCTTECNI | Console identification |
| VTAM DEFINITIONS | | | | |
| (3C) | CHARACTER | | TCTTEVDA | Area |
| (3C) | CHARACTER | 4 | TCTESIDI | Data |
| (40) | CHARACTER | 4 | TCTESIDO | Data |
| (44) | CHARACTER | 3 | TCTTECRE | Extension |
| NOTE: X'80' is restricted because of arithmetic manipulations in COBOL | | | | |
| (44) | BITSTRING | 1 | TCTEUSE1 | Byte storage allocation |
| | 1... .. | | * | restricted due to COBOL arith |
| | .1. | | TCTEFMH | FMH received test mask |
| | ..1. | | TCTEEOC | EOC,OC received test mask |
| | ...1 | | TCTEASE | SESSION Error notified |
| | 1... | | TCTESIG | SIGNAL received test mask |
| |1. | | TCTEUFRT | Free the TCTTE(EB received) |
| |1. | | TCTEUCOM | User should SYNC POINT now |
| |1 | | TCTERCDI | REQCD condition |
| (45) | BITSTRING | 1 | * | |
| (46) | BITSTRING | 1 | TCTETXTF | 3270 TEXT feature flag byte |
| | 1... .. | | TCTE327E | 3270 Extended range |
| | .1. | | TCTEAPTX | APL TEXT feature |
| | ..1. | | TCTETXKB | TEXT keyboard |
| | ...1 | | TCTEAPKB | APL keyboard |
| | 1... | | TCTETXPR | 3288 TEXTPRINT |
| |1. | | TCTETXT6 | KATAKANA |
| |1. | | TCTETXT7 | Reserved |
| |1 | | TCTETXT8 | Reserved |
| 3270 SIZE DEFINITIONS | | | | |
| (47) | BITSTRING | 1 | TCTE32SF | 3270 size flags |
| | 1... .. | | TCTEWA | Alternate size can be used |
| | .1. | | TCTEALW | Alternate size is in use |
| | ..1. | | TCTELEWA | Alternate size used last |
| | ...1 | | TCTEAWN | EW/EWA needed next |
| | 1... | | * | 3270 - Reserved |
| |1. | | TCTTE_ROUTABLE_ | |
| | | | START | |
| | | | | Routable START |
| The following 2 BIT definitions are for TRANSACTION ROUTING use | | | | |
| |1. | | TCTECRTF | Caller is running the first transaction of a ROUTING SESSION |
| |1 | | TCTECERT | Caller is running an EXPLICIT ROUTING SESSION |
| (48) | HALFWORD | 2 | TCTEDSCZ | 3270 default screen size |
| (4A) | UNSIGNED | 1 | TCTEDSCL | 3270 default size rows |
| (4B) | UNSIGNED | 1 | TCTEDSCC | 3270 default size columns |
| (4C) | HALFWORD | 2 | TCTEASCZ | 3270 alternate screen size |
| (4E) | UNSIGNED | 1 | TCTEASCL | 3270 alternate size rows |
| (4F) | UNSIGNED | 1 | TCTEASCC | 3270 alternate size columns |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|------------|-----|------------|--|
| 3270 EXTENDED FEATURES | | | | |
| (50) | BITSTRING | 1 | TCTE32EF | 3270 extended features |
| | 1... .. | | TCTTEEDS | EXT DATA STREAM supported |
| | .1.. | | TCTTECOL | COLOUR supported |
| | ..1. | | TCTTEPSS | PSS supported |
| | ...1 | | TCTTEHIL | HILIGHT supported |
| | 1.. | | TCTTEVAL | VALIDATION supported |
| |1.. | | TCTTEPRN | PARTITIONS supported |
| |1. | | TCTTEMSR | MSR CONTROL supported |
| (51) | BITSTRING | 1 | TCTE32E2 | 3270 extended features #2 |
| | 1... .. | | TCTTEFRL | Field OUTLINING supported |
| | .1.. | | TCTTEMIX | MIXED field supported |
| | ..1. | | TCTTEBTR | Background transparency |
| | ...1 11.. | | * | Reserved |
| |1. | | TCTTERMP | Reply mode structured field in query reply |
| |1 | | TCTTESA | Set Attribute supported. |
| (52) | BITSTRING | 1 | TCTE32E3 | 3270 extended features |
| | 1... .. | | TCTTEQYA | QUERY always |
| | .1.. | | TCTTEQYC | QUERY COLD-STARTS only |
| | ..1. | | TCTTEQYN | QUERY next LOGON |
| | ...1 | | TCTTEQYP | QUERY pending |
| | 1111 | | * | |
| Extended User INFORMATION field | | | | |
| (53) | BITSTRING | 1 | TCTEUSE2 | Byte storage allocation |
| | 1... .. | | TCTEABP | ABEND is pending |
| | .1.. | | TCTEUERR | 0889 SENSE REC'D mask |
| | ..1. | | TCTEUCFM | User should CONFIRM now |
| | ...1 | | TCTEUSRB | User should ROLL BACK now |
| | 1.. | | TCTESRBR | ROLLBACK rec'd from other side |
| |1.. | | TCTEUNUL | No User data ID received |
| |1. | | TCTEUSMD | User flag in SEND mode |
| |1 | | TCTEURCV | User flag in RECEIVE mode must issue a RECEIVE |
| (54) | CHARACTER | 4 | TCTTEUSE | End of User area |
| SYSTEM AREA STARTS HERE | | | | |
| GENERAL INFORMATION | | | | |
| (54) | HALFWORD | 2 | TCTTETEL | Table entry length |
| (56) | HALFWORD | 2 | TCTTETEN | Terminal entry number |
| (58) | ADDRESS | 4 | TCTEDIBA | Data interchange block address |
| (5C) | ADDRESS | 4 | TCTESNEX | Addr of Signon Extension |
| (60) | CHARACTER | 11 | TCTESCUR | Security level |
| (60) | CHARACTER | 4 | * | |
| (60) | UNSIGNED | 2 | TCTECSG1 | CGCSGID-1 |
| (62) | UNSIGNED | 2 | TCTECSG2 | CGCSGID-2 |
| (64) | BITSTRING | 1 | TCTESCFL | Security flag byte |
| | 1... .. | | TCTEGNXT | GNTRAN next transid |
| | .1.. | | * | Reserved |
| | ..1. | | TCTETOFB | Timeout BID failed |
| | ...1 | | TCTESCFM | Preset signon error field |
| | 1.. | | TCTESCST | Timeout SIGN-OFF is allowed |
| |1.. | | TCTESCLG | SIGNOFF = LOGOFF |
| |1. | | TCTESTAR | Trans Access Revoked |
| |1 | | TCTESCTO | Timeout signoff required |
| (65) | CHARACTER | 4 | TCTEELGM | A(EXTRACTED LOGON DATA) |
| (69) | BITSTRING | 1 | * | |
| | 1... .. | | TCTEMROS | Shippable definition |
| | .1.. | | TCTEMROP | Ship done to someone |
| | ..1. | | TCTTETMC | TMP action taken for TCTE |
| | ...1 | | TCTESKSH | Save on restart dataset that definition shipped |
| | 1.. | | TCTENTA | Notify received. |
| |1.. | | TCTEIRFR | TEDA->TIOA is free for reuse |
| |1. | | TCTERMDL | Remdel scheduled |
| |1 | | TCTTETSC | TMP action taken for TCSE |
| (6A) | BITSTRING | 1 | TCTEANDX | SNA-ASCII direction indicator |
| | 1111 1.. | | * | Reserved |
| |1.. | | TCTES7TX | S/7 no RETRANSLATE indicator |
| |1. | | TCTEASCO | Output (EBCDIC to ASCII) |
| |1 | | TCTEASCI | Input (ASCII to EBCDIC) |
| (6B) | BITSTRING | 1 | TCTEUCTB | Index for translate table |
| (6C) | ADDRESS | 4 | TCTENIBA | Address of NIB descriptor |
| (6C) | ADDRESS | 4 | TCTTERLA | Address of RELAY LINK TCTTE, if this TCTTE is a SURROGATE. |
| (6C) | ADDRESS | 4 | TCTTETA | The physical address and terminal device for the write MACRO instruction |
| (6C) | BITSTRING | 1 | TCTTEGU | Relative line number |
| (70) | ADDRESS | 4 | TCTTESKA | Address of SKELETON TCTTE, if this TCTTE is a SURROGATE. |
| (70) | ADDRESS | 4 | TCTERPLA | RPL address |
| (70) | ADDRESS | 4 | TCTTELEA | LINE ENTRY address |
| (74) | ADDRESS | 4 | TCTTERST | Addr of tran restart Extn |
| (78) | ADDRESS | 4 | TCTTETEA | Address of BMS extension |
| (7C) | CHARACTER | 4 | TCTTETC | Terminal transaction code |
| (80) | ADDRESS | 4 | TCTEEILR | A(EIP'S last held TIOA) |
| (84) | ADDRESS | 4 | TCTEEIEX | A(EXEC terminal CB ETGB) |
| (84) | ADDRESS | 4 | TCTTESUA | Address of SURROGATE TCTTE if this TCTTE's a RELAY LINK |
| (88) | ADDRESS | 4 | TCTTEEIA | Exec interface PARM addr |
| (8C) | ADDRESS | 4 | TCTTEUCN | ISC User ownership chain |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------------|--|
| (90) | ADDRESS | 4 | TCTTEIST | ISC INTERSYSTEM table address |
| (94) | BITSTRING | 1 | TCTTEEDF | EDF debug mode |
| (95) | CHARACTER | 1 | TCTEMRST | MRO/LU6.1 Apl State-cur |
| (96) | CHARACTER | 1 | TCTEMRSV | MRO/LU6.1 Apl State-prev |
| (97) | CHARACTER | 1 | * | |
| | 1111 | | TCTEMRSX | MRO/LU6.1 Indicators |
| | 1... | | TCTENNQI | IMS Session Indicator |
| | .111 | | * | Reserved |
| | 1111 | | TCTTEDII2 | DYNAMIC INSTALL flags |
| | 111. | | * | Reserved |
| |1 | | TCTEDAB | Autoinstall delete abend |
| (98) | BITSTRING | 1 | TCTTEDII | DYNAMIC INSTALL indicators. * |
| | 1... | | TCTTEDAP | Pending DYNAMIC ADD |
| | .1. | | TCTTEDDP | Requires deleting |
| | .1. | | TCTPNDOS | Pending INSERVICE |
| | ...1 | | TCTPNDNP | Pending TTI i.e. RECEIVEONLY * |
| | 1... | | TCTPNADT | Pending ATI |
| |1. | | TCTPNDLG | Pending CREATESESS. |
| |1. | | TCTPNDAC | Pending AUTOCONNECT |
| |1 | | TCTETRAN | Transient terminal |
| (99) | BITSTRING | 1 | * | DYNAMIC INSTALL indicatorS-2 * |
| | 1... | | TCTEDELQ | AUTOINSTALL ZACT has issued INITIATE |
| | .1. | | TCTEDELQ | AUTOINSTALL delete after a restart |
| | .1. | | TCTELUSM | Special LUS 1st session |
| | ...1 | | TCTENDEL | AUTOINSTALL do not delete |
| | 1... | | TCTEXDEL | on if ZCLX or ZNSP run and action=simlogon |
| |1. | | TCTECLG | CLSDST & LOGON in progress |
| |1 | | TCTEPSN | Awaiting CLSDST PASS notification |
| |1 | | TCTEDZIP | CATD delete in progress |
| (9A) | CHARACTER | 4 | TCTEXTOK | ZXQO token |
| (9E) | HALFWORD | 2 | TCTEEIDL | Length of residual data |
| (A0) | HALFWORD | 2 | TCTTECCU | Physical hardware address |
| (A2) | CHARACTER | 1 | TCTESONS | SON code for SCIP |
| Terminal read timeout VALUE | | | | |
| (A3) | BITSTRING | 1 | TCTETRTO | Read timeout value |
| (A4) | BITSTRING | 1 | TCTTESCV | Storage violation count |
| This byte is used by surrogates to record the state of the relay link | | | | |
| (A5) | CHARACTER | 1 | TCTE_RELAY_LINK_STATUS | |
| | 1... | | * | reserved bit 0 |
| | .1. | | * | reserved bit 1 |
| | .1. | | * | reserved bit 2 |
| | ...1 | | * | reserved bit 3 |
| | 1... | | * | reserved bit 4 |
| |1. | | TCTE_RECOV_STATUS_DEFERRED | No recovery status yet |
| |1 | | TCTE_RELAY_LINK_ACTIVE | Relay link is active |
| |1 | | TCTE_RELAY_LINK_ASSIGNED | Relay link is assigned |
| (A6) | HALFWORD | 2 | TCTTEREC | Last record NBR written |
| The following field is overlaid by: TCTTEZ1 : NON-VTAM status fields TCTTEZ2 : PIPELINE statistics TCTTEZ3 : Session Specific fields for Function Shipping | | | | |
| (A8) | CHARACTER | 8 | TCTTEZ0 | |
| NON - VTAM Status fields | | | | |
| (A8) | CHARACTER | 8 | TCTTEZ1 | NON-VTAM status fields |
| (A8) | FULLWORD | 4 | TCTTEBC | Bypass control counter |
| (AC) | HALFWORD | 2 | TCTTELPL | (Terminal type is CARD READER or LINE PRINTER) |
| (AE) | BITSTRING | 1 | TCTTEPRC | Event (terminal type if SYSTEM/7 support |
| (AF) | UNSIGNED | 1 | * | NON-VTAM Reserved |
| PIPELINE Statistics | | | | |
| (A8) | CHARACTER | 8 | TCTTEZ2 | PIPELINE statistics |
| (A8) | HALFWORD | 2 | TCTETCNT | Total throw-away count |
| (AA) | HALFWORD | 2 | TCTESCNT | Number of times (consecutive throw-away count) |
| (AC) | HALFWORD | 2 | TCTECCNT | Current throw-away count |
| (AE) | HALFWORD | 2 | TCTEMCNT | Maximum throw-away count |
| Session Specific fields used for Function Shipping | | | | |
| (A8) | CHARACTER | 4 | TCTTEZ3 | Session only fields |
| (A8) | CHARACTER | 4 | TCTESERV | Current mirror transid |
| TERMINAL STATISTICS | | | | |
| (B0) | FULLWORD | 4 | TCTTENI | From this terminal (BINARY) |
| (B4) | FULLWORD | 4 | TCTTEN0 | To this terminal (BINARY) |
| (B8) | CHARACTER | 2 | TCTEDVSC | VTAM short on storage (SOS) |

| Offset Hex (B8) | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|------|--------------------|---|
| | CHARACTER | 2 | TCTTETE | Number of transmission errors or IRC disconnect requests (BINARY) |
| OPERATOR STATISTICS | | | | |
| (BA) | CHARACTER | 4 | TCTTEOT | Number of transactions |
| (BE) | CHARACTER | 2 | TCTTEOE | Number of transaction errors |
| General Bits | | | | |
| (C0) | BITSTRING | 1 | * | * |
| | 1111 | 1... | | |
|  | .... | .1.. | TCTE_CONFDATA_ YES | Suppress user data |
|  | .... | .1. | TCTEDIBS | DIB is inactive |
|  | .... | ...1 | TCTTEGWI | A GET WAIT has been issued * |
| TERMINAL CONTROL INDICATORS | | | | |
| (C1) | BITSTRING | 1 | TCTTETC1 | Byte name definition |
| | 1... | .... | TCTTECLT | Last terminal in group |
| | .1.. | .... | TCTTECPF | Compatible terminal |
| | .1. | .... | TCTTECUI | Control unit OUT OF SERVICE |
| | ...1 | .... | TCTTEPOS | Control unit PERMANENTLY OUT OF SERVICE |
|  | .... | 1... | TCTTESUS | Task is suspended by ZC |
|  | .... | .1.. | TCTTECTC | Terminal connected |
|  | .... | .1. | TCTTECRS | Skip terminal read |
|  | .... | ...1 | TCTTECSF | Skip flag status indicator |
| (C2) | BITSTRING | 1 | TCTTEIO | Internal operation req byte |
| OPERATION STATUS | | | | |
| | 1... | .... | TCTTEONR | NEGATIVE response |
| | .1.. | .... | TCTTEOAO | AUTO output message |
| | .1. | .... | TCTTEOAT | AUTO output transaction |
| | ...1 | .... | TCTTECG | Conditional GETMAIN for read attention |
|  | .... | 1... | TCTTEOGA | GRAPHIC attention indicator |
|  | .... | 1... | TCTTERPI | READ pending |
|  | .... | .1.. | TCTTEOIC | TIME control transaction |
|  | .... | .1. | TCTTEOTI | TASK to be initiated |
|  | .... | ...1 | TCTTEXAC | Transparent transaction |
|  | .... | ...1 | TCTTESCW | SEGMENTED write |
| (C3) | BITSTRING | 1 | TCTTEI02 | Byte 2 name definition |
| | 1... | .... | TCTTECAI | Permanent transaction code |
| | .1.. | .... | * | * |
| | .1. | .... | * | * |
| | ...1 | .... | * | reserved |
|  | .... | 1... | TCTERORT | Initiate restart task |
|  | .... | .1.. | TCTERORN | Notify terminal |
|  | .... | .1. | TCTEROCs | Restart for CICS LOGON |
|  | .... | ...1 | TCTEROS | Restart to SIMLOGON |
| ACCESS METHOD FLAGS | | | | |
| (C4) | BITSTRING | 1 | TCTEAMIB | Access method flags |
| OPERATION REQUESTS | | | | |
| (C5) | BITSTRING | 1 | TCTTEOS | External operation request |
| | 1... | .... | TCTTEOER | Erase |
| | .1.. | .... | TCTTEOSS | Save terminal storage |
| | .1. | .... | TCTTEOLA | Line addressing request |
| | ...1 | .... | TCTTEORR | Read |
|  | .... | 1... | TCTTEODR | Disconnect |
|  | .... | .1.. | TCTTEOSR | Wait |
|  | .... | .1. | TCTTECVS | Converse |
|  | .... | ...1 | TCTTEOWR | Write |
| OPERATION MODIFIERS | | | | |
| (C6) | BITSTRING | 1 | TCTTECS | External control request |
| | 1... | .... | TCTTERBI | Read buffer |
| | .1.. | .... | TCTTEEUI | Erase all unprotected |
| | .1. | .... | TCTTEOWL | Write lock |
| | ...1 | .... | TCTTEORL | Read lock |
|  | .... | 1... | TCTTECYI | Copy |
|  | .... | .1.. | TCTTERPR | |
|  | .... | .1. | TCTTETRM | Transparent mode |
|  | .... | .1. | TCTTENTR | No translate |
|  | .... | ...1 | TCTTEPBM | PSEUDO-BINARY mode |
|  | .... | ...1 | TCTTETRY | BISYNCH transparency |
| (C7) | BITSTRING | 1 | TCTTEOC | Byte 2 storage allocation |
| | 1... | .... | TCTEDRR | Write with DEF RESP requested * |
| | .1.. | .... | TCTTETWW | TCAM write WORK flag |
| | .1. | .... | TCTRA2 | Write BREAK analysis request |
| | ...1 | .... | TCTRA1 | Read ATTN analysis request |
|  | .... | 1... | TCTTECBW | COMMON BUFFER request |
|  | .... | .1.. | TCTTEPBK | PASSBOOK request |
|  | .... | .1. | TCTTEOFR | END OF FILE request |
|  | .... | ...1 | TCTTEWCI | Control char supplied |
| (C8) | BITSTRING | 1 | TCTEOCB | Byte 3 storage allocation |
| | 1... | .... | TCTEFRC | Write with FORCE=YES |
| | .1.. | .... | TCTEWSR | Wait until SIGNAL received |
| | .1. | .... | TCTELMP | LDC mnemonic present |
| | ...1 | .... | TCTEFPD | FMH provided with data |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| | 1... | | TCTELST | LAST write from task |
| |1.. | | TCTEORAS | IMMED option |
| |1. | | TCTEORSY | DELAY option |
| (C9) | BITSTRING | 1 | TCTEIKPC | Byte 4 storage allocation |
| | 1... .. | | * | Reserved |
| | .1. | | * | Reserved |
| | ..1. | | TCTESFU | SPP ISSUE TC free at USR SP |
| | ...1 | | TCTESFR | SPP ISSUE TC free if RSTRT |
| | 1... | | * | |
| |1.. | | TCTEPH1 | SYNCPOINT PHASE 1 done |
| |1. | | TCTEPH2 | SYNCPOINT PHASE 2 done |
| (CA) | BITSTRING | 1 | TCTEOC3 | Byte 5 storage allocation |
| | 1... .. | | TCTENEC | Write with CCOMPL=NO |
| | .1. | | * | |
| | ..1. | | TCTEHDA | User handles all conditions |
| | ...1 | | TCTTECND | COND request |
| | 1... | | TCTTECND | COND request |
| |1.. | | TCTTEOWS | Write structured field |
| |1. | | TCTTETTO | TRANSP TIOA obtained |
| | 1... | | TCTEDWP | Defer requested |
| |1.. | | TCTTEDWR | Defer requested |
| |1. | | TCTTEINV | Invite requested |
| |1 | | TCTEDRD | Defer load |
| (CB) | BITSTRING | 1 | TCTEOC4 | Byte 6 storage allocation |
| | 1... .. | | * | |
| | .1. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | TCTEBYPQ | Byq quiesce for PASS |
| |1. | | TCTENOA | NOABEND requested |
| |1 | | TCTEINN | TERMERR flag byte |
| (CC) | BITSTRING | 1 | TCTETSU | TCTTE terminal sharing use |
| | 1... .. | | TCTESUR | Used as a SURROGATE |
| | .1. | | TCTERLX | Used as a RELAY LINK on transaction side |
| | ..1. | | TCTERLT | Used as a RELAY LINK on terminal side |
| | ...1 | | TCTERT | Used as terminal for remote transaction |
| | 1... | | TCTEMDL | Is a model TCTTE |
| |1.. | | TCTERTNT | TCTTE nominated transaction to be routed |
| |1. | | TCTERTE | Running routing transaction (CRTE) |
| |1 | | TCTEERT | Running under an explicit |
| (CD) | BITSTRING | 1 | TCTEERAF | 3270 Error MSG flags ROUTING SESSION |
| | 1... .. | | TCTEERAL | Error MSGS on last line |
| | .1. | | TCTEERAI | Intensify 3270 error MSGS |
| | ..1. | | TCTEPROP | Propagate abend towards TOR |
| (CE) | BITSTRING | 1 | TCTEERAH | 3270 Error MSG HIGHLIGHT ATTR |
| (CF) | BITSTRING | 1 | TCTEERAC | 3270 Error MSG COLOR ATTR |
| (D0) | CHARACTER | 4 | TCTESYID | SYSID of transaction owning system |
| (D4) | BITSTRING | 1 | TCTETSU2 | Terminal sharing usage |
| | 1... .. | | TCTESPRR | SYNC POINT must be sent to terminal owning system |
| | .1. | | TCTERTEC | ROUTING SESSION cancelled if this is a surrogate: |
| | ..1. | | TCTTEMBI | model owns BIND-IMAGE |
| | ...1 | | TCTTEMND | model owns NIB-DESCRIPTOR |
| | 1... | | * | RESERVED |
| |1.. | | * | RESERVED |
| |1. | | * | RESERVED |
| (D5) | BITSTRING | 1 | TCTETSU3 | General bits |
| | 1... .. | | TCTTEUIP | Limited update-in-place |
| | .1. | | TCTECDSY | SAVED TCTECDSV if on |
| | ..1. | | TCTEUCTR | Translate TRANID to U/C |
| | ...1 | | TCTTE_STORAGE_FREEZE | Indicates when all terminal storage should be retained@NBC |
| | 1... | | TCTTESRE | scheduled RESETSR |
| |1.. | | TCTELXS | Logon crossed simlog |
| |1. | | TCTEOPSE | TCTTEOI value set by SET TERM OPERID |
| |1 | | TCTEDTR | Dyn Router requires abend notification |
| (D6) | UNSIGNED | 2 | TCTTERTK | RTT entry key |
| (D8) | UNSIGNED | 1 | TCTTEEN | POLL list entry number |
| (D9) | CHARACTER | 1 | TCTTETP | Terminal priority |
| (DA) | BITSTRING | 1 | * | Trace bits |
| | 1... .. | | TCTETRX | Exit trace active |
| | .1. | | TCTETR5 | Standard or special trace OFF = STAN, ON = SPECIAL |
| | ..11 1111 | | * | Trace - Reserved |
| (DB) | UNSIGNED | 1 | TCTENLS | National Lang. Supp. code |
| (DC) | ADDRESS | 4 | TCTECLP | Address of CEL parmlist passed from CICS to CEL at Run Unit Init |
| (E0) | CHARACTER | 8 | TCTTE_START_DATA_ID | Start data id |
| (E0) | ADDRESS | 4 | TCTTE_START_DATA_ADDRESS | Start data id |
| (E4) | BITSTRING | 1 | TCTTE_START_DATA_FLAGS | Data on session |
| | 1... .. | | TCTTE_START_DATA_HEADER | Start flags |
| | | | | Header in data |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|---------------------------------|
| | .1.. | | TCTTE_START_ DATA | Just data |
| | ..11 1111 | | * | Reserved |
| (E5) | CHARACTER | 3 | * | Reserved |
| (E8) | HALFWORD | 2 | TCTTE_START_ DATA_LEN | Start data length |
| (EA) | CHARACTER | 6 | TCTE_RES_SA | Reserved |
| The following field is overlaid by: TCTTEX1 : Bisynchronous Data TCTETCM1 : TCAM Area | | | | |
| (F0) | CHARACTER | 12 | TCTTEX0 | SNA System Area |
| BISYNCHRONOUS DATA | | | | |
| (F0) | CHARACTER | 12 | TCTTEX1 | BISYNCH data |
| (F0) | CHARACTER | 4 | TCTTEBSB | BISYNCH data begin addr |
| (F0) | HALFWORD | 2 | TCTTEBDL | BISYNCH data area length |
| (F2) | BITSTRING | 1 | TCTTEBES | BISYNCH Event flags |
| | 1... | | TCTTEBAB | Terminal ANSWER BACK indicator. |
| | .1.. | | TCTTEBAI | Read or write abort |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | TCTTEBUB | User deblocking |
| |1.. | | TCTTEBBI | Blocked input |
| |1 | | * | |
| |1 | | TCTTEBIB | Incomplete batch |
| (F3) | BITSTRING | 1 | * | Reserved |
| (F4) | ADDRESS | 4 | TCTTEPDA | Area |
| (F8) | ADDRESS | 4 | TCTTEBIA | Blocked input record addr |
| (FC) | CHARACTER | | TCTTEBEA | Address |
| TCAM AREA (OS) | | | | |
| (F0) | CHARACTER | 12 | TCTETCM1 | TCAM area |
| (F0) | HALFWORD | 2 | TCTTETML | Minimum length TIOA TCAM |
| (F2) | BITSTRING | 1 | * | TCAM SNA flags |
| | 1... | | TCTETME | EB still to do for task |
| | .1.. | | TCTETMD | DUMMY write to perform |
| (F3) | BITSTRING | 1 | TCTETCM2 | Reserved TCAM |
| (F4) | CHARACTER | 8 | TCTTETQN | TCAM QUEUE name |
| (FC) | CHARACTER | | TCTEGET6 | Length for OS CONSOLE |
| TERMINAL - DEPENDENT EXTENSION OVERLAY AREA The following field is overlaid by: TCTTEY1 : 2980 Control Extension TCTTEY2 : 3270 Display Data TCTTEY3 : 3735 Extension Area TCTTEY5 : 3600 Binary Synchronous Extension Area | | | | |
| (FC) | CHARACTER | 25 | TCTTETDE | Term Dep Ext Overlay area |
| 2980 CONTROL EXTENSION Terminal dependent extension overlay area | | | | |
| (FC) | CHARACTER | 2 | TCTTEY1 | 2980 control ext. |
| (FC) | BITSTRING | 1 | TCTTEFLG | 2980 control flags |
| | 1... | | * | |
| | .1.. | | TCTTEWKF | Work factor |
| | ..1. | | * | |
| | ...1 | | TCTTEB96 | Buffer expansion |
| | 1... | | TCTTESEG | SEGMENTED write |
| |1.. | | TCTTEPBI | PASSBOOK inserted on POLL |
| |1 | | TCTTEAAI | Station address in use |
| |1 | | TCTTEXTL | Data translate |
| (FD) | BITSTRING | 1 | TCTTETTV | VECTOR |
| | 1... | | * | |
| | .1.. | | * | |
| | ..1. | | TCTTESCN | 2980 SHIFT CHARACTER SCAN |
| | ...1 | | * | |
| | 1... | | * | |
| |1 | | TCTTETM4 | 2980 model 4 test |
| |1.. | | TCTTETM2 | 2980 model 2 test |
| |1 | | TCTTETM1 | 2980 model 1 test |
| 3270 DISPLAY DATA Terminal dependent extension overlay area | | | | |
| (FC) | CHARACTER | 25 | TCTTEY2 | 3270 display area |
| (FC) | ADDRESS | 4 | TCTTEBDA | Blocking data area addr |
| (100) | HALFWORD | 2 | TCTTELSV | Retention |
| (102) | BITSTRING | 1 | TCTTEDOC | Byte 1 Storage Allocation |
| | 1... | | TCTTE3SR | 3270 save request |
| | .1.. | | TCTTEPRI | Printer running |
| | ..1. | | TCTTEPBF | Printer read buffer |
| | ...1 | | TCTTEPDI | Printer data |
| | 1... | | TCTTEPYI | COPY/PRINT |
| |1.. | | TCTTECRI | COPY/PRINT running |
| |1 | | TCTTESBI | Print save buffer |
| (103) | BITSTRING | 1 | TCTTEWCS | Save area |
| (104) | BITSTRING | 1 | TCTTEDOS | Byte 2 storage allocation |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| | 1... .. | | TCTTEDBI | Device BUSY |
| | .1. | | TCTTEPSI | Pending status message |
| | ..1. | | TCTTERLI | Read length saved |
| | ...1 | | TCTTEICI | Incomplete message |
| | 1... | | TCTTERKI | Keyboard |
| |1.. | | TCTTEWLI | Write length saved |
| |1. | | TCTTEIRF | INTERVENTION required |
| |1 | | TCTTEPIP | Print in progress |

3270 SEGMENTED WRITE AREA

| | | | | |
|-------|-----------|---|----------|---------------------------|
| (105) | BITSTRING | 1 | TCTE32SW | SEGMENTED write flag byte |
| | 1... .. | | TCTE32WI | SEGMENTED write indicator |
| (106) | CHARACTER | 2 | TCTE32RL | Len of remain SEG output |
| (108) | CHARACTER | 4 | TCTE32RA | Addr of remain SEG output |

3270 COMPATIBILITY AREA

| | | | | |
|-------|-----------|---|----------|-----------------------------------|
| (10C) | CHARACTER | 1 | TCTTECTT | Compatible terminal type |
| (10D) | CHARACTER | 1 | TCTTECTM | Compatible terminal model |
| (10E) | CHARACTER | 1 | TCTTERTT | Real terminal type |
| (10F) | CHARACTER | 1 | TCTTERMN | Real terminal model |
| (110) | BITSTRING | 1 | TCTTECSS | Compatible screen size |
| | 1... .. | | TCTTEC24 | 6X40 240 2260 |
| | .1. | | TCTTEC48 | 12X40 480 2260 |
| | ..1. | | TCTTEC96 | 12X80 960 2260 |
| | ...1 | | TCTTEC15 | 15X64 960 2265 |
| | 1... | | TCTTEC12 | 12X40 480 3270 |
| |1.. | | TCTTEC19 | 24X80 1920 3270 |
| |1. | | TCTTEFCP | FASTER 2260 compatible |
| |1 | | TCTTECFB | FULLBUF mode |
| (111) | BITSTRING | 1 | * | Reserved |
| (112) | HALFWORD | 2 | TCTTECSM | SMI BINARY position |
| (114) | BITSTRING | 1 | TCTTECFG | Compatibility flags |
| | 1... .. | | TCTTECMF | Compatible mode |
| | .1. | | TCTTESSF | SMI on screen |
| | ..1. | | TCTTECPZ | Print |
| | ...1 | | TCTTECTI | Compatible transaction in process |
| | 1... | | TCTTECT | Compatible transaction in control |
| |1.. | | TCTTECRC | Read conversion |
| |1. | | * | |
| |1 | | TCTTECDF | Convert data |

3735 EXTENSION AREA

Terminal dependent extension overlay area

| | | | | |
|------|-----------|---|----------|-------------------------|
| (FC) | CHARACTER | 4 | TCTTEY3 | 3735 extension area |
| (FC) | CHARACTER | 1 | TCTTEHCI | 3735 mode control flags |
| | 1... .. | | * | |
| | .1. | | TCTTEMIQ | INQUIRY mode |
| | ..1. | | TCTTEHGI | GETMAIN |
| | ...1 | | TCTTEMSF | ERROR status |
| | 1... | | TCTTEMEF | End of file |
| |1.. | | TCTTEBTC | Transmission complete |
| |1. | | TCTTEMBW | Batch mode - write |
| |1 | | TCTTEMBR | Batch mode - read |
| (FD) | CHARACTER | 3 | TCTTEDMP | Data retention area |

3600

BINARY SYNCHRONOUS EXTENSION AREA

Terminal dependent extension overlay area

| | | | | |
|-------|-----------|----|----------|--------------------------|
| (FC) | CHARACTER | 15 | TCTTEY5 | 3600 extension area |
| (FC) | FULLWORD | 4 | TCTTEMTU | Message input |
| (100) | ADDRESS | 4 | TCTTEMTI | Address input TIOA |
| (104) | ADDRESS | 4 | TCTTESTU | User output TIOA address |
| (108) | HALFWORD | 2 | TCTTEMLN | Input |
| (10A) | BITSTRING | 1 | TCTTEMLN | 3600 BSC control flags |
| | 1... .. | | TCTTEMWR | Write pending |
| | .1. | | TCTTEMTD | Output segment built |
| | ..1. | | TCTTEMSG | SEGMENTED write |

START - STOP SPECIFIC POLL AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (F3) | STRUCTURE | 9 | * | Overlay byte and TCAM Q name |
| (F3) | CHARACTER | 3 | TCTTESPA | POLL list header |
| (F6) | CHARACTER | 2 | TCTTESPC | Terminal Address |
| (F8) | CHARACTER | 4 | * | POLL list suffix |

SNA SYSTEM AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---------------------------|---|
| (F0) | STRUCTURE | 336 | * | AREAS |
| (F0) | CHARACTER | 4 | TCTEV TSA | VTAM system area start |
| (F0) | HALFWORD | 2 | TCTES OAL | Terminal data length |
| (F2) | HALFWORD | 2 | TCTEGRS | Size of queued GETMAIN request |
| This area (from TCTE_TRACE_3 to TCTE_TRACE_3_LEN) is traced | | | | |
| (F4) | CHARACTER | 44 | TCTE_TRACE_3 | TCTTE trace area 3 |
| SENSE DATA | | | | |
| (F4) | CHARACTER | 8 | TCTEV SSS | System sense and status area |
| (F4) | CHARACTER | 4 | TCTEV SDA | Sense area |
| (F4) | BITSTRING | 1 | TCTESS1 | Definition modifier system sense codes |
| (F5) | BITSTRING | 1 | TCTESS2 | Definition |
| (F6) | BITSTRING | 1 | TCTEUS1 | User sense byte 1 |
| (F7) | BITSTRING | 1 | TCTEUS2 | User sense byte 2 |
| (F8) | CHARACTER | 4 | TCTEV NSS | Node sense and status area * |
| (F8) | BITSTRING | 1 | TCTENSS1 | Node system sense byte 1 |
| (F9) | BITSTRING | 1 | TCTENSS2 | Node system sense byte 2 |
| (FA) | BITSTRING | 1 | TCTENUS1 | Node User sense byte 1 |
| (FB) | BITSTRING | 1 | TCTENUS2 | Node User sense byte 2 |
| (FC) | ADDRESS | 4 | TCTES LNK | ISC system OWNERSHIP CHAIN * |
| (FC) | ADDRESS | 4 | TCTENEXT | Address next TCTTE(session) * |
| (FC) | ADDRESS | 4 | TCTE_NEXT_ APPC_SURROG | Next PS APPC surrog |
| (100) | CHARACTER | 4 | TCTETRND | ISC transaction ID |
| (104) | BITSTRING | 1 | * | Reserved |
| (105) | BITSTRING | 1 | TCTES PS | ISC SYNC POINT flags |
| | | | TCTES PSH | ISC SHUNT received |
| | | | TCTES PAB | ISC ISSUE ABEND received |
| | | | TCTES PER | ISC ISSUE ERROR received |
| | | | TCTES PRB | ISC SYNC ROLLBACK received * |
| | | | TCTES PSS | ISC SYNC PT request sent |
| | | | TCTES PID | ISC IN DOUBT indicator |
| | | | TCTES PSR | received |
| | | | TCTES PPR | ISC PREPARE received |
| (106) | BITSTRING | 1 | TCTES PSA | ADDITIONAL SYNC PT flags |
| | | | * | |
| | | | TCTES PRP | Sent PREPARE |
| | | | TCTES PRC | Sent 'PREPARE INVITE' |
| | | | TCTES PRL | Sent 'PREPARE REQUEST EB' |
| | | | TCTER PRC | Received 'PREPARE INVITE' |
| | | | TCTER PRL | Received 'PREPARE REQUEST EB' |
| SYNC POINT status - not PROTOCOL FLAGS, but AUW LIFETIME | | | | |
| (107) | BITSTRING | 1 | TCTES PST | SYNC point status |
| | | | * | |
| | | | * | |
| | | | * | |
| | | | * | |
| | | | * | |
| | | | * | |
| | | | * | |
| | | | TCTES PUN | Session is known to not have done PROTECTED ACTIONS |
| (108) | BITSTRING | 1 | TCTES ARB | |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| | | | * | Reserved |
| The next flag only used if TCSEAR0I is on (new rules) | | | | |
| | | | TCTES ARR | State after Rollback flag On = go to Receive Off = go to Send |
| | | | * | Reserved |
| | | | * | Reserved |
| (109) | BITSTRING | 1 | * | Reserved |
| (10A) | BITSTRING | 1 | * | Reserved |
| | | | TCTES ABC | ABORT completely |
| | | | TCTES ABR | ABORT received |
| | | | TCTES ABS | ABORT sent |
| | | | TCTES ABP | ABORT pending |
| | | | * | |
| | | | * | |
| | | | TCTEEMX | ERP MSG expected |
| | | | TCTESER | Error processing state |
| (10B) | CHARACTER | 1 | TCTEATPN | Attached process memory |
| (10C) | ADDRESS | 4 | TCTEMII | MESSAGE INSERT information address |
| The BIT definitions in the following field match the BIT assignments in BYTES 16 and 17 of the LU6 BIND IMAGE | | | | |
| (110) | CHARACTER | 2 | TCTEARC | Information |
| (110) | BITSTRING | 1 | TCTEARC1 | Arch Info 1 X'80' and X'40' Reserved |
| | | | * | |
| | | | * | |
| | | | TCTESYSM | System message model |
| | | | TCTESCHM | SCHEDULER model |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|---|
| | 1... | | TCTEQM | QUEUE model |
| |1.. | | TCTELFM | LINEAR FILE model |
| |1. | | TCTEDL1M | DL/1 model |
| |1 | | TCTEFDM | FILE DEFINITION model |
| (111) | BITSTRING | 1 | TCTEARC2 | Arch Info 2 |
| | 1... | | TCTEOPCM | OPERATOR CONTROL model Other bits reserved |
| (112) | BITSTRING | 1 | TCTEISC1 | ISC flags |
| | 1... | | TCTE1RY | CICS is PRIMARY |
| | .1.. | | TCTE2RY | CICS is SECONDARY |
| | .1. | | TCTEDYN | PRI/SEC is DYNAMIC |
| | ...1 | | * | |
| | 1... | | TCTEWIN | LUC CONTENTION WINNER |
| |1.. | | TCTELSE | LUC CONTENTION LOSER |
| |1. | | * | |
| |1 | | TCTEBCL | BINDING as CONTENTION LOSER |
| (113) | BITSTRING | 1 | TCTENEPS | NEPLCLASS static definition |
| (114) | CHARACTER | 2 | TCTESQNS | sequence number BUCKETS |
| (114) | HALFWORD | 2 | TCTESQIP | PHYSICAL INBOUND sequence number |
| (116) | HALFWORD | 2 | TCTESQOP | PHYSICAL OUTBOUND sequence number |
| (118) | HALFWORD | 2 | TCTESQIL | LOGICAL INBOUND sequence number |
| (11A) | HALFWORD | 2 | TCTESQOL | LOGICAL OUTBOUND sequence |
| (11C) | HALFWORD | 2 | TCTESQR1 | OUR BB SEQ no sent |
| (11E) | HALFWORD | 2 | TCTESQR2 | HIS BB SEQ no sent |
| TCTE_TRACE_3_LEN End of TCTTE trace area 3 | | | | |
| ATTACH REQUIRED FIELDS | | | | |
| TASK REQUEST COLLECTOR (1) | | | | |
| (120) | BITSTRING | 1 | TCTETRC1 | Byte 2 storage allocation |
| TASK REQUEST COLLECTOR (2) | | | | |
| (121) | BITSTRING | 1 | TCTETRC2 | Byte 3 Storage Allocation |
| | 1... | | * | |
| | .1.. | | * | |
| | .1. | | * | |
| | ...1 | | TCTEOCC | OUTBOUND chain control |
| | 1... | | * | |
| |1.. | | TCTEMI | Message INTEGRITY(POSITIVE response) |
| |1. | | * | |
| |1 | | TCTEOWO | ONE WRITE ONLY indicator |
| (122) | BITSTRING | 1 | TCTESUP1 | Required features (1) |
| (123) | BITSTRING | 1 | TCTESUP2 | Required features (2) |
| (124) | BITSTRING | 1 | TCTENSP1 | Unsupported features (1) |
| (125) | BITSTRING | 1 | TCTENSP2 | Unsupported features (2) |
| (126) | CHARACTER | 5 | TCTEJINF | GROUP next 5 bytes together KCP uses TCTEJINF for copy from PCT |
| JOURNALLING & I/O definition (NOTE - CONCATENATION with following 2 fields by TCTEJINF) | | | | |
| (126) | BITSTRING | 1 | TCTEJSA | JOURNALLING and I/O def |
| | 1... | | TCTEFHA | All FMH'S to APPLN program |
| | 1... | | TCTEEXNO | EXTRACT=NO |
| | .1.. | | TCTEFHE | EODS FMH'S to APPLN program |
| | .1. | | TCTEEXAT | EXTRACT=ATTACH |
| | .1. | | TCTEAI0 | ASYNCHRONOUS I/O |
| | ...1 | | TCTESIO | SYNCHRONOUS I/O |
| | 1... | | TCTEFHD | DFHDIP to process FMH |
| |1.. | | TCTELRQ | Transaction requires logical record |
| |1. | | TCTEIMJ | Automatic message JOURNALLING on INPUT |
| |1 | | TCTEOMJ | Automatic message JOURNALLING on OUTPUT |
| (127) | BITSTRING | 1 | TCTEXTOP | EXTRACT options |
| (128) | BITSTRING | 1 | TCTEOPT2 | EXTRA options |
| | 1... | | TCTESRAQ | RAQ=YES specified |
| | .1.. | | TCTETUCT | UC translate required |
| | .1. | | * | |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | * | |
| |1. | | * | |
| |1 | | * | |
| (129) | BITSTRING | 1 | TCTEJID | JOURNALLING JOURNAL ID |
| (12A) | BITSTRING | 1 | TCTENEPC | Node error program class ID |
| end of COPIED FIELDS from PCT | | | | |
| (12B) | BITSTRING | 1 | * | |
| | 1... | | TCTENBD | NIB disabled - ZCLS cleanup needed |
| | .1.. | | TCTECRQ | Real CLSDST reqd |
| (12C) | CHARACTER | 4 | TCTEIRET | Access method RETCODE |
| (130) | CHARACTER | 8 | TCTENET | Applid of TOR |
| (130) | CHARACTER | 8 | TCTE_TITOKEN | token for remote delete |
| Communications Recovery Services storage | | | | |
| (138) | CHARACTER | 38 | CR_STORAGE | |
| Access method independent Communications Recovery Services storage | | | | |
| (138) | CHARACTER | 20 | CR_COMMON_STG | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|-------------------|--|
| Access method dependent Communications Recovery Services storage | | | | |
| (14C) | CHARACTER | 11 | CR_OVERLAY_STG1 | |
| (14C) | CHARACTER | 2 | * | |
| (14E) | CHARACTER | 9 | * | |
| (158) | CHARACTER | 6 | CR_OVERLAY_STG2 | |
| (15E) | CHARACTER | 2 | * | reserved |
| (160) | CHARACTER | 16 | TCTE_RES_SNA | Reserved |
| (170) | CHARACTER | 4 | TCTEACSA | Access method SPECIFIC OVERLAY part of SNA system area |
| VTAM SYSTEM AREA | | | | |
| (170) | ADDRESS | 4 | TCTEFMSA | Address of area to be freed |
| (174) | ADDRESS | 4 | TCTEASRA | ASYNCH TCP RESUME address |
| (178) | ADDRESS | 4 | TCTEHACP | ACTIVATE chain address |
| (17C) | FULLWORD | 4 | TCTECID | VTAM communications ID |
| (180) | ADDRESS | 4 | TCTEVSSC | SYST SERVICE chain address |
| (184) | HALFWORD | 2 | TCTELDCI | LDC index into lookup tbl |
| (186) | BITSTRING | 1 | TCTEPRUS | PRIMARY RU SIZE |
| (187) | BITSTRING | 1 | TCTESRUS | SECONDARY RU SIZE |
| (188) | HALFWORD | 2 | TCTESQOS | number |
| (18A) | HALFWORD | 2 | TCTESQRP | Turnaround count field |
| (18C) | HALFWORD | 2 | TCTESQSC | number |
| (18E) | HALFWORD | 2 | TCTESQER | ERROR SEQUENCE number |
| (190) | HALFWORD | 2 | TCTEOAL | Maximum allowable output |
| (192) | HALFWORD | 2 | TCTECHMX | Maximum chain size |
| (194) | HALFWORD | 2 | TCTERUSZ | Maximum RU size |
| (196) | HALFWORD | 2 | TCTELROF | Offset of next logical REC |
| (198) | ADDRESS | 4 | TCTELRTA | Deblocking |
| (19C) | ADDRESS | 4 | TCTELLDC | Local available LDC table |
| (1A0) | FULLWORD | 4 | TCTEEIDA | EXIT ID TRACE area |
| (1A0) | BITSTRING | 1 | TCTEEID0 | EXIT ID capture area |
| (1A1) | BITSTRING | 1 | TCTEEID1 | EXIT ID 1 |
| (1A2) | BITSTRING | 1 | TCTEEID2 | EXIT ID 2 |
| (1A3) | CHARACTER | 1 | TCTEMDID | MODULE identifier |
| (1A3) | BITSTRING | 1 | TCTEEID3 | EXIT ID 3 |
| (1A4) | CHARACTER | 4 | TCTECSV | A(TEDA) if change directio |
| (1A4) | FULLWORD | 4 | TCTERCSV | Error save area |
| This area (from TCTE_TRACE_5 to TCTE_TRACE_5_LEN) is traced | | | | |
| (1A8) | CHARACTER | 57 | TCTE_TRACE_5 | TCTTE trace area 5 |
| INTERNAL ERROR CODE AREA | | | | |
| (1A8) | BITSTRING | 8 | TCTE_ZNAC_ERRCODE | Group error codes |
| (1A8) | BITSTRING | 2 | TCTEER15 | Internal error code 5 |
| (1A8) | BITSTRING | 1 | TCTEVR15 | Internal error code 5 |
| (1A9) | BITSTRING | 1 | TCTEMID5 | Prog ID for error code 5 |
| (1AA) | BITSTRING | 2 | TCTEER16 | Internal error code 6 |
| (1AA) | BITSTRING | 1 | TCTEVR16 | Internal error code 6 |
| (1AB) | BITSTRING | 1 | TCTEMID6 | Prog ID for error code 6 |
| (1AC) | BITSTRING | 2 | TCTEER17 | Internal error code 7 |
| (1AC) | BITSTRING | 1 | TCTEVR17 | Internal error code 7 |
| (1AD) | BITSTRING | 1 | TCTEMID7 | Prog ID for error code 7 |
| (1AE) | BITSTRING | 2 | TCTEER18 | Internal error code 8 |
| (1AE) | BITSTRING | 1 | TCTEVR18 | Internal error code 8 |
| (1AF) | BITSTRING | 1 | TCTEMID8 | Prog ID for error code 8 |
| The following two internal error code slots are for use by the DFHZERRM TYPE=OVERFLOW_1 macro call only. These slots are used as an 'overflow' when the standard four internal slots all used up. | | | | |
| (1B0) | BITSTRING | 2 | TCTEER19 | Internal error 9 |
| (1B0) | BITSTRING | 1 | TCTEVR19 | Internal error 9 |
| (1B1) | BITSTRING | 1 | TCTEMID9 | Prog ID for error 9 |
| (1B2) | BITSTRING | 2 | TCTEER1A | Internal error 10 (A) |
| (1B2) | BITSTRING | 1 | TCTEVR1A | Internal error 10 (A) |
| (1B3) | BITSTRING | 1 | TCTEMIDA | Prog ID for error 10 |
| (1B4) | ADDRESS | 4 | TCTEAWEA | AWE address |
| (1B4) | ADDRESS | 4 | TCTE_CTINDATA_PTR | Pointer to CTIN data |
| ACTIVATE CHAIN REQUESTS | | | | |
| (1B8) | CHARACTER | 4 | TCTEACR | Activate request bytes |
| (1B8) | BITSTRING | 1 | TCTEACR1 | Byte 1 storage allocation |
| | .1.. | | TCTECGR | GETMAIN |
| | ..1. | | TCTECFR | FREEMAIN |
| | ...1 | | TCTECAT | ATTACH |
| | 1.. | | TCTECRC | ASYNCH return of control |
| |1. | | TCTECRR | RESUME |
| |1 | | TCTERCS | RECEIVE SPECIFIC |
| | | | * | Reserved |
| | | | * | Reserved |
| (1B9) | BITSTRING | 1 | TCTEACR2 | Byte 2 storage allocation |
| | .1.. | | TCTECSS | SEND SYNC data flow |
| | ..1. | | TCTECSA | SEND ASYNCH commands |
| | ...1. | | TCTECSC | SESSIONC |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|------------|---|
| | 1... | | TCTECSR | SEND response |
| | 1... | | TCTECSRS | RESETSR |
| |1.. | | TCTEBYP | Delay ACTIVATE SCAN of TCTTE |
| |1.. | | TCTECXA | EXIT added |
| |1.. | | TCTECDT | DETACH |
| (1BA) | BITSTRING | 1 | TCTEACR3 | Byte 3 Storage Allocation |
| | 1... .. | | TCTECOR | OPNDST |
| | .1.. .. | | TCTECCT | CLSDST |
| | .1.. .. | | TCTECT1 | Automatic task initiate |
| | 1... | | TCTECSL | SIMLOGON |
| | 1... | | TCTECRY | RESYNCH |
| |1.. | | TCTECEA | NACP |
| |1.. | | TCTEDEL | AUTOINSTALL activate scan primed for delete |
| |1.. | | TCTECKR | Send response to command |
| (1BB) | BITSTRING | 1 | TCTEACR4 | Byte 4 Storage Allocation |
| | 1... .. | | TCTETRA | TRACE ENTRY required |
| | .1.. .. | | TCTESDL | SEND SYNC LUTYPE 6.2 |
| | .1.. .. | | TCTERVL | RECEIVE SPEC LUTYPE 6.2 |
| | 1111 | | TCTEXRC | XRF Session state analys. |
| (1BC) | BITSTRING | 1 | TCTERIND | ZACT reserved |
| | 1... .. | | TCTERFB | Internal error indicators |
| | .1.. .. | | TCTERLS | VTAM FEEDBACK available |
| | .1.. .. | | TCTERLR | SEND required after LUS |
| | 1... | | TCTESRV | RECEIVE required after LUS |
| |1.. | | TCTECDH | REMEMBER user RECEIVE flag |
| |1.. | | * | HARD SIGNAL RCD received |
| |1.. | | TCTERDS | reserved |
| |1.. | | TCTERDR | RECEIVE req'd after dvend |
| (1BD) | BITSTRING | 1 | TCTEVPAC | SEND required after dvend |
| (1BE) | BITSTRING | 1 | * | V-PACING constant |
| (1BF) | BITSTRING | 1 | TCTEVIR1 | reserved |
| | | | | Byte 1 storage allocation |
| PACING AND RU COUNT BYTES | | | | |
| VTAM INTERNAL REQUESTS | | | | |
| for ZSDS ROUTINE | | | | |
| | 1... .. | | TCTECHS | CHASE |
| | .1.. .. | | TCTECNCL | CANCEL |
| | .1.. .. | | TCTEQCM | QUIESCE complete |
| | 1... | | TCTECBD | BID |
| |1.. | | TCTELUS | Logical unit status |
| |1.. | | TCTESXC | SEND COMMAND EXCEPTION |
| |1.. | | TCTERTR | RTR |
| |1.. | | TCTETBIS | BIS SEND REQUEST |
| (1C0) | BITSTRING | 1 | TCTEVIR2 | BIS SEND REQUEST |
| | 1... .. | | TCTECLR | Byte 2 storage allocation |
| | .1.. .. | | TCTESDT | CLEAR |
| | .1.. .. | | TCTESTSN | Start data traffic |
| | 1... | | TCTESNU | SET AND TEST sequence number |
| |1.. | | TCTEDR2 | SEND zero data length |
| |1.. | | TCTESAB | DR2 requested |
| |1.. | | TCTEBSS | STAND ALONE BB required for 3270 |
| |1.. | | TCTEESS | BEGIN BRACKET request |
| (1C1) | BITSTRING | 1 | TCTEVIR3 | END BRACKET request |
| | 1... .. | | TCTERSP | Byte 3 Storage Allocation |
| | .1.. .. | | TCTEWDA | RECEIVE SPECIFIC |
| | .1.. .. | | TCTESCM | SEND DATA |
| | 1... | | TCTEORSP | SEND COMMAND |
| |1.. | | TCTEDCA | SEND RESP type 0=+VE 1=-VE |
| |1.. | | TCTERAT | Change to CA mode |
| |1.. | | TCTECWT | Read attention |
| |1.. | | TCTESXD | CTYPE wait request |
| (1C2) | BITSTRING | 1 | TCTEVIR4 | SEND DATA EXCEPTION |
| | 1... .. | | TCTECP | Byte 4 storage allocation |
| | .1.. .. | | TCTECTA | GETMAIN - RPL |
| | .1.. .. | | TCTECRAS | GETMAIN - TIOA |
| | 1... | | TCTEGNB | GETMAIN - RECEIVE ANY |
| |1.. | | TCTEGLC | GETMAIN - NIB/BIND |
| (1C3) | BITSTRING | 1 | TCTEVIR5 | GETMAIN - BUFFLST |
| | 1... .. | | TCTERPL | GETMAIN - LUC control blocks |
| | .1.. .. | | TCTECFA | Byte 5 storage allocation |
| | .1.. .. | | TCTECFS | FREEMAIN - RPL |
| | 1... | | TCTEFNB | FREEMAIN - all |
| |1.. | | TCTEFBF | FREEMAIN - specific |
| |1.. | | TCTEFNC | FREEMAIN - NIB/BIND |
| |1.. | | TCTEFNL | FREEMAIN - BUFFLST |
| |1.. | | TCTEFNR | FREEMAIN - LUC control blocks |
| (1C4) | BITSTRING | 1 | TCTEVIR6 | FREEMAIN - EXTR'D LOGON data |
| | 1... .. | | TCTECTS | FREEMAIN - RPL specific |
| | .1.. .. | | TCTECVI | Byte 6 storage allocation |
| | .1.. .. | | TCTECVD | Use symbol name for CLSDST |
| | 1... | | TCTEPAS | IMMEDIATE availability |
| |1.. | | TCTECPV | DEFERRED availability |
| |1.. | | TCTEBWD | CLSDST pass |
| |1.. | | TCTEPRT | BID rejected |
| | | | | BIDDING with data |
| | | | | RTR SEND pending |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---|---|
| (1C5) | BITSTRING | 1 | TCTESWT TCTERSRR TCTERCMO * TCTERUB TCTERMOD | XRF SWITCH required Byte 7 storage allocation CONTINUE mode * Reject RU until BB RECEIVE mode |
| SYSTEM SERVICE QUEUE FLAG | | | | |
| (1C6) | BITSTRING | 1 | TCTEISSQ TCTESNQ * * TCTEOPQ * * * * | Byte storage allocation System error queue Reserved Reserved On Activate Process Queue * * * * |
| EMW REQUEST AND STATUS FLAGS | | | | |
| (1C7) | BITSTRING | 1 | TCTEEMF TCTEPUR TCTESEM TCTESNR * * * * TCTEEMW * | Byte Storage Allocation PURGE request SEND MESSAGE request SEND NEGATIVE response * * * * Error message writer active * |
| RECEIVE flags | | | | |
| (1C8) | BITSTRING | 1 | * TCTERVR TCTERVD TCTERBP TCTERRU TCTEXSC TCTEXPU TCTEQRQ TCTENRQ | Byte storage allocation RECEIVE a response RECEIVE data BID PURGE in progress RECEIVE and PURGE ONE RU SDT after clear required XRF RECEIVE PURGE QRI-type response is queued * NORMAL response is queued |
| (1C9) | BITSTRING | 1 | TCTEIXRP TCTEXNR TCTEXRM TCTEXRT TCTEXPT TCTEXCC TCTEXNO TCTEXEB TCTEXCL TCTEXUB | XRF Flags XRF Term not Recovered XRF Recovery Msg reqd XRF Recovery Tranact reqd XRF Purge task Cleanup Action flags Cleanup Action is NONE Cleanup Action is SEND-EB Cleanup Action is CLEAR/SDT * Cleanup Action is UNBIND |
| ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only | | | | |
| (1CA) | BITSTRING | 1 | * * * TCTERSH TCTEESG TCTETSBI TCTERLSQ TCTEQEOC TCTERSD | ASYNCHRONOUS request byte * * Request SHUTDOWN E-SIGNAL SBI SEND request RELEASE QUIESCE QUIESCE at end of chain Request SHUTDOWN |
| (1CB) | BITSTRING | 1 | TCTELTEC | LOSTERM Error code |
| LRP REQUEST AND STATUS FLAGS | | | | |
| (1CC) | BITSTRING | 1 | TCTELRPF TCTELRP TCTELRD TCTELRN * TCTELRC TCTELRZ | Byte Storage Allocation Logical REC PRESENTATION Deblock in progress No delimiter in input unit * SAVE flag for EOC indicator SAVE flag for EODS indicator |
| VTAM PROCESS STATUS OPERATION IN PROGRESS | | | | |
| (1CD) | BITSTRING | 1 | TCTEVTSP TCTECIP TCTEDIP TCTEAIP TCTENIP TCTERSI TCTECAP TCTERNW TCTECCV | Byte storage allocation COMMAND in progress DATA in progress ATI BID in progress NACP in progress RESYNCH/RECOVERY in progress CHAIN ASSEMBLY in progress INPUT JOURNAL required flag 1=TASK VIA AVAIL,0=VIA INPUT |
| (1CE) | BITSTRING | 1 | TCTEVOP2 TCTEDRQ * | Byte 2 Storage Allocation Data required after STAND ALONE FMH Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------------|-----------|-----|------------|---|
| | .1. | | TCTEQE2 | RESP + to REQ2 outstanding |
| | ...1 | | TCTENND | No normal data flow allowed |
| | 1... | | TCTERAQ | READ-AHEAD QUEUEING required |
| |1. | | TCTERAD | READ-AHEAD DATA available |
| |1. | | TCTERAP | READ-AHEAD PURGE required |
| |1 | | TCTERVP | RECEIVE PURGE required |
| NODE SESSION STATUS | | | | |
| (1CF) | BITSTRING | 1 | TCTEVTSS | Node session status one byte |
| | 111. | | TCTENIS | Node is now is session |
| | 1... | | TCTELOS | LOGGED on |
| | .1. | | TCTEOPD | OPNDST |
| | .1. | | TCTENSD | Start data traffic sent |
| | ...1 | | TCTESLP | SIMLOGON in progress |
| | 1... | | TCTEREO | RESPONSE outstanding |
| |1. | | * | Reserved |
| |1. | | TCTESHP | SHUTDOWN sent by CICS |
| |1 | | TCTERELR | RELEASE request received |
| (1D0) | BITSTRING | 1 | TCTEVS2 | Node session status byte 2 |
| | 1... | | TCTENQS | Node QUIESCED by CICS |
| | .1. | | TCTEHQS | CICS QUIESCED by node |
| | .1. | | TCTECSM | Mode (CS=X'20' CA= ~ X'20') |
| | ...1 | | TCTEOLD | OVERLENGTH data |
| | 1... | | TCTEBPE | BRACKET PROTOCOL required |
| |1. | | TCTEERS | EMERGENCY restart |
| |1. | | TCTEPSA | PREVIOUS SESSION ABEND |
| |1 | | TCTERPR | RESYNCHRONIZATION required |
| SESSION CHARACTERISTICS | | | | |
| (1D1) | BITSTRING | 1 | TCTEVISC | Byte storage allocation |
| | 1... | | TCTEERL | Eligible to be released |
| | .1. | | TCTIQSL | SIMLOGON to be queued |
| | .1. | | TCTEDRI | Eligible to be disconnected |
| | ...1 | | TCTEXCA | Current session is XRF-capable * |
| | 1... | | TCTEXCM | EXC. RESP. Commands valid |
| |1. | | TCTEXRE | Take-over must reconnect by switch or BIND as appropriate * |
| |1. | | TCTEXCS | Last OPNDST was OPTCD=BACKUP * |
| |1 | | TCTECAR | Chain assembly requested by terminal |
| PENDING EVENT STATUS | | | | |
| (1D2) | BITSTRING | 1 | TCTEVIPS | Byte storage allocation |
| | 1... | | TCTEORRN | Pending RRN response |
| | .1. | | TCTEOFME | Pending FME response |
| | .1. | | TCTEBNS | BIND TIME security undefined |
| | ...1 | | TCTEPRA | Awaiting POSITIVE response |
| | 1... | | TCTEOEXM | Response (0=+VE &-VE 1=-VE) |
| |1. | | * | Reserved |
| |1. | | TCTEQRI | QRI type response |
| |1 | | TCTEDEF | DEFINITE response send in progress (was TCTEDRS) |
| (1D3) | BITSTRING | 1 | TCTEVIP2 | Byte 2 storage allocation |
| | 1... | | TCTEWGS | Task Awaiting for INBOUND SIGNAL |
| | .1. | | TCTELGX | LOGON EXIT in progress |
| | .1. | | * | Reserved |
| | ...1 | | TCTECD5 | CHANGE DIRECTION sent |
| | 1... | | TCTECMT | RESPOND POSITIVE to SPR |
| |1. | | TCTESQA | Start task REQ no active request |
| |1. | | TCTESEO | EXCEPTION response outstanding |
| |1 | | TCTECDV | CHANGE DIRECTION save TIOA |
| BRACKET PROTOCOL STATUS | | | | |
| (1D4) | BITSTRING | 1 | TCTEVBPS | Byte Storage Allocation |
| | 1... | | TCTEINB | In BRACKET state |
| | .1. | | TCTEBBP | BEGIN BRACKET pending |
| | .1. | | TCTEEEB | BB EB sent state |
| | ...1 | | TCTEBBS | BEGIN BRACKET sent |
| | 1... | | TCTEEBS | END BRACKET sent |
| |1. | | TCTEBBR | BEGIN BRACKET received |
| |1. | | TCTEBBA | BEGIN BRACKET receive |
| |1 | | TCTEBTB | BETWEEN BRACKETS |
| EXTENDED BRACKET STATE FLAGS | | | | |
| (1D5) | BITSTRING | 1 | * | |
| | 1... | | TCTERTP | RTR pending state |
| | .1. | | TCTEBRT | BID TO BE RETRIED indicator |
| | .1. | | TCTEBRP | BIDDING in progress |
| | ...1 | | TCTEBRS | REBID if necessary |
| | 1... | | * | |
| |1. | | TCTEEBM | END BRACKET memory flag |
| |1. | | TCTEEBR | EB received |
| |1 | | TCTEBEB | BB EB received state |
| ZRAC flag byte | | | | |
| (1D6) | BITSTRING | 1 | * | |
| | 1... | | TCTERNU | NULL RU / LUS 6 received |
| | .1. | | TCTERCM | Command received |
| | .1. | | TCTERDT | Data received |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-----------------------|---------------------------------|
| | 1... | | TCTERRS | Response received |
| | 1.. | | TCTEBSC | BIND security complete |
| |1.. | | TCTERAE | ZRAC to EXECUTE |
| |1. | | TCTERAN | ZRAC possibly to RUN |
| |1 | | TCTESKI | ZRAC to SKIP |
| TRANSMISSION PROTOCOL STATUS | | | | |
| (1D7) | BITSTRING | 1 | TCTEVTP | Byte storage allocation |
| | 1... .. | | TCTESMP | SEND mode pending |
| | .1.. .. | | TCTEPRC | Processing chain state |
| | ..1. | | TCTESMA | SEND mode assumed |
| | ...1 | | TCTESMD | SEND mode |
| | 1... | | TCTEECN | OUTBOUND processing chain state |
| |1.. | | TCTEABD | ABNORMAL END condition |
| |1. | | TCTERMD | RECEIVE mode |
| |1 | | TCTECPG | CHAIN PURGED indicator |
| CLSDEST STATUS | | | | |
| (1D8) | BITSTRING | 1 | TCTECLST | CLSDEST status byte |
| | 1... .. | | TCTESBIS | SBI sent |
| | .1.. .. | | TCTEMTO | TERM issued SHUTDOWN |
| | ..1. | | TCTEBISI | BIS SEND in progress |
| | ...1 | | TCTEFBIS | First BIS was sent by us |
| | 1... | | * | |
| |1.. | | TCTESBIR | SBI received |
| |1. | | TCTEBISS | BIS sent |
| |1 | | TCTEBISR | BIS received |
| SEND RESPONSE TO COMMAND REQUEST | | | | |
| (1D9) | BITSTRING | 1 | * | |
| | 1... .. | | TCTEKNE | SEND NEGATIVE response |
| | .1.. .. | | TCTEKSD | SEND SDT response |
| | ..1. | | TCTEKBD | SEND BIND response |
| | ...1 | | TCTEKCA | SEND SMD response CA mode |
| | 1... | | TCTEKST | SEND STSN response |
| |1. | | TCTESUS | Suspend activate scan |
| |1 | | TCTERMC | response to MIC sent |
| LUTYPE6.2 State Machines | | | | |
| (1DA) | BITSTRING | 1 | TCTEUSRS | CONVERSATION state machine |
| (1DB) | BITSTRING | 1 | TCTEBKTS | BRACKET state machine |
| (1DC) | BITSTRING | 1 | TCTECNTS | CONTENTION state machine |
| (1DD) | BITSTRING | 1 | TCTECHSS | CHAIN state machine |
| (1DE) | BITSTRING | 1 | TCTEACC | ACC FIELDS required |
| | 1... .. | | TCTEACC1 | ACC field 1 required |
| | .1.. .. | | TCTEACC2 | ACC field 2 required |
| | ..1. | | TCTEACC3 | ACC field 3 required |
| | ...1 | | TCTEACC4 | ACC field 4 required |
| | 1... | | TCTEACC5 | ACC field 5 required |
| |1. | | TCTEACC6 | ACC field 6 required |
| |1. | | TCTEACC7 | ACC field 7 required |
| |1 | | TCTEACC8 | ACC field 8 required |
| The following byte is in the SAME format as the BIND RU | | | | |
| (1DF) | CHARACTER | 1 | TCTESSPL | SPL,LU_SVC byte DEF |
| | 1... .. | | * | |
| | .1.. .. | | TCTESP2 | --- all |
| | ..1. | | TCTESP1 | --- commit |
| | ...1 | | TCTERS1 | --- restart supported |
| | 1... | | * | SECONDARY REINIT |
| |1. | | * | PRIMARY REINIT |
| |1. | | TCTEPAR | PARALLEL SESSION |
| |1 | | TCTECNO | CNOS supported |
| (1E0) | BITSTRING | 1 | TCTEL62A | LUTYPE 6.2 MISCELLANY |
| | 1... .. | | TCTESBB | CURR BB SEQ NO = OURS |
| | .1.. .. | | TCTENIT | We Init'd session |
| | ..1. | | TCTEESR | ext. sec. recvd in BIND |
| | ...1 | | TCTENOB | No BB for this allocate |
| | 1... | | * | |
| |1. | | * | |
| |1. | | TCTE_LR | Limited Resource |
| |1 | | * | |
| TCTE_TRACE_5_LEN End of TCTTE trace area 5 | | | | |
| The next byte is used to save pending User SYNCPT INFO | | | | |
| (1E1) | BITSTRING | 1 | TCTEUSRV | TCTEUSRS pending info |
| (1E2) | UNSIGNED | 1 | TCTE_ZBAN_RESPONSE | Response for ZNAC msg |
| (1E3) | UNSIGNED | 1 | TCTE_ZBAN_REASON | Reason for ZNAC msg |
| (1E4) | ADDRESS | 4 | TCTTMOD | -> Mode-entry |
| (1E4) | ADDRESS | 4 | TCTE_PREV_APPC_SURROG | |
| | | | | Next PS APPC surrog |
| (1E8) | ADDRESS | 4 | TCTE_ACQUIRE_DATA | Acquire userdata |
| (1EC) | ADDRESS | 4 | TCTEBIMG | -> BIND-image |
| (1F0) | BITSTRING | 1 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|----------------------|--|
| XRF Flags | | | | |
| (1F1) | BITSTRING | 1 | * | |
| | 1... .. | | TCTEXON | No tracking |
| | .1.. | | TCTEXOD | Cleanup : Send END BRACKET * |
| | ..1. | | TCTEXOC | Cleanup : Issue CLEAR cmd |
| | ...1 | | TCTEXOR | Cleanup : UNBIND session |
| | 1... | | TCTEXOT | Unconditional UNBIND |
| |1.. | | TCTEXNN | RecovNotify = None |
| |1. | | TCTEXNM | RecovNotify = Message |
| |1 | | TCTEXNT | RecovNotify = Transaction |
| XRF Flags, gathered up from other areas | | | | |
| (1F2) | BITSTRING | 1 | * | Misc XRF Bits |
| | 1... .. | | TCTEXNG | NETNAME removed from TMP |
| | .1.. | | TCTEXSB | OPNDST is to be STANDBY |
| | ..1. | | TCTEXSW | XRF Analyse R(Switch) |
| | ...1 | | TCTEXNC | XRF ZNAC Recovery Process |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | TCTEXS1 | Takeover signon flag OFF = NOFORCE, ON = FORCE |
| |1 | | TCTEXRO | XRF - Override XRF capable if set to 1 it stops the XRF vector being created subsequent to the logon exit. |
| TCTE ACQUIRE OPTIONS | | | | |
| (1F3) | BITSTRING | 1 | TCTE_ACQUIRE_OPTIONS | Acquire options |
| | 1... .. | | TCTE_SIMLOG_RQD | SIMLOGON reques |
| | .1.. | | TCTE_QALL_RQD | QALL option |
| | ..1. | | TCTE_QSESSLIM_RQD | QSESSLIM option |
| | ...1 | | TCTE_QNOTENAB_RQD | QNOTENAB OPTION |
| | 1... | | TCTE_RELREQ_RQD | RELREQ option |
| |111 | | * | Reserved |
| SESSION FUNCTIONS DEFINITION | | | | |
| (1F4) | FULLWORD | 4 | * | Ensure alignment |
| (1F4) | BITSTRING | 1 | TCTETSPB | Terminal session pool byte |
| | 1... .. | | TCTEXSL | Standby LOGON pending |
| | .1.. | | TCTESPLI | Pool/session leader |
| | ..1. | | TCTETPSI | Session terminal indicator |
| | ...1 | | * | |
| | 1... | | TCTEPTI | Pool terminal indicator |
| |1.. | | TCTEXSN | Standby session counted |
| (1F5) | BITSTRING | 1 | * | |
| | 1... .. | | TCTEPTBI | Indicator |
| | .1.. | | TCTEPRQ | PROGRAM request indicator |
| | ..1. | | TCTEOWCI | ON WRITE COMPLETEDIND. |
| | ...1 | | TCTENCD | CD NOT REQUIRED |
| | 1... | | TCTE_ZCNIBISC | Nib gotten from ZCNIBISC |
| |1.. | | TCTERLM | Resume after LUSTAT |
| (1F6) | BITSTRING | 1 | TCTESFFB | Session feature flag byte |
| | 1... .. | | TCTECSNI | CSSN feature indicator |
| | .1.. | | TCTEFUP | Pass FMH to User |
| | ..1. | | TCTESNS | SIMLOGON INVALID indicator |
| | ...1 | | TCTELIRI | LUSTATUS sent after IR |
| | 1... | | TCTEVTSI | VTAM supported 3270 indicator |
| |1.. | | TCTECPMI | 3270 COMPATIBILITY mode IND |
| |1. | | TCTEGMMI | GOOD MORNING message required |
| |1 | | TCTERYCF | RECOVERY requires CLSDST |
| (1F7) | BITSTRING | 1 | * | Session function definition |
| | 1... .. | | TCTECSRI | COLD START request indicator |
| | .1.. | | TCTEEOB | No EOB support indicator |
| | ..1. | | TCTENOCI | No output chain support IND |
| | ...1 | | TCTENASI | No ATI support terminal |
| | 1... | | TCTENFRI | No FMH required indicator |
| |1.. | | TCTENFSI | No FMH support terminal |
| |1. | | TCTESEB | END BRACKET on every write |
| |1 | | TCTESDA | CONTINUE ANY on every write |
| (1F8) | BITSTRING | 1 | TCTESD2 | Byte Storage Allocation |
| | 1... .. | | TCTESDBP | HALF-DUPLEX FLIP-FLOP |
| | .1.. | | TCTESDEM | EMW - type session |
| | ..1. | | TCTESDLD | LDC - type session |
| | ...1 | | TCTENQCI | No QEC supported on output |
| | 1... | | TCTESDED | SEND EB with DEFINITE response required |
| |1.. | | TCTESDIS | INBOUND SIGNAL supported |
| |1. | | TCTESBDI | LONG TYPE1 FMH supported |
| |1 | | TCTETRC | Trace ACTIVATE SCAN |
| (1F9) | BITSTRING | 1 | TCTESD3 | Byte Storage Allocation |
| | 1... .. | | TCTES2EB | SECONDARY can SEND EB |
| | .1.. | | TCTESRPI | SENDER ERP RESPONSIBILITY |
| | ..1. | | TCTESBIF | SBI/BIS supported |
| | ...1 | | TCTEFNSP | SPR supported |
| | 1... | | TCTEFNPR | PREPARE supported |
| |1.. | | TCTEFLUS | LUSTAT SENDING supported |
| |1. | | TCTEFST | FAST PATH session |
| |1 | | TCTENCK | BB,EB supported |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|---|---|
| (1FA) | CHARACTER | 2 | TCTEINSH | . |
| (1FA) | BITSTRING | 1 | TCTESD4 | Byte Storage Allocation |
| | 1... .. | | TCTENDT | No SDT supported |
| | .1. | | TCTENSH | No SHUTD support |
| | .1. | | TCTEQRS | QRI response supported |
| | ...1 | | TCTECDX | SEND CD with RQE |
| | 1.. | | TCTEBID | NULL RU with BB = BID |
| |1. | | TCTESDN | SIGNAL will drive NACP |
| |1. | | TCTEESC | Enforce HARD SIGNAL RCD |
| |1 | | TCTECON | Contention logical unit |
| (1FB) | BITSTRING | 1 | TCTESD5 | Byte Storage Allocation |
| | 1... .. | | TCTERIB | RESET state is INB |
| | .1. | | TCTEPSS | PRIMARY SEND state at session initiation |
| | .1. | | TCTEL06 | NULL RU = LUSTAT 0006 |
| | ...1 | | TCTESQI | QRI supported |
| | 1.. | | TCTEL07 | LUSTAT 0007 not THR ZNAC |
| |1. | | * | |
| |11 | | TCTESTL | SECONDARY RECEIVE STACK where B'00' = 1-Level where B'01' = 2-Level where B'10' is Reserved where B'11' = 3-level |
| (1FC) | BITSTRING | 1 | * | byte storage allocation |
| | 1... .. | | TCTEEBX | EB DEFINITE if OUTSTAND REQ |
| | .1. | | TCTERIR | CICS responsible for reinitiation |
| | .1. | | TCTERIN | CICS may not Reinitiate |
| | ...1 | | TCTESTR | Do not send RTR |
| | 1.. | | TCTERIS | Re-initiate pending |
| |1. | | TCTENBK | Bracket(No) |
| (1FD) | BITSTRING | 1 | TCTELSB | LU-type subsetting flags B * |
| | 1... .. | | TCTELS25 | LU-type subsetting bit 25 |
| | .1. | | TCTELS26 | LU-type subsetting bit 26 |
| | .1. | | TCTELS27 | LU-type subsetting bit 27 |
| | ...1 | | TCTELS28 | LU-type subsetting bit 28 |
| | 1.. | | TCTELS29 | LU-type subsetting bit 29 |
| |1. | | TCTELS30 | LU-type subsetting bit 30 |
| |1. | | TCTELS31 | LU-type subsetting bit 31 |
| |1 | | TCTELS32 | LU-type subsetting bit 32 |
| (1FE) | BITSTRING | 1 | TCTEACT | In transmission |
| (1FF) | BITSTRING | 1 | TCTECLIM | Transmission |
| (200) | ADDRESS | 4 | TCTESPPA | Session pool address |
| (200) | ADDRESS | 4 | TCTETPPA | Terminal pool address |
| VTAM 3270 CONTROL INFORMATION | | | | |
| (204) | BITSTRING | 1 | * | Byte storage allocation |
| | 1... .. | | TCTEEXI | EXCEPTIONAL input received |
| | .1. | | TCTEXIP | EXCEPTIONAL input program in progress |
| | .1. | | TCTEPRP | PRINT command in progress |
| | ...1 | | TCTEINT | INTERVENTION required |
| | 1.. | | TCTERRT | RESTORE read with TEXT |
| |1. | | TCTERRI | RESTORE read indicator |
| |1. | | TCTECPY | PRINTTO=(X,COPY) |
| |1 | | TCTECPA | ALTPRT=(X,COPY) |
| MISCELLANEOUS control information. | | | | |
| (205) | BITSTRING | 1 | * | Handling own errors |
| | 1... .. | | TCTEHOR | BMS input passthrough |
| | .1. | | TCTEWPD | EDS FMH received |
| | .1. | | TCTERED | Awaiting receipt of FMH 12 |
| | ...1 | | TCTEF12 | LOGON with OPNDST active |
| | 1.. | | TCTEDLG | Send buffer is a TIOA |
| |1. | | TCTETIA | BIND received |
| |1. | | TCTEBIR | UNBIND received |
| |1 | | TCTEUBR | |
| Persistent Sessions State machine - see constants for values | | | | |
| (206) | BITSTRING | 1 | TCTE_PRSS | Persistent Sessions State |
| Generic resource flags | | | | |
| (207) | BITSTRING | 1 | TCTE_GR_FLAGS TCTE_GR_LOGGEDON_ BY_MEMBERNAME | Generic Resource flags terminal used member name to log on |
| Correlation ID The correlation ID for non-LUC terminals is as follows The correlation ID for LUC terminals is contained in the LUC extension | | | | |
| (208) | CHARACTER | 8 | TCTECORR | Correlation ID |
| TCTTENNM is used during deletion of an autoinstalled terminal to hold the Terminal Netname. The field is set in DFHBSTZV prior to Freemaining the NIB, and used in DFHBSSUB during Statistics collection. | | | | |
| (208) | CHARACTER | 8 | TCTTENNM | Netname Copy |
| (210) | CHARACTER | 8 | TCTTETIM | STCK logon time |
| (218) | ADDRESS | 4 | TCTEBFLA | VTAM buffer list address |
| (21C) | ADDRESS | 4 | TCTE_PRSS_ CV29_PTR | Last PRSS flows etc |
| (220) | ADDRESS | 4 | TCTELUCX | A(TCTTE LUC Extension) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|----------------------------------|
| (220) | CHARACTER | | TCTEPIPE | PIPELINE overlay |
| (224) | CHARACTER | | TCTESESS | Session overlay |
| VTAM 3270 SYSTEM AREA EXISTS only for VTAM 3270 and 3270 COMPATIBILITY mode | | | | |
| (224) | CHARACTER | 4 | TCTEPTO | PRINTTO name |
| (228) | CHARACTER | 4 | TCTEAPT | ALTPRT name |
| (22C) | ADDRESS | 4 | TCTEFRM | Source-terminal address for copy |
| PRINTER and Alternate Printer Netnames for VTAM 3270 | | | | |
| (230) | CHARACTER | 8 | TCTEPNET | Printer Netname |
| (238) | CHARACTER | 8 | TCTEANET | Alternate Printer Netname |
| Length of ZC Terminals | | | | |
| (240) | CHARACTER | | TCTEGET1 | Length for ZC terminals |
| (240) | CHARACTER | | TCTEGET2 | Length for ZC terminals |

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Declarations for the use of Communications Recovery Services.

These definitions become part of TCTTE Storage.

-

Recovery Manager Connection Storage common to all session types.

-

The following pieces of state are associated with the DFHCRESI service to add and set links as recovery necessary/unnecessary, and are common to MRO and LU6.X access methods.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|----------------------|-----|---------------------------|-------------|
| (0) | STRUCTURE | 10 | DFHCRESI_STATE | |
| - | | | | |
| This is the token returned by ADD_ LINK, and represents &rm.'s link state. It is supplied to &rm. on subsequent calls. | | | | |
| (0) | BITSTRING | 4 | CR_CURRENT_LINK | |
| -- | | | | |
| - | | | | |
| This field is used to keep &rm.'s token for a link which we have deleted but not forgotten (ie. the conversation has gone out of bracket, but the implicit forget flow has not been received yet). | | | | |
| In addition to this field, there is a flag to indicate that we have set FORGET(NO) in response to PERFORM_ COMMIT, and are therefore obliged to inform &rm. that he can forget the link status on the next inbound flow (or that he must remember the link status if the session is lost). | | | | |
| (4) | BITSTRING | 4 | CR_PENDING_LINK | |
| (8) | 1... .. .111 1111 | | CR_FORGET_NEEDED * | |
| -- | | | | |
| - | | | | |
| The PENDING mechanism for adding/setting links is managed by a new piece of state, CR_PEND_ RECOVERY_ STATUS, associated with the session. | | | | |
| (9) | UNSIGNED | 1 | CR_PEND_ RECOVERY_ STATUS | |

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 -

The Logname is required whenever a session is registered with RM via the ADD LINK function.

Initialised by Exchange lognames before use.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| (0) | STRUCTURE | 9 | RMC_COMMON_LOGNAME | |
| (0) | CHARACTER | 9 | CR_LOGNAME | |
| (0) | UNSIGNED | 1 | CR_LOGNAME_LEN | |
| (1) | CHARACTER | 8 | CR_LOGNAME_DATA | |

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 -

State remembered between back-to-front calls.

Owned by Unit of work processors.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------------------------|
| (0) | STRUCTURE | 1 | REMEMBERED_STATE | |
| | 1... .. | | CR_2PC_SESS_FAIL | sess fail sending Prepare\|SPR |
| | .1.. .. | | CR_SHUNT_RECEIVED | |
| | ..1. | | CR_ABORT_RECEIVED | |
| | ...1 | | CR_ABORT_FORBIDDEN | |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-------------------------|-----|-------------------------|-------------------------------|
| (0) | STRUCTURE | 20 | RMC_COMMON | |
| (0) | STRUCTURE | 10 | * | |
| | IsA(DFHCRESL_STATE) | | | |
| (0) | BITSTRING | 4 | CR_CURRENT_LINK | |
| (4) | BITSTRING | 4 | CR_PENDING_LINK | |
| (8) | 1... .. | | CR_FORGET_NEEDED | |
| | .111 1111 | | * | |
| (9) | UNSIGNED | 1 | CR_PEND_RECOVERY_STATUS | |
| (A) | STRUCTURE | 9 | * | |
| | IsA(RMC_COMMON_LOGNAME) | | | |
| (A) | CHARACTER | 9 | CR_LOGNAME | |
| (A) | UNSIGNED | 1 | CR_LOGNAME_LEN | |
| (B) | CHARACTER | 8 | CR_LOGNAME_DATA | |
| (13) | STRUCTURE | 1 | * | |
| | IsA(REMEMBERED_STATE) | | | |
| | 1... .. | | CR_2PC_SESS_FAIL | sess fail sending Prepare SPR |
| | .1.. .. | | CR_SHUNT_RECEIVED | |
| | ..1. | | CR_ABORT_RECEIVED | |
| | ...1 | | CR_ABORT_FORBIDDEN | |

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 -

IRC (talking to old systems, using sequence number recovery) and LU6.1.

-

Jointly owned by LU6.1 and IRC sequence number logic code.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|---|
| (0) | STRUCTURE | 9 | SEQUENCE_NUMBERS | |
| (0) | CHARACTER | 8 | CR_SEQ_NOS | |
| (0) | CHARACTER | 4 | CR_BACKOUT_SEQ_NOS | |
| (0) | HALFWORD | 2 | CR_BACKOUT_SEQ_INPUT | |
| (2) | HALFWORD | 2 | CR_BACKOUT_SEQ_OUTPUT | |
| (4) | CHARACTER | 4 | CR_COMMIT_SEQ_NOS | |
| (4) | HALFWORD | 2 | CR_COMMIT_SEQ_INPUT | |
| (6) | HALFWORD | 2 | CR_COMMIT_SEQ_OUTPUT | |
| (8) | 11.. | | CR_UOW_DISPOSITION | NOTE - MUST be 1st 2 bits of byte for ASM |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------|-----|-----------------------|---|
| (0) | STRUCTURE | 9 | RMC_SHARED_IRC61 | |
| (0) | STRUCTURE | 9 | * | |
| | IsA(SEQUENCE_NUMBERS) | | | |
| (0) | CHARACTER | 8 | CR_SEQ_NOS | |
| (0) | CHARACTER | 4 | CR_BACKOUT_SEQ_NOS | |
| (0) | HALFWORD | 2 | CR_BACKOUT_SEQ_INPUT | |
| (2) | HALFWORD | 2 | CR_BACKOUT_SEQ_OUTPUT | |
| (4) | CHARACTER | 4 | CR_COMMIT_SEQ_NOS | |
| (4) | HALFWORD | 2 | CR_COMMIT_SEQ_INPUT | |
| (6) | HALFWORD | 2 | CR_COMMIT_SEQ_OUTPUT | |
| (8) | 11.. | | CR_UOW_DISPOSITION | NOTE - MUST be 1st 2 bits of byte for ASM |

--
 -
 LU6.2 and IRC using RM services for recovery.
 -
 Owned by Exchange lognames process.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 1 | RECOVERY_PROTOCOL | |
| | 1... | | CR_PROTOCOL | |

--
 -
 IRC partner may be 5.1 or pre-5.1. If the latter, then resync has to be performed using sequence numbers. If the former, resync is enhanced to use the same algorithms as LU6.2.
 Owned by IRC bind logic.
 LU6.2 partner may be 5.1 or pre-5.1. If the latter then the new protocols are not supported.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|------------------------------|
| (0) | STRUCTURE | 1 | RESYNC_TYPE | |
| | 11.. | | CR_RESYNC_TYPE | What resync type is partner? |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------------------|-----|------------------|------------------------------|
| (0) | STRUCTURE | 2 | RMC_SHARED_IRC62 | |
| (0) | STRUCTURE | 1 | * | |
| | IsA(RESYNC_TYPE) | | | |
| | 11.. | | CR_RESYNC_TYPE | What resync type is partner? |
| (1) | STRUCTURE | 1 | * | |
| | IsA(RECOVERY_PROTOCOL) | | | |
| | 1... | | CR_PROTOCOL | |

--
 -
 LU6.1 and LU6.2 - no shared state. This type is not used, but is here for the sake of completeness.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | | RMC_SHARED_LU6162 | |
| (0) | BITSTRING | | * | |

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 -
 IRC specific fields
 -
 MRO bind process. Conversation position and logging.
 Owned by IRC bind logic.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|--|
| (0) | STRUCTURE | 1 | IRC_BIND_STATE | |
| | 111. | | CR_BIND_LEG_NUM | Which conversation leg is it? NOTE- leg num must be first 3 bits of byte |
| | ...1 | | CR_BIND_LOGGING | Is bind logging done yet? |

--
 -
 This field is used to hold the conversation correlator temporarily. The conversation correlator is received on an FMH5 and is logged by RM for use by RMC during resync. It is presented to RM as an Add_link in DFHZSUP, but is extracted from the FMH5 along with the UOW in DFHZATT. This field is used to transfer the value between the two modules.
 NOTE: For LU6.2 a field exists in the LUC extension.
 Owned by resync processing

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-------------|
| (0) | STRUCTURE | 5 | IRC_CONV_CORRELATOR | |
| (0) | UNSIGNED | 1 | CR_CONV_CORRELATOR_LEN | |
| (1) | CHARACTER | 4 | CR_CONV_CORRELATOR | |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|--------------------------|-----|------------------------|--|
| (0) | STRUCTURE | 6 | RMC_IRC_SPECIFIC | |
| (0) | STRUCTURE | 1 | * | |
| | IsA(IRC_BIND_STATE) | | | |
| | 111. | | CR_BIND_LEG_NUM | Which conversation leg is it? NOTE- leg num must be first 3 bits of byte |
| | ...1 | | CR_BIND_LOGGING | Is bind logging done yet? |
| (1) | STRUCTURE | 5 | * | |
| | IsA(IRC_CONV_CORRELATOR) | | | |
| (1) | UNSIGNED | 1 | CR_CONV_CORRELATOR_LEN | |
| (2) | CHARACTER | 4 | CR_CONV_CORRELATOR | |

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 -

Reliability of partner - indicated on inbound request commit for Presumed Abort partners.

CICS ALWAYS VOTES RELIABLE.

Owned by Unit of work processors.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|----------------------------|
| (0) | STRUCTURE | 1 | PA_RELIABILITY | |
| | 1... | | CR_RELIABILITY_VOTE | Determined by inbound. rqc |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------------------|-----|---------------------|----------------------------|
| (0) | STRUCTURE | 1 | RMC_LU62_SPECIFIC | |
| (0) | STRUCTURE | 1 | * | |
| | IsA(PA_RELIABILITY) | | | |
| | 1... | | CR_RELIABILITY_VOTE | Determined by inbound. rqc |

-

The LU6.1 Specific state comprises state which is relevant to Syncpoint, and state which is relevant to Resync.

-

Owned by Lu6.1 Syncpoint process. This state indicates that the current inbound flow contains a PREPARE or SPR flow. It is reset as soon as the information has been imparted to Recovery Manager.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | 1 | LU61_SYNCPOINT_CONTROL | |
| | 1... | | CR_LU61_INBOUND_PREPARE | |
| | .1.. | | CR_LU61_INBOUND_SPR | |

--
 -

Owned by Lu6.1 Resync process.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------|-----|----------------------|-------------|
| (0) | STRUCTURE | 1 | LU61_RESYNC_CONTROL | |
| | 1... .. | | CR_LU61_ | |
| | | | RESYNC_REQUIRED | |
| | .1.. .. | | CR_LU61_PARTNER_COLD | |
| | ..1. | | CR_LU61_RESYNC_DONE | |
| | ...1 | | CR_LU61_SECOND_ | |
| | | | STSN_EXPECTED | |

--

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------------|-----|---------------------|-------------|
| (0) | STRUCTURE | 2 | RMC_LU61_SPECIFIC | |
| (0) | STRUCTURE | 1 | * | |
| | IsA(LU61_SYNCPOINT_CONTROL) | | | |
| | 1... .. | | CR_LU61_ | |
| | | | INBOUND_PREPARE | |
| | .1.. .. | | CR_LU61_INBOUND_SPR | |
| (1) | STRUCTURE | 1 | * | |
| | IsA(LU61_RESYNC_CONTROL) | | | |
| | 1... .. | | CR_LU61_ | |
| | | | RESYNC_REQUIRED | |
| | .1.. .. | | CR_LU61_ | |
| | | | PARTNER_COLD | |
| | ..1. | | CR_LU61_RESYNC_DONE | |
| | ...1 | | CR_LU61_SECOND_ | |
| | | | STSN_EXPECTED | |

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 -

Session types are constructed from the components, and collected together based on access method to produce three types. The aggregate types is based on an area reserved for it in the TCTTE.

The storage is composed of three physical parts, defined to allow sharing of state between PLX and Assembler modules in existing code.

- Access method independent
- Used by combinations, but not all access methods, eg IRC and LU6.2. There are theoretically three subsections, but LU6.2 and LU6.1 have nothing in common.
- Used by One access method only; one of three methods. This last part is an overlay based on the end of the preceding sections.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------|-----|--------------------|-------------------------------|
| (0) | STRUCTURE | 31 | RMC_SHARED | |
| (0) | STRUCTURE | 20 | * | |
| | IsA(RMC_COMMON) | | | |
| (0) | CHARACTER | 10 | * | |
| (0) | BITSTRING | 4 | CR_CURRENT_LINK | |
| (4) | BITSTRING | 4 | CR_PENDING_LINK | |
| (8) | 1... .. | | CR_FORGET_NEEDED | |
| | .111 1111 | | * | |
| (9) | UNSIGNED | 1 | CR_PEND_ | |
| | | | RECOVERY_STATUS | |
| (A) | CHARACTER | 9 | * | |
| (A) | CHARACTER | 9 | CR_LOGNAME | |
| (A) | UNSIGNED | 1 | CR_LOGNAME_LEN | |
| (B) | CHARACTER | 8 | CR_LOGNAME_DATA | |
| (13) | CHARACTER | 1 | * | |
| | 1... .. | | CR_2PC_SESS_FAIL | sess fail sending Prepare\|SPR |
| | .1.. .. | | CR_SHUNT_RECEIVED | |
| | ..1. | | CR_ABORT_RECEIVED | |
| | ...1 | | CR_ABORT_FORBIDDEN | |
| (14) | STRUCTURE | 9 | * | |
| | IsA(RMC_SHARED_IRC61) | | | |
| (14) | CHARACTER | 9 | * | |
| (14) | CHARACTER | 8 | CR_SEQ_NOS | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------|-----|---------------------------|---|
| (14) | CHARACTER | 4 | CR_BACKOUT_ SEQ_NOS | |
| (14) | HALFWORD | 2 | CR_BACKOUT_ SEQ_INPUT | |
| (16) | HALFWORD | 2 | CR_BACKOUT_ SEQ_OUTPUT | |
| (18) | CHARACTER | 4 | CR_COMMIT_SEQ_NOS | |
| (18) | HALFWORD | 2 | CR_COMMIT_ SEQ_INPUT | |
| (1A) | HALFWORD | 2 | CR_COMMIT_ SEQ_OUTPUT | |
| (1C) | 11.. | | CR_UOW_ DISPOSITION | NOTE - MUST be 1st 2 bits of byte for ASM |
| (1D) | STRUCTURE | 2 | * | |
| | IsA(RMC_SHARED_IRC62) | | | |
| (1D) | CHARACTER | 1 | * | |
| | 11.. | | CR_RESYNC_TYPE | What resync type is partner? |
| (1E) | CHARACTER | 1 | * | |
| | 1... | | CR_PROTOCOL | |

Overlay part of the TCTTE with the three session types.
NB. This code is shared assembler code and matches
corresponding assembler DSECTS.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------|-----|-----------------------------|---|
| (138) | STRUCTURE | 31 | CR_COMMON | |
| (138) | STRUCTURE | 31 | * | |
| | IsA(RMC_SHARED) | | | |
| (138) | CHARACTER | 20 | * | |
| (138) | CHARACTER | 10 | * | |
| (138) | BITSTRING | 4 | CR_CURRENT_LINK | |
| (13C) | BITSTRING | 4 | CR_PENDING_LINK | |
| (140) | 1... | | CR_FORGET_NEEDED | |
| | .111 1111 | | * | |
| (141) | UNSIGNED | 1 | CR_PEND_ RECOVERY_STATUS | |
| (142) | CHARACTER | 9 | * | |
| (142) | CHARACTER | 9 | CR_LOGNAME | |
| (142) | UNSIGNED | 1 | CR_LOGNAME_LEN | |
| (143) | CHARACTER | 8 | CR_LOGNAME_DATA | |
| (14B) | CHARACTER | 1 | * | |
| | 1... | | CR_2PC_SESS_FAIL | sess fail sending Prepare\|SPR |
| | .1.. | | CR_SHUNT_RECEIVED | |
| | ..1. | | CR_ABORT_RECEIVED | |
| | ...1 | | CR_ABORT_ FORBIDDEN | |
| (14C) | CHARACTER | 9 | * | |
| (14C) | CHARACTER | 9 | * | |
| (14C) | CHARACTER | 8 | CR_SEQ_NOS | |
| (14C) | CHARACTER | 4 | CR_BACKOUT_ SEQ_NOS | |
| (14C) | HALFWORD | 2 | CR_BACKOUT_ SEQ_INPUT | |
| (14E) | HALFWORD | 2 | CR_BACKOUT_ SEQ_OUTPUT | |
| (150) | CHARACTER | 4 | CR_COMMIT_ SEQ_NOS | |
| (150) | HALFWORD | 2 | CR_COMMIT_ SEQ_INPUT | |
| (152) | HALFWORD | 2 | CR_COMMIT_ SEQ_OUTPUT | |
| (154) | 11.. | | CR_UOW_ DISPOSITION | NOTE - MUST be 1st 2 bits of byte for ASM |
| (155) | CHARACTER | 2 | * | |
| (155) | CHARACTER | 1 | * | |
| | 11.. | | CR_RESYNC_TYPE | What resync type is partner? |
| (156) | CHARACTER | 1 | * | |
| | 1... | | CR_PROTOCOL | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------------------|-----|---------------------|----------------------------|
| (158) | STRUCTURE | 1 | CR_LU62 | |
| (158) | STRUCTURE | 1 | * | |
| | IsA(RMC_LU62_SPECIFIC) | | | |
| (158) | CHARACTER | 1 | * | |
| | 1... | | CR_RELIABILITY_VOTE | Determined by inbound. rqc |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------------------------|-----|-----------------|-------------|
| (158) | STRUCTURE | 2 | CR_LU61 | |
| (158) | STRUCTURE | 2 | * | |
| | ISA(RMC_LU61_SPECIFIC) | | | |
| (158) | CHARACTER | 1 | * | |
| | 1... .. | | CR_LU61_ | |
| | | | INBOUND_PREPARE | |
| | .1.. .. | | CR_LU61_ | |
| | | | INBOUND_SPR | |
| (159) | CHARACTER | 1 | * | |
| | 1... .. | | CR_LU61_ | |
| | | | RESYNC_REQUIRED | |
| | .1.. .. | | CR_LU61_ | |
| | | | PARTNER_COLD | |
| | ..1. | | CR_LU61_ | |
| | | | RESYNC_DONE | |
| | ...1 | | CR_LU61_SECOND_ | |
| | | | STSN_EXPECTED | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------------------|-----|-----------------|---|
| (158) | STRUCTURE | 6 | CR_IRC | |
| (158) | STRUCTURE | 6 | * | |
| | ISA(RMC_IRC_SPECIFIC) | | | |
| (158) | CHARACTER | 1 | * | |
| | 111. | | CR_BIND_LEG_NUM | |
| | ...1 | | CR_BIND_LOGGING | Which conversation leg is it? NOTE- leg num must be first 3 bits of byte Is bind logging done yet? |
| (159) | CHARACTER | 5 | * | |
| (159) | UNSIGNED | 1 | CR_CONV_ | |
| | | | CORRELATOR_LEN | |
| (15A) | CHARACTER | 4 | CR_CONV_ | |
| | | | CORRELATOR | |

PIPELINE POOL ENTRIES (TCTEPTI) OVERLAY

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (220) | STRUCTURE | 12 | * | Pipeline specific data |
| (220) | ADDRESS | 4 | TCTEPLCH | Pipeline pool chain if leader * and 3650 pipeline Session |
| (224) | CHARACTER | 8 | TCTEGET9 | Length of pipeline term |
| (224) | CHARACTER | 8 | TCTEPLID | Poolid if pool-entry leader * |
| (224) | ADDRESS | 4 | TCTEPLLP | -> Pool-entry leader |
| (228) | FULLWORD | 4 | TCTEPLI | pool entry id for catalog |
| (22C) | CHARACTER | 8 | TCTEGET8 | L(pipeline pool chain) |
| (22C) | CHARACTER | 8 | TCTEGET7 | Length for pipeline pool |

Session Overlay Area (non-pipeline)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (224) | STRUCTURE | 4 | * | session data |
| (224) | ADDRESS | 4 | TCTEPREV | Previous TCTTE |
| (228) | CHARACTER | 8 | TCTEGET3 | Length for LUC Session |

IRC Overlay area

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (170) | STRUCTURE | 110 | * | OVERLAY access method-specific IRC Overlay area |
| (170) | CHARACTER | 3 | TCTESRHI | INBOUND request header |
| (170) | CHARACTER | 1 | TCTESRI1 | 1st byte |
| | 1... .. | | TCTESRSP | =1 for RESPONSE =0 for REQUEST |
| | .1.. .. | | TCTESDFC | =1 for data flow control header |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | TCTESFI | Format IND. =1 if FMH present |
| |1.. | | TCTESSDI | =1 when sense data present |
| (171) | CHARACTER | 1 | TCTESRI2 | 2nd byte |
| | 1... .. | | TCTESDR1 | DEFINITE response 1 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------------------------|---|
| | .1.. | | * | |
| | .1. | | TCTESDR2 | DEFINITE response 2 |
| | ...1 | | TCTESERI | EXCEPTION response |
| | ...1 | | TCTESRTI | 0= for +VE response,1= for -VE |
| (172) | CHARACTER | 1 | TCTESRI3 | M-M BRACKET byte |
| | 1... | | TCTESBBI | BEGIN BRACKET indicator |
| | .1. | | TCTESEBI | END BRACKET indicator |
| | ...1 | | TCTESCDI | CHANGE DIRECTION indicator |
| (173) | CHARACTER | 3 | TCTESRHO | OUTBOUND request header |
| (173) | CHARACTER | 1 | TCTESRO1 | 1st byte. Bits as TCTESR11 |
| (174) | CHARACTER | 1 | TCTESRO2 | 2ND byte. Bits as TCTESR12 |
| (175) | CHARACTER | 1 | TCTESRO3 | 3RD byte. Bits as TCTESR13 |
| (176) | HALFWORD | 2 | * | Reserved |
| (178) | BITSTRING | 1 | TCTESRQ | IRC request flags |
| | 1... | | TCTESQWR | WRITE request |
| | .1.. | | TCTESQSY | WAIT request |
| | ..1. | | TCTESQRD | READ request |
| | ...1 | | * | |
| | 1... | | * | |
| |1.. | | TCTESQSG | Segmented data |
| |1. | | TCTESQAT | ATTACH |
| |1 | | TCTESQWP | WRITE pending |
| (179) | BITSTRING | 1 | * | Misc. IRC flags |
| | 1... | | TCTE_USE_MRO_BITMAP | |
| (17A) | BITSTRING | 1 | TCTESBRS | Session name in BITMAP |
| (17B) | BITSTRING | 1 | * | BRACKET status byte |
| (17C) | CHARACTER | 4 | TCTE_SERVICE_REPORTING_CLASS | Reserved |
| | | | | Workload manager monitoring field |
| (180) | FULLWORD | 4 | TCTETHNO | THREAD NO. for IRC SVC |
| (184) | FULLWORD | 4 | TCTETHID | THREAD ID for IRC SVC |
| (188) | ADDRESS | 4 | TCTESCCB | Address of SCCB for THREAD |
| (18C) | CHARACTER | 4 | TCTEIRDA | data for switch |
| (18C) | ADDRESS | 4 | TCTEIRRA | Address of RH |
| (190) | FULLWORD | 4 | TCTEIRRL | Length of RH |
| (194) | ADDRESS | 4 | TCTEIRTA | Address of LU6.2 FMH |
| (198) | FULLWORD | 4 | TCTEIRTL | Length of LU6.2 FMH |
| (19C) | ADDRESS | 4 | TCTEIRFA | Address of FMH |
| (1A0) | FULLWORD | 4 | TCTEIRFL | Length of FMH |
| (1A4) | FULLWORD | 4 | TCTEIRTT | OTHER-system LEVEL-indicator * |
| (1A8) | CHARACTER | 4 | TCTEIRFS | Flags bytes |
| (1A8) | BITSTRING | 1 | TCTEIRF1 | Flag byte one |
| | 1... | | TCTEIRGI | GET DATA ALREADY issued |
| | .1. | | TCTEIRSR | SESSION RECOVERY performed |
| | ..1. | | TCTEIRWL | Have issued write last |
| | ...1 | | TCTEIRJL | JUST allocated |
| | 1... | | TCTEIRCO | Control on other side |
| |1.. | | TCTEIRDP | Data to be processed |
| |1. | | TCTEIRUT | Tell IOR to use TIOA |
| |1 | | TCTEIRAO | AVAIL outstanding |
| (1A9) | BITSTRING | 1 | TCTEIRF2 | Flag byte two |
| | 1... | | TCTEIRCD | CD on this side |
| | .1. | | TCTEIRXM | CROSS-MEMORY in use |
| | ..1. | | TCTEIRAA | CRNP ATTACH SEC check failed * |
| | ...1 | | TCTEIRDL | WRITE LAST issued but EB deferred * |
| | 1... | | TCTERRSS | Transactional EXCI suppt |
| (1AA) | CHARACTER | 2 | * | Reserved |
| (1AC) | ADDRESS | 4 | TCTEURAD | MVS UR address |
| (1B0) | BITSTRING | 1 | TCTEIRST | BIN status |
| | 1... | | * | Reserved |
| | .1. | | TCTEIRBN | EXCI session |
| | ..1. | | * | RESERVED for TRANS. EXCI |
| | ...1 | | TCTE_UR_INIT_NEEDED | |
| | 1... | | TCTE_UR_BIND_NEEDED | UR client INIT needed |
| (1B1) | CHARACTER | | TCTEGET4 | UR client BIND needed Length for IRC Conv. |
| LUWID, in the FORM of LL00ID (for possible WTO) | | | | |
| (1B1) | CHARACTER | 1 | * | Reserved |
| (1B2) | HALFWORD | 2 | TCTESLWN | LTH of LUW ID + 4 |
| (1B4) | HALFWORD | 2 | TCTESL00 | ZEROS |
| (1B6) | CHARACTER | 35 | TCTESLWD | LUWID |
| (1D9) | CHARACTER | 5 | TCTEDLAB | DL/I ABEND code |
| (1DE) | CHARACTER | | TCTEGET5 | Length for IRC Batch |

DESCRIPTIVE NAME = Terminal Control Table System Entry
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE.
 The following fields form part of the Product-Sensitive
 Programming Interface
 TCSACCM TCSELUC TCSESID TCSESKA TCSESUR TCSETYPE

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------------------|---|
| (0) | STRUCTURE | 192 | DFHTCTSE | |
| (0) | CHARACTER | 8 | * | |
| AID CHAIN HEADER FIELDS | | | | |
| (8) | ADDRESS | 4 | TCSEDAID | Pointer to dummy AID |
| <p>The following fields form part of a dummy AID which acts as the anchor for this TCTSE's AID chain. The only fields which actually exist in this dummy AID are the forward and backward chain pointers. The dummy AID forward pointer points to the first AID on the chain. The dummy AID backward pointer points to the last AID on the chain. The first AID's backward pointer points to the dummy AID. The last AID's forward pointer points to the dummy AID. If the chain is empty, the dummy AID forward and backward pointers both point to the dummy AID itself. Field TCSEDAID points to the notional start of the dummy AID.</p> | | | | |
| (C) | ADDRESS | 4 | TCSESUSF | FORWARD AID chain. |
| (10) | ADDRESS | 4 | TCSESUSB | BACKWARDS AID chain |
| END OF AID CHAIN HEADER FIELDS | | | | |
| (14) | CHARACTER | 1 | TCSETYPE | INTERPRETATION of later fields VTAM or M-M LINKS for a region which must be reached via another (IE by DAISY-CHAINING). |
| (15) | CHARACTER | 1 | TCSEILUC | LUC flag byte |
| (15) | BITSTRING | 1 | TCSEFLGS | LUC status |
| | 1... .. | | TCSELUC | This is a LUC system |
| | .1. | | TCSELU6 | This is a LU6 system |
| | ..1. | | TCSEMRO | This is a MRO system |
| | ...1 | | TCSESNG | Feature=SINGLE |
| | 1... | | TCSESHU | SHUTDOWN in progress |
| |1.. | | TCSEXLA | XLNaction parameter. On=Force |
| |1. | | TCSESUR | Surrogate |
| |1 | | TCSECNS | CHANGE_NO_SESS supported |
| (16) | HALFWORD | 2 | TCSELEN | Entry length |
| (18) | CHARACTER | 8 | TCSESID | System NETWORK name |
| (20) | CHARACTER | 8 | TCSEXSNM | External SECURITY name |
| (28) | CHARACTER | 8 | TCSEMM | Shared database conversations * |
| (28) | ADDRESS | 4 | TCSESES1 | LUC only - 1st session |
| (28) | ADDRESS | 4 | TCSEVC1 | VTAM - Primary sessions |
| (2C) | ADDRESS | 4 | TCSEMODE | LUC only - mode ENTRY |
| (2C) | ADDRESS | 4 | TCSEVC2 | VTAM - Secondary sessions |
| Access Method VALUES SAME as for TCTTE field TCTEAMID | | | | |
| (30) | BITSTRING | 1 | TCSACCM | Access Method flags |
| (31) | BITSTRING | 1 | TCSEDSP | DATA-STREAM |
| (32) | BITSTRING | 1 | TCSEDBA | De-blocking algorithm |
| (33) | BITSTRING | 1 | TCSEI_AI | APPC autoinstall flags |
| | 1... .. | | TCSETRAN | Transient system |
| | .1. | | TCSE_CLONE | Cloned system |
| | ..1. | | TCSE_CATLG_NO | AI not catalogued |
| | ...1 | | TCSE_IMPLICIT_DELETE | AI delete |
| | 1... | | TCSE_DELETE_AT_RESTART | AI delete after EMER |
| |1.. | | TCSE_DELETE_SCHEDULED | AI DFHIC CATD sched |
| |1. | | TCSE_DELETE_STARTED | AI DFHZATD started |
| |1 | | TCSE_DELETE_AND_LOGON | AI BIND during delete |
| SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS | | | | |
| (34) | HALFWORD | 2 | TCSEALL | Number of AID'S in CHAIN |
| (36) | HALFWORD | 2 | TCSESALL | Number of non-specific AID |
| (38) | HALFWORD | 2 | TCSEBID | Number of BIDS in progress |
| (3A) | HALFWORD | 2 | TCSE2RY | Secondaries currently used |
| (3C) | UNSIGNED | 2 | TCSERTK | RTT entry number. |
| HIGH WATER MARKS | | | | |
| (3E) | HALFWORD | 2 | TCSESTAM | Maximum number of allocates outstanding |
| (40) | HALFWORD | 2 | TCSE2HWM | Secondaries used |
| (42) | HALFWORD | 2 | TCSEBHWM | Maximum number of BIDS |
| ACCUMULATORS | | | | |
| (44) | FULLWORD | 4 | TCSES2 | ATI'S SAT. by secondaries |
| (48) | FULLWORD | 4 | TCSES1 | ATI'S SAT. by primaries |
| (4C) | FULLWORD | 4 | TCSESBID | Number of BIDS sent |
| ISC LINK STATISTICS | | | | |
| (50) | FULLWORD | 4 | TCSESTAS | Number of allocates for LINK |
| (54) | FULLWORD | 4 | TCSESTAQ | Number of allocates QUEUED |
| (58) | FULLWORD | 4 | TCSESTAF | Allocates failing - LINK SHUT |
| (5C) | FULLWORD | 4 | TCSESTAO | Allocates failing - OTHER |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|---|
| (60) | FULLWORD | 4 | TCSESTFC | Number of FC requests |
| (64) | FULLWORD | 4 | TCSESTIC | Number of IC requests |
| (68) | FULLWORD | 4 | TCSESTTD | Number of TD requests |
| (6C) | FULLWORD | 4 | TCSESTTS | Number of TS requests |
| (70) | FULLWORD | 4 | TCSESTDL | Number of DL/1 requests |
| (74) | FULLWORD | 4 | TCSESTTC | Number of TERM SHR REQS |
| (78) | HALFWORD | 2 | TCSEMXT | Allocate queue time |
| (7A) | HALFWORD | 2 | TCSEQPCT | MAXQTIME queue purge count * |
| (7C) | HALFWORD | 2 | TCSEMQPC | MAXQTIME alloc.s purged |
| (7E) | CHARACTER | 2 | * | Reserved |
| (80) | FULLWORD | 4 | TCSEZQRJ | XZIQUE rejects |
| (84) | HALFWORD | 2 | TCSEZQPU | XZIQUE purge conn count |
| (86) | HALFWORD | 2 | TCSEZQPC | XZIQUE allocs.s purged |
| Generic Resource Flags | | | | |
| (88) | BITSTRING | 1 | TCSEI_GR | Generic Resource Flags |
| | 1... .. | | TCSE_GR | Both sides GR registered |
| | .1. | | TCSE_GRNAME_ CONN | 1 = TCSESID is GR name TCSEX62N memname 0 = TCSESID memname TCSEX62N is GR name |
| | ..1. | | TCSE_USE_ | |
| | | | OUR_MEMBER_NAME | Partner used our member name |
| | ...1 | | TCSE_MSG179_ ISSUED | ZC0179 Msg Issued |
| | 1... | | TCSE_CATLG_DONE | Defined connection with affinity is catalogued |
| |1.. | | TCSE_MSG177_ ISSUED | Msg ZC0177 issued |
| (89) | BITSTRING | 1 | TCSE_MISC | Miscellaneous |
| | 1... .. | | TCSESSRE | Shunt received since restart |
| | .1. | | TCSE_SD_ | |
| | | | HANG_REPORTED | on if ZC2352 written |
| | ..1. | | TCSEUDU | Use default user |
| (8A) | HALFWORD | 2 | TCSE1RY | Primaries currently used |
| (8C) | HALFWORD | 2 | TCSE1HWM | Peak number of Primaries used |
| (8E) | HALFWORD | 2 | TCSEARC8 | Allocates after RC8 XZIQUE |
| (90) | ADDRESS | 4 | TCSENEXT | Address of next TCTSE |
| (94) | CHARACTER | 5 | * | |
| (94) | UNSIGNED | 2 | TCSENQCT | ENQ count for task |
| (96) | CHARACTER | 3 | TCSENQTI | Task id of ENQ holder |
| (99) | BITSTRING | 1 | TCSEDI1 | DYNAMIC INSTALL inds |
| | 1... .. | | TCSEDAP | DYNAMIC ADD pending |
| | .1. | | TCSEDDP | DYNAMIC DELETE pending |
| | ..1. | | TCSEPNAC | Pending AUTOCONNECT |
| | ...1 | | * | Reserved |
| | 1... | | TCSEORIS | Indirect System not ready |
| |1.. | | TCSEPNOS | Pending -INSERVICE |
| |1. | | TCSEPNLG | Pending CREATESESS |
| |1. | | TCSEPNAA | Pending AUTOCONNECT ALL |
| (9A) | CHARACTER | 2 | TCSEINUC | (Packed) Indirect system count |
| (9C) | ADDRESS | 4 | TCSE_REMDEL_ CHAIN | Address next REMDEL system@QWA |
| (9C) | ADDRESS | 4 | TCSESKA | Skeleton address |
| (A0) | UNSIGNED | 2 | TCSESRTK | Saved RTT entry number e.g. for APPC terminals |
| (A2) | BITSTRING | 1 | TCSEDI2 | DYNAMIC INSTALL inds |
| | 1... .. | | TCSEDRDLR | Remote delete required |
| | .1. | | TCSETMC | TMP action taken for TCTS |
| | ..1. | | TCSEMROP | SHIP done to this system |
| | ...1 | | TCSEMROG | We got shipped remotes |
| | 1... | | TCSECRRD | Remote reset done |
| |1.. | | TCSECRRS | DFHCRS running |
| |1. | | TCSEUIP | Ltd. XRF update-in-place |
| |1. | | TCSEACT | Remote APPC defined as ..terminal |
| (A3) | CHARACTER | 1 | TCSEDI3 | |
| | 1... .. | | TCSECSRE | Contact with partner since restart |
| | .1. | | TCSERC8 | RC8 from XZIQUE |
| | ..1. | | TCSEQLIM | Queue limit set? |
| | ...1 | | TCSEQTIM | Max queue time set |
| The following indicate revised rules for LU6.2 Sync-Pointing | | | | |
| Next flag says whether revised rules for Conversation | | | | |
| Correlators and State-after-Rollback are used | | | | |
| | 1... | | TCSEAROI | On = FQCC is supported |
| Off = FQCC is not supported | | | | |
| |1.. | | TCSECRTE | CRTE activity flag |
| |1. | | TCSEPGIP | Purge in progress |
| |1. | | TCSE_SYSTEM_ | |
| | | | SUPPORTS_TIMEOUT | timeout supported@DLA |
| (A4) | HALFWORD | 2 | TCSEALIM | CEDA allocate queue limit |
| (A6) | HALFWORD | 2 | TCSEACNT | Queued Allocates processed |
| (A8) | CHARACTER | 8 | TCSEAQTS | Time alloc Queue began |
| (B0) | CHARACTER | 4 | TCSETAQ | Number of allocates queued |
| (B4) | CHARACTER | 4 | TCSEALRJ | QLIMIT alloc.s rejected |
| (B8) | FULLWORD | 4 | TCSESTPC | Number of PC requests |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|-----------------------|
| (BC) | CHARACTER | 2 | TCSE_SUPPORTS_FUNCTION | Function string |
| (BC) | BITSTRING | 1 | TCSE_SUPPORTS_FLG1 | Flag1 |
| | 1... .. | | TCSE_ROUTABLE_START | Routable START |
| (BD) | BITSTRING | 1 | TCSE_SUPPORTS_FLG2 | Flag2 |
| (BE) | CHARACTER | 2 | TCSE_RESERVED | Reserved |
| (C0) | CHARACTER | | TCSECOMN | End of common part |
| (C0) | CHARACTER | | TCSEGET1 | Length for ZC Install |

SYSTEM ENTRY - LU 6.1 and LU6.2

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| (C0) | STRUCTURE | 76 | * | |
| (C0) | CHARACTER | 8 | TCSE_NETID | Network identifier |
| (C8) | CHARACTER | 8 | TCSEX62N | XRF specific name or |
| (C8) | CHARACTER | 8 | TCSEX61N | GR name or member name |
| (D0) | CHARACTER | | TCSEGET6 | Length of LU6.1 system entry |
| (D0) | BITSTRING | 1 | * | |
| | 1... .. | | TCSEPSF | PSH flag bytes supported |
| | .1.. .. | | TCSEWRS | No sessions bound. Scan for resync at next contact * |
| | .1. | | TCSEXLD | EXCHANGE LOGNAME done |
| | ...1 .. | | TCSEPR | Presumed Abort support |
| | ... 1.. | | TCSE_LR | Limited Resource |
| |1.. | | TCSEANB | ACQ but No Bound sessions |
| |1. | | TCSE_PRSS_RECOV | Per. Sess. Recovery rqd |
| |1 | | TCSE_XLN_COLD | Hot/Cold XLN failure |
| (D1) | CHARACTER | 1 | * | Reserved |
| (D2) | BITSTRING | 1 | * | LU6.2 Security flag |
| | 1... .. | | TCSEPNAR | Partner SPM not active |
| | .1. | | TCSE_PRSS_REC_ACT | Track pers. resources |
| | ..1. | | TCSE_PRSS_REL_CONN | |
| | ...1 .. | | TCSE_CLPEND | Release connection |
| | 1.. | | TCSEFBN | XLNaction race control |
| |1.. | | TCSEBTCH | Sessions already bound |
| |1. | | TCSEBTCH | Batched Resync support |
| |1. | | TCSECAL | CONNECT=ALL |
| |1 | | TCSEBSY | BINDSECURITY keyword used |

LU 6.2 Security bits indicating what ATTACH_SECURITY we support and the partner supports. The mapping from the ATTACH_SEC keyword on the CEDA DEFINE CONNECTION or TERMINAL panel is:

```

: XMP
ATTACH_SEC | Bind Indicators
  | UP | AV | PV |
LOCAL | 0 | 0 | 0 |
VERIFY | 1 | 0 | 0 |
IDENTIFY | 1 | 1 | 0 |
PERSISTENT | 1 | 0 | 1 |
MIXED | 1 | 1 | 1 |

```

: EXMP

| | | | | |
|------|------------|---|-----------------|----------------------|
| (D3) | BITSTRING | 1 | TCSE_ATTACH_SEC | LU6.2 Security Flags |
| | 1... .. | | TCSE_MY_UP | Local UP setting |
| | .1. | | TCSE_MY_AV | Local AV setting |
| | ..1. | | TCSE_MY_PV | Local PV setting |
| | ...1 .. | | TCSE_HIS_UP | Remote UP setting |
| | 1.. | | TCSE_HIS_AV | Remote AV setting |
| |1.. | | TCSE_HIS_PV | Remote PV setting |
| |11 | | * | Reserved |

The Userid Table area TCSEUTA is an internal control block within the TCSE. It contains a pointer to the Local Userid Table (LUIT) associated with the connection, the 4 character SYSID and some flags defining the state of the LUIT.

| | | | | |
|------|-----------|----|----------|---|
| (D4) | CHARACTER | 12 | TCSEUTA | Userid Table Area |
| (D4) | ADDRESS | 4 | TCSELUIT | Ptr to Local Userid Table.Copy of LOCAL_USERID_TABLE_AREA |
| (D8) | CHARACTER | 4 | TCSESYSI | SYSID |
| (DC) | BITSTRING | 1 | TCSEFLG | LUIT Global Flags |
| | 1... .. | | TCSETOIP | Time Out In Progress flag |
| | .111 1111 | | * | Reserved |
| (DD) | CHARACTER | 3 | * | Reserved for ZCUT |

OTHER TCSE FIELDS.....

| | | | | |
|------|-----------|---|-------------------|---------------------------|
| (E0) | BITSTRING | 1 | TCSE_PRSS_FLAGS | Persistent Sessions flags |
| | 1... .. | | TCSE_REL_REQD | Connection in shutdown |
| | .1. | | TCSE_PRSS_PS_REQD | State record not found |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---------------------------------------|
| | ..1. | | TCSE_LR_CATLGED | LR bit set in global cat |
| | ...1 | | TCSE_PRSS_OPNDST_ | |
| | 1... | | RESTORE_FAILED | |
| | | | TCSE_PRSS_ | |
| | | | WAS_SHUTTING | |
| |111 | | * | Unbind all |
| (E1) | BITSTRING | 1 | TCSE_CBD_SECURITY | Reserved |
| | 1... | | TCSE_MY_CBDSEC | CBD security flags |
| | .1.. | | TCSE_MY_ | CBD security selected |
| | | | CBDSEC_REQD | |
| | ..1. | | TCSE_EXTENDEONLY | 0=ACC or 1=REQ prtcol |
| | ...1 | | * | Reject Local sec. atch |
| | 1... | | TCSE_HIS_CBDSEC | Reserved |
| |1.. | | TCSE_HIS_ | Partners CBD security |
| | | | CBDSEC_REQD | |
| |1. | | TCSE_EXT_SEC_FBN | ACC/REQ protocol |
| |1 | | TCSE_HIS_EXT_SEC | ext sec. frst BND occrd |
| (E2) | CHARACTER | 2 | * | ext security indicated |
| (E4) | UNSIGNED | 4 | TCSE_PRA | Reserved for alignment |
| (E8) | CHARACTER | 8 | TCSE_AI_CREATE_TIME | Persistent Resource count |
| (F0) | ADDRESS | 4 | TCSE_DISTINGUISHED_ | Autoinstall GMT time |
| | | | NAME_PTR | |
| (F4) | CHARACTER | 8 | TCSE_TITOKEN | Unique name |
| (FC) | HALFWORD | 2 | TCSE_APPC_CONV | token for remote delete |
| (FE) | BITSTRING | 1 | TCSEI_CC_FLAG | Active conversations |
| | 1... | | TCSECCIN | CICS client flag byte |
| | .111 1111 | | * | CCIN has been run |
| (FF) | CHARACTER | 1 | * | Reserved |
| (100) | ADDRESS | 4 | TCSE_CCINDATA_PTR | Reserved |
| (104) | ADDRESS | 4 | TCSE_LU61_CHAIN | PTR CICS client data |
| (108) | BITSTRING | 1 | TCSE_CQP_FLAGS | Next LU61 system |
| | 1... | | TCSE_CQP_SUPPORTED | Flags for Connection Quiesce protocol |
| | .1.. | | TCSE_ENDAFFIN_REQD | CQP supported |
| | ..1. | | TCSE_CQPI_COMPLETE | CQP requested ENDAFFIN |
| | ...1 | | TCSE_CQPO_ATTACHED | Inbound CQP complete |
| | 1... | | TCSE_CQP_COMPLETE | Outbound CQP attached |
| |1. | | TCSE_CQP_FAILED | CQP has completed |
| |1 | | * | CQP has failed |
| (109) | CHARACTER | 3 | * | reserved |
| (10C) | CHARACTER | | TCSEGET4 | reserved for alignment |
| | | | | Length for ZC Install |

SYSTEM ENTRY - M-M SPECIFIC

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---|
| (C0) | STRUCTURE | 4 | * | |
| (C0) | HALFWORD | 2 | TCSESECN | No of secondaries sessions * |
| (C2) | HALFWORD | 2 | TCSEPRMN | No of primaries sessions |
| (C0) | STRUCTURE | 20 | * | |
| (C0) | CHARACTER | 4 | * | Leave room for previous two * |
| (C4) | ADDRESS | 4 | TCSEIRCH | Chain of IRC system entries * |
| (C4) | ADDRESS | 4 | TCSE_MRO_CHAIN | Alternative name for IRCH |
| (C8) | BITSTRING | 1 | TCSEIRCF | Flags |
| | 1... | | * | Reserved |
| | .1.. | | TCSEIRNC | Not connected |
| | ..1. | | TCSEIRMD | PRI/SEC MISMATCH DIAGNOSED * |
| | ...1 | | TCSEIDEF | Defined to IRC |
| | 1... | | TCSEIRXM | Cross Memory acceptable |
| |1. | | TCSEIRSF | FIRST ATTACH OK |
| |1 | | TCSEINBT | EXCI connection |
| |1 | | TCSEIAID | We need USERSEC=IDENTIFY |
| (C9) | BITSTRING | 1 | TCSEIRF2 | Flags |
| | 1... | | TCSEIRXU | Cross Memory in use |
| | .1.. | | TCSEIRIC | Outbound connects initiated * for this sys since connections last severed |
| | ..1. | | TCSEIRXC | XCF connection |
| | ...1 | | TCSEIRCQ | CONNECT wk el already q'd |
| (CA) | CHARACTER | 8 | TCSESTOD | Latest CONNECT timestamp |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------|
| (D2) | CHARACTER | 2 | * | Reserved |
| (D4) | CHARACTER | | TCSEGET3 | Length for ZC Install |

SYSTEM ENTRY - INDIRECT ROUTE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (C0) | STRUCTURE | 8 | * | |
| (C0) | ADDRESS | 4 | TCSEINDA | Address of another system entry, on route to remote region. |
| (C4) | CHARACTER | 4 | TCSEINDN | Name of other system * |
| (C8) | CHARACTER | | TCSEGET2 | Length for ZC Install |

DESCRIPTIVE NAME = Terminal Control Table Mode Group Entry

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 138 | DFHTCTME | |
| (0) | CHARACTER | 8 | * | |
| (8) | CHARACTER | 8 | TCMEMODE | Mode group name |
| (10) | ADDRESS | 4 | TCMENXT | Address of next mode group in this system |
| (14) | ADDRESS | 4 | TCMESESA | Address of 1st session in this group |
| (18) | ADDRESS | 4 | TCMESYSA | Address of system entry |
| (1C) | HALFWORD | 2 | TCMELEN | Length of this mode entry |

| SYSTEM STATISTICS | | | | |
|-------------------|----------|---|----------|---|
| (1E) | HALFWORD | 2 | TCMELMAX | LOCAL_MAX_ALLOWED |
| (20) | HALFWORD | 2 | TCMEMCON | MINIMUM number of contention WINNERS acceptable for this mode group |
| (22) | HALFWORD | 2 | TCMEMAXS | MAX_SESSION_COUNT |

| CURRENT STATISTICS | | | | |
|--------------------|----------|---|----------|--|
| (24) | HALFWORD | 2 | TCMECONW | Currently CNOS negotiated contention WINNERS |
| (26) | HALFWORD | 2 | TCMECONL | Currently CNOS negotiated contention LOSERS |
| (28) | ADDRESS | 4 | TCMELST | Address of last session in this group |
| (2C) | HALFWORD | 2 | TCMEZQPC | XZIQUE alloc.s purged |
| (2E) | HALFWORD | 2 | TCMEBID | Number of BIDS in progress |
| (30) | HALFWORD | 2 | TCME2RY | LUC contention WINNERS count |
| (32) | HALFWORD | 2 | TCMEBND | Currently bound sessions |
| (34) | HALFWORD | 2 | TCME1RY | Current no of losers in use |

| HIGH WATER MARKS | | | | |
|------------------|----------|---|----------|---|
| (36) | HALFWORD | 2 | TCMESTAM | Maximum number of allocates outstanding |
| (38) | HALFWORD | 2 | TCME2HWM | LUC MAX No. WINNERS |
| (3A) | HALFWORD | 2 | TCMEBHWM | Maximum number of BIDS |
| (3C) | UNSIGNED | 2 | TCMERTK | RTT entry number |
| (3E) | HALFWORD | 2 | TCME1HWM | Peak contention losers |

| ACCUMULATORS | | | | |
|--------------|----------|---|----------|--------------------------|
| (40) | FULLWORD | 4 | TCMES2 | LUC ATI'S SAT by WINNERS |
| (44) | FULLWORD | 4 | TCMES1 | LUC ATI'S SAT by LOSERS |
| (48) | FULLWORD | 4 | TCMESBID | Number of BIDS sent |

| ISC LINK STATISTICS | | | | |
|---------------------|-----------|---|----------|-------------------------------|
| (4C) | FULLWORD | 4 | TCMESTAS | Number of allocates for LINK |
| (50) | FULLWORD | 4 | TCMESTAQ | Number of allocates QUEUED |
| (54) | FULLWORD | 4 | TCMESTAF | Allocates failing - LINK SHUT |
| (58) | FULLWORD | 4 | TCMESTAO | Allocates failing - OTHER |
| (5C) | FULLWORD | 4 | TCMESTAG | Generic allocs satisfied |
| (60) | FULLWORD | 4 | TCMESTAP | Specific allocs satisfied |
| (64) | CHARACTER | 1 | * | Reserved |
| (65) | BITSTRING | 1 | TCMEDII | DYNAMIC INSTALL indicators |
| | | | TCMEDAP | DYNAMIC ADD pending |
| | .1.. | | TCMEDDP | DYNAMIC DELETE pending |
| | ..1. | | TCMEPNAC | Pending AUTOCONNECT |
| | ...1 1... | | * | TCME - Reserved |
| |1.. | | TCMEPNOS | Pending -INSERVICE |
| |1. | | TCMEPNLG | Pending CREATESESS. |
| |1 | | TCMEPNAA | Pending AUTOCONNECT all |
| (66) | BITSTRING | 1 | TCMEDII2 | DYNAMIC INSTALL indicators |
| | 1... | | * | RESERVED |
| | .1. | | TCMEUIP | Update in place |
| | ..11 1111 | | * | RESERVED |
| (67) | CHARACTER | 1 | * | TCME - Reserved |
| (68) | HALFWORD | 2 | TCMEPMAX | Potential LOCAL_MAX_ALLOW |
| (6A) | HALFWORD | 2 | TCMEPMCO | Potential MAX_CON_WINNERS |
| (6C) | ADDRESS | 4 | TCMEDPGR | Address of MACRO version |
| (70) | BITSTRING | 1 | TCMEIFG1 | Flags - 1 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---|
| | 1... .. | | TCMELSM | LU SERVICES MANAGER TCTME |
| | .1.. .. | | * | Reserved |
| | ..1. | | TCMECON | CONNECT=AUTO |
|  | .... .. |  | TCMECNO | initial CNOS sent |
| | 1... | | TCMEBCL | CICS to BIND CON_LOSERS |
| |1.. | | TCMEPCN | Postponed CNOS needed |
|  | .... .. |  | TCMEOUT | Mode group OUT OF SERVICE |
| |1 | | TCMECLO | Mode group TEMP. CLOSED |
| (71) | BITSTRING | 1 | TCMEIFG2 | Flags - 2 |
| | 1... .. | | TCMETRM | Performing TERMINATION |
| | .1.. .. | | TCMEACT | ACTIVATE SCAN flag |
| | ..1. | | TCMESHU | SHUTDOWN in progress |
|  | .... .. |  | TCMEINT | Initial CNOS x'chge done |
| | 1... | | TCMEERR | Permanent Error in mode group |
| |1 | | TCMER12 | RC12 issued by XZIQUE |
| |1 | | TCME_LOCK_DENIED | Busy on CNOS target sys |
| |1 | | TCMEPGIP | Purge in progress |
| (72) | HALFWORD | 2 | TCMEACNT | Queued Allocates processed |
| (74) | HALFWORD | 2 | TCMEAR12 | Allocates after RC12 |
| (76) | HALFWORD | 2 | TCMEQPCT | XZIQUE purge mode count |
| (78) | CHARACTER | 8 | TCMEAQTS | Time alloc Queue began |
| (80) | ADDRESS | 4 | TCME_LOCK_TOKEN | LM token for CNOS lock |
| (84) | HALFWORD | 2 | TCME_ORD_COUNT | Outstanding remote deactivation count |
| (86) | HALFWORD | 2 | TCME_WTL_COUNT | Expected unbinds for Winner-To-Loser switch |
| (88) | HALFWORD | 2 | TCME_LTW_COUNT | Expected unbinds for Loser-To-Winner switch |
| (8A) | CHARACTER | | TCMEGET | Length for ZC Install |

DESCRIPTIVE NAME = TCTTE BMS Extension

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 52 | TCTTETTE | TCTTE BMS Extension |
| (0) | UNSIGNED | 1 | TCTTEELN | Entry length (includes PARTITION Extension for BTAM) |
| (1) | BITSTRING | 1 | * | Reserved |
| (2) | CHARACTER | 3 | TCTTEOCL | Operator class code |
| (5) | BITSTRING | 2 | TCTTETFS | Terminal features |
| (5) | BITSTRING | 1 | TCTTEFMB | BMS flag bytes |
| | 1... .. | | TCTTEOBO | OBOPID specified |
| | .1.. .. | | TCTTETFV | VERTICAL format feature |
| | ..1. | | TCTTETFH | FORM FEED feature |
|  | .... .. |  | TCTTENRA | DON'T route with LIST = ALL |
| | 1... | | TCTTENR | NEVER route to this terminal |
| |1.. | | TCTTEFMP | User FMH PARAMS supported |
| |1 | | TCTTEOBF | OUTBOARD FORMATTING support data |
| |1 | | TCTTETFM | 2780 MULTI-RECORD feature |
| (6) | BITSTRING | 1 | * | |
| | 1... .. | | TCTTELDC | BMS LDC device |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | | | * | |
| | 1... | | * | |
| |1 | | * | |
| |1 | | TCTTETFF | HORIZONTAL format feature |
| (7) | UNSIGNED | 1 | TCTTEPGL | 3270 default PAGE size ROWS * |
| (8) | UNSIGNED | 1 | TCTTEPGC | 3270 default PAGE size COLS * |
| (9) | UNSIGNED | 1 | TCTEAPGL | 3270 alternate PAGE size ROWS * |
| (A) | UNSIGNED | 1 | TCTEAPGC | 3270 alternate PAGE size COLS * |
| (B) | BITSTRING | 1 | TCTTEPGB | Terminal Paging Status |
| | 1... .. | | TCTTEPGP | TRMSTAT=PAGE |
| | .1.. .. | | TCTTEPGR | TRMSTAT TEMP INVERTED |
| | ..1. | | TCTTEPGD | DISPLAY status |
|  | .... .. |  | TCTTEPGI | DISPLAY status task |
| | 1... | | TCTTEPGG | CONVERSATIONAL pages |
| |1.. | | TCTTEPGO | Some MCB has EODPURG=OPER |
| |1 | | TCTTEPG3 | Terminal is 3270 |
| |1 | | TCTTEPGA | PURGE BMS PAGE after ATNI |
| (C) | CHARACTER | 3 | * | Reserved BMS Extension |
| (F) | CHARACTER | 1 | TCTTEDDS | DEVICE DEPENDENCE suffix |
| (10) | CHARACTER | 1 | TCTTEMSS | MAP SET suffix |
| (11) | CHARACTER | 1 | TCTTEAMS | ALTERNATE MAP SET suffix |
| (12) | HALFWORD | 2 | TCTTEBFS | Buffer suffix |
| (14) | ADDRESS | 4 | TCTTEPSA | System SPOOLING EXTN.address * |
| (18) | ADDRESS | 4 | TCTTETPA | (DFHTCTPE) address |
| (1C) | ADDRESS | 4 | TCTTEXHN | -> TCTTE if dynamic entry * |
| (20) | ADDRESS | 4 | TCTTEPGM | Addr of first message CB |
| (24) | CHARACTER | 8 | TCTTEBMN | Name of last mapset |
| (2C) | CHARACTER | 7 | TCTTEMAP | Name of last map |
| (33) | CHARACTER | 1 | * | Reserved |
| (34) | CHARACTER | | TCTTEEXE | End of extension |

DESCRIPTIVE NAME = TCTTE Special Features Extension

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 28 | TCTTEPSE | |
| (0) | UNSIGNED | 1 | TCTTEQLN | Extension length |
| (1) | BITSTRING | 1 | TCTTEQSL | Printer RSL |
| (2) | CHARACTER | 2 | TCTTEQPT | Printer type, X'32XX' |
| (4) | CHARACTER | 8 | TCTTEQST | Spooling target printer |
| (4) | CHARACTER | 8 | TCTTEQSD | Spooling printer dest.ID * |
| (C) | CHARACTER | 4 | TCTTEQF | Spooling forms ID |
| (10) | ADDRESS | 4 | TCTTEQAP | Spooling control block address * |
| (14) | HALFWORD | 2 | TCTTEQLC | Spooling line-up counter |
| (16) | CHARACTER | 1 | TCTTEQCL | Spooling device class |
| (17) | BITSTRING | 1 | * | Spooling flag byte |
| | | | 1... .. | TCTTEQPM |
| (18) | CHARACTER | 4 | * | No printed messages * |
| (1C) | CHARACTER | | TCTTEPXE | Reserved * |
| | | | | End of SYS.SPOOLING EXTN. |

DESCRIPTIVE NAME = TCTTE LUTYPE6.2 Extension

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|--------------------------|
| (0) | STRUCTURE | 236 | TCTTELUC | Start of LUC Extension |
| This area (from TCTE_LUCX_TRACE to TCTE_LUCX_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (0) | CHARACTER | 64 | TCTE_LUCX_TRACE | LUCX trace area |
| (0) | CHARACTER | 1 | * | |
| (0) | UNSIGNED | 1 | TCTTELUL | Length of extension |
| (1) | CHARACTER | 3 | TCTESTAT | LU 6.2 state bytes |
| (1) | BITSTRING | 1 | TCTELUC1 | Flag byte 1 |
| | | | 1... .. | TCTEPLL |
| | | | .1. | TCTECEBS |
| | | | .1. | TCTECEBR |
| | | | ...1 | TCTECCDS |
| | | | 1... | TCTECCDR |
| | | |1. | TCTECCR2 |
| | | |1. | TCTECCR1 |
| | | |1 | TCTESDR |
| (2) | BITSTRING | 1 | TCTELUC2 | Flag Byte 2 |
| | | | 1... .. | TCTEFMS |
| | | | .1. | TCTEFMR |
| | | | .1. | TCTEDEX |
| | | | ...1 | TCTERCR |
| | | | 1... | TCTEBUF |
| | | |1. | TCTERCL |
| | | |1. | TCTELLK |
| | | |1 | TCTEIMP |
| (3) | BITSTRING | 1 | TCTELUC3 | Flag Byte 3 |
| | | | 1... .. | TCTELUN |
| | | | .1. | TCTUAXFI |
| | | | .1. | TCTELIC |
| | | | ...1 | TCTERES |
| | | | 1... | TCTEAHB |
| | | |1. | TCTERQD2 |
| | | |1. | TCTERQD1 |
| | | |1 | TCTERQE |
| (4) | ADDRESS | 4 | * | reserved (was TCTEURDA) |
| (8) | ADDRESS | 4 | * | reserved (was TCTEPURD) |
| (C) | ADDRESS | 4 | * | reserved (was TCTEHURD) |
| (10) | CHARACTER | 1 | TCTESPL | CONV SYNCPOINT level |
| (11) | CHARACTER | 1 | TCTECVT | Conversation type |
| | | | 1... .. | * |
| | | | .1. | * |
| | | | .1. | * |
| | | | ...1 | * |
| | | | 1... | * |
| | | |1. | * |
| | | |1. | * |
| | | |1 | TCTEMAPD |
| (12) | UNSIGNED | 1 | TCTEPLLC | "MAPPED" |
| (13) | UNSIGNED | 1 | TCTECLC | PARTIAL LL count |
| (14) | CHARACTER | 8 | TCTECC | CONV. CORRELATOR length |
| (1C) | ADDRESS | 4 | TCTESBA | Conversation CORRELATOR |
| (20) | FULLWORD | 4 | TCTESBL | SEND buffer address |
| (24) | ADDRESS | 4 | TCTESBDA | SEND buffer length |
| (28) | FULLWORD | 4 | TCTESBDL | next slot in SEND buffer |
| (2C) | ADDRESS | 4 | TCTERBA | DATE length in SEND BFR |
| | | | | RECEIVE buffer address |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------|--|
| (30) | FULLWORD | 4 | TCTERBL | RECEIVE buffer length |
| (34) | ADDRESS | 4 | TCTERDA | Next slot in RECV buffer |
| (38) | FULLWORD | 4 | TCTERBDL | Data length in RECV buffer |
| (3C) | HALFWORD | 2 | TCTELLC | LL count |
| (3E) | HALFWORD | 2 | TCTENLLC | New LL count |
| (3E) | UNSIGNED | 1 | TCTELSEED | Length of RCVD seed |
| (3F) | UNSIGNED | 1 | TCTELENC | Len of RCVD TRANSFRMD PWD |
| TCTE_LUCX_TRACE_LEN End of LUCX trace area | | | | |
| (40) | ADDRESS | 4 | TCTEAPBF | APPL buffer address |
| (44) | FULLWORD | 4 | TCTEAPBL | APPL buffer length |
| (48) | CHARACTER | 8 | TCTERENC | BIND password seed RCVD in bnd |
| (48) | FULLWORD | 4 | TCTEMAXL | User MAX data required |
| (4C) | FULLWORD | 4 | TCTEDATL | Length of data received |
| (50) | ADDRESS | 4 | TCTEFMHA | Address of FMH received |
| (54) | HALFWORD | 2 | TCTELLCT | LL required |
| (56) | BITSTRING | 1 | TCTECUSR | Conversation use flags |
| | 1111 11.. | | * | Reserved |
| |1. | | TCTECPIC | conversation is CPIC |
| |1 | | TCTENCPC | conversation is not CPIC |
| (57) | CHARACTER | 1 | * | Miscellaneous bits |
| | 1... .. | | TCTEIIR | Interested in responses |
| | .1. | | TCTE_PRSS_MATCHED | TCTTE matched to NIB |
| | ..1. | | TCTE_PRSS_REJ_ATTACH | Reject attach flag |
| | ...1 | | TCTE_PRSS_REM_SCHED | Remote schedule flag |
| | 1.. | | TCTENRI | Not Receive Immediate |
| |111 | | * | reserved |
| (58) | ADDRESS | 4 | TCTERCSA | RECEIVE SET address |
| (5C) | ADDRESS | 4 | TCTELHNP | -> TCTTE |
| (60) | CHARACTER | 1 | TCTESIL | SESSION INSTANCE length |
| (61) | CHARACTER | 8 | TCTESII | SESSION INST identifier |
| (69) | CHARACTER | 3 | TCTESECA | Reserved |
| (6C) | ADDRESS | 4 | * | Reserved |
| (70) | CHARACTER | 8 | TCTETPWA | BIND security work area |
| (78) | CHARACTER | 1 | TCTESONC | CLSDST SON code |
| (79) | CHARACTER | 2 | TCTESSNS | System sense code |
| (7B) | CHARACTER | 2 | TCTEUSNS | User sense code |
| (7D) | CHARACTER | 1 | TCTETLD | ETL Deferred Data Flag |
| | 1... .. | | TCTETLDD | ETL is deferring the data |
| | .111 1111 | | * | unused |
| (7E) | HALFWORD | 2 | TCTE_BID_SEQ | Persistent Sessions BB seqno. save area |
| (80) | CHARACTER | 32 | TCTEBLST | Buffer list |
| (A0) | CHARACTER | 8 | TCTEPENC | Primary encrypted seed |
| (A8) | FULLWORD | 4 | TCTEPCLK | Previous TOD clock bits for LU62 bind |
| (AC) | ADDRESS | 4 | TCTERPLB | Second RPL |
| (B0) | FULLWORD | 4 | TCTEMINL | Minimum ll to receive |
| (B4) | BITSTRING | 1 | TCTEVOP3 | Operation in progress |
| | 1... .. | | TCTERIP | Receive in progress |
| (B5) | BITSTRING | 1 | TCTERPBS | LU62 RPL_B state machine |
| (B6) | BITSTRING | 1 | TCTE_BID_STATUS | Persistent Sessions status for LU62 recovery |
| (B7) | BITSTRING | 1 | TCTE_RESP_STATUS | Persistent sessions status@R7C for response recovery |
| (B8) | CHARACTER | 8 | TCTESEED | BIND PASSWORD seed sent in bnd |
| (C0) | CHARACTER | 8 | TCTERSED | BIND PASSWORD seed RCVD in bnd |
| (C8) | ADDRESS | 4 | TCTERERA | LU62 RPL_in_error address |
| (CC) | ADDRESS | 4 | TCTERBLA | Logical LU62 rcv buf addr |
| (D0) | UNSIGNED | 4 | TCTERBLL | Logical LU62 rcv buf len |
| (D4) | ADDRESS | 4 | TCTECPCA | CPC address |
| (D8) | CHARACTER | 4 | TCTERSFR | RELAY SESSION failed reason code |
| (DC) | CHARACTER | 8 | TCTE_MY_ATT_SEQ | Local attach sequence num |
| (E4) | CHARACTER | 8 | TCTE_HIS_ATT_SEQ | Partner attach seq num |
| (EC) | CHARACTER | | TCTTELCE | End of LUC extension |

DESCRIPTIVE NAME = TCTTE NIB Descriptor Extension

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|-------------------------|
| (0) | STRUCTURE | 100 | TCTENIB | Start of NIB DESCRIPTOR |
| This area (from TCTE_NIBD_TRACE to TCTE_NIBD_TRACE_LEN) is traced in some ZC level 1 trace formats | | | | |
| (0) | CHARACTER | 20 | TCTE_NIBD_TRACE | NIBD trace area |
| (0) | CHARACTER | 3 | * | ALIGN length field |
| (3) | UNSIGNED | 1 | TCTENLEX | Length of DESCRIPTOR |
| (4) | ADDRESS | 4 | TCTENPTR | Address of NIB |
| (8) | ADDRESS | 4 | TCTENUSA | User area |
| (C) | CHARACTER | 8 | TCTENNAM | Symbolic node name |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---|
| TCTE_NIBD_TRACE_LEN End of NIBD trace area | | | | |
| (14) | CHARACTER | 8 | TCTENLOG | LOGMODE |
| (1C) | UNSIGNED | 1 | * | Reserved |
| (1D) | UNSIGNED | 1 | TCTENIBN | NIB model INDEX number |
| (1E) | UNSIGNED | 1 | TCTENBDR | BIND routine type number |
| (1F) | UNSIGNED | 1 | TCTENDVP | Device address copied from NIB |
| (20) | ADDRESS | 4 | TCTENBDS | A(SAVED BIND AREA) |
| (24) | FULLWORD | 4 | TCTENBDL | LENGTH OF THE BIND SESSION PARAMETERS SAVED BY SCIP |
| (28) | CHARACTER | 4 | TCTEKSS | Command sense codes |
| (28) | CHARACTER | 1 | TCTEKSS1 | System sense 1 |
| (29) | CHARACTER | 1 | TCTEKSS2 | System sense 2 |
| (2A) | CHARACTER | 1 | TCTEKUS1 | User sense 1 |
| (2B) | CHARACTER | 1 | TCTEKUS2 | User sense 2 |
| (2C) | CHARACTER | 6 | TCTESTNR | Number (STSN) indicators BUILD/RECEIVE area |
| (2C) | CHARACTER | 1 | TCTESTRI | FLOW |
| (2D) | CHARACTER | 1 | TCTESTAC | STSN actions |

The values of the STSN response codes set in the TCTTE must equal the values for the corresponding codes in the VTAM RPL, since the TCTTE fields are set by copying the corresponding field from the RPL.

| | | | | |
|------|-----------|----|-----------|---|
| (2D) | CHARACTER | 1 | TCTESTRP | STSN response byte storage * |
| (2E) | HALFWORD | 2 | TCTESTIB | Number |
| (30) | HALFWORD | 2 | TCTESTOP | Number |
| (32) | HALFWORD | 2 | TCTESQCI | COMPLEMENTARY version of MY INBOUND FLOW'S logical SEQ. number |
| (34) | HALFWORD | 2 | TCTESQCO | COMPLIMENTARY version of MY OUTBOUND FLOW'S logical SEQ. number |
| (36) | HALFWORD | 2 | TCTESQCM | Command sequence number |
| (38) | CHARACTER | 8 | TCTENRBD | ECHOED BYTES of BIND response invalid |
| (40) | BITSTRING | 1 | * | |
| | 1... | | TCTEPSSES | And its value |
| | .1.. | | TCTENBLE | NEG BIND specified |
| | ..1. | | TCTENBLR | NEGOTIABLE response required |
| | ...1 | | TCTETNNB | TRY not NEG BIND |
| | 1... | | * | reserved |
| |1.. | | * | reserved |
| (41) | BITSTRING | 1 | TCTEERP | Error processing REASONCODE |
| (42) | CHARACTER | 16 | TCTESQP | Session QUALIFIER PAIR |
| (42) | CHARACTER | 1 | TCTESQPL | Length of SQP field |
| (43) | BITSTRING | 1 | * | SQP field ID - X'01' |

The format of the SESSION QUALIFIER PAIR IS:
 [L|PSQ|L|SSQ] where L is a one byte length
 The lengths of both TCTEPSQ and TCTESSQ are from 0 to 8,
 therefore the position of TCTESSQL is calculated as the
 Address of TCTEPSQ + the CONTENTS of TCTEPSQL.
 When CICS is the PRIMARY SESSION then the LENGTH
 of the PSQ IS 4, when it is the SECONDARY SESSION then
 the LENGTH of the SSQ is 4 IE. The CICS SESSION NAME
 always has a LENGTH of 4 while the OTHER SESSION NAME
 will have a LENGTH of 0 to 8.

| | | | | |
|------|-----------|---|---------------------|------------------------------------|
| (44) | CHARACTER | 1 | TCTEPSQS | Start of PSQ |
| (52) | BITSTRING | 1 | * | Length of PASSWORD (X'00') |
| (53) | BITSTRING | 1 | * | |
| | 1... | | TCTNNTMC | TMP action taken for TCNT |
| (54) | ADDRESS | 4 | TCTENNCH | -> Next in NETNAME chain |
| (58) | CHARACTER | 8 | TCTE_LOGON_ LOGMODE | LOGMODE name from VTAM LOGON exit. |
| (60) | FULLWORD | 4 | TCTENIBE | End of NIB DESCRIPTOR |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------------|
| (0) | STRUCTURE | * | TCTEPSQR | PSQ record based on TCTEPSQS |
| (0) | BITSTRING | 1 | TCTEPSQL | Length of PSQ |
| (1) | CHARACTER | * | TCTEPSQ | PSQ (Max 8 chars) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | TCTESSQR | SSQ record Based on TCTEPSQ + value of PSQL |
| (0) | BITSTRING | 1 | TCTESSQL | Length of SSQ |
| (1) | CHARACTER | * | TCTESSQ | SSQ (Max 8 chars) |

DESCRIPTIVE NAME = TCTTE Dummy Work Element
This DSECT describes a WORK ELEMENT which is GETMAINED in order to hold information regarding unknown LOGONS.
Because the Error may occur many times before ZNAC can process each WE, the WE'S are CHAINED together off the DUMMY TCTTE(VIA field TCTTECIA).
Each element is used to hold a qualified name identifying the unknown LU(NETNAME.2NDARY_SESSION_QUALIFIER), and other sundry data items.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 40 | TCTEDMWE | Logon work element |
| (0) | ADDRESS | 4 | TCTEDMCH | Chain field to next WE |
| (4) | BITSTRING | 1 | TCTEDMER | Error type byte 1 |
| | 1... .. | | TCTEDMCL | CLSDST failed - logon exit |
| | .1.. .. | | TCTEDMRA | Receive any error - ZRAC |
| | ..1. | | * | Reserved |
| | ...1 | | TCTEDMLG | VTAM detected logic error |
| | 1... | | TCTEDMSM | Issue storage message |
| |1.. | | TCTEDMSL | Negative resp to BIND fail |
| |1. | | TCTEVTMQ | VTAM Quiescing |
| |1 | | TCTEVTMP | VTAM Predatory takeover |
| (5) | BITSTRING | 1 | TCTEDME2 | Error type byte 2 |
| | 1... .. | | TCTEDMPD | TCTTE Delete pending |
| | .1.. .. | | TCTEDMAX | AUTOINSTALL max reached |
| | ..1. | | TCTEDMGF | O/S getmain failed |
| | ...1 | | TCTEDMUL | Unknown LU LOGON |
| | 1... | | TCTEDMAI | Autoinstall inactive |
| |1.. | | TCTEDMIT | Invalid LOGON token |
| |1. | | TCTEDMRY | Terminal recovery in prog |
| |1 | | * | Reserved |
| (6) | CHARACTER | 17 | TCTEDMQN | Qualified network name |
| (6) | CHARACTER | 8 | TCTEDMNN | NETNAME |
| (E) | CHARACTER | 1 | TCTEDMDT | ' ' SEPARATOR |
| (F) | CHARACTER | 8 | TCTEDMSQ | 2NDARY SESSION QUALIFIER |
| (17) | CHARACTER | 4 | TCTEDMID | Termid |
| (1B) | CHARACTER | 1 | TCTEDMMI | Module instance ID |
| (1C) | ADDRESS | 4 | TCTEDMBD | Address of saved BIND |
| (20) | FULLWORD | 4 | TCTEDMBL | Length of saved BIND |
| (24) | UNSIGNED | 4 | TCTEDMSN | Sense data |
| (24) | UNSIGNED | 1 | TCTEDMS1 | System sense byte 1 |
| (25) | UNSIGNED | 1 | TCTEDMS2 | System sense byte 2 |
| (26) | UNSIGNED | 1 | TCTEDMU1 | User sense byte 1 |
| (27) | UNSIGNED | 1 | TCTEDMU2 | User sense byte 2 |

DESCRIPTIVE NAME = Terminal Control Table Skeleton Entry
The TCT skeleton represents a terminal that is attached to another CICS address space and may interact with this CICS address space via the terminal sharing facility.
The two fields which form the key in the table management index 'TCTN', identify the TCTSE by which this CICS will access the terminal-owning address space and the name that the terminal has in its own address space.
The skeleton also exists in the 'TCTE' table management index
The skeleton is used by the Transaction Routing (some times called Terminal Shipping) component to hold definition information between INSTALL. and task-attach. The skeleton contains only the names unique to the entry, the other parameters are in a "model" referenced by the skeleton.
Models are shareable between skeletons.
The skeleton resides on the 'application' system, there must be a matching normal terminal entry on the 'terminal' system.
When a transaction is to be run, a 'surrogate' TCTTE is created in task-attach and made visible to the transaction program in the usual way.
A reference to the surrogate is placed in the skeleton while one exists.
LIFETIME = Created by ZC INSTALL: destroyed by ZC DELETE.
See DFHZCQ00.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 64 | DFHTCTSK | |
| (0) | CHARACTER | 4 | TCTSKID | Terminal identifier (local). |
| (4) | CHARACTER | 1 | TCTSKTT | Fits under TCTTETT, and contains TCTTESKE. |
| (5) | CHARACTER | 1 | * | |
| | 1... .. | | TCTSKSIF | System Entry is inflight |
| | .1.. .. | | TCTSKAIP | Aids in progress |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------|--|
| ..1. | | | TCTSKNDL | Don't delete me |
| ...1 | | | TCTSKSHI | Definition shipped in |
| 1... | | | TCTSKSAN | TCTSKSYS holds a name |
|1.. | | | TCTSKINF | Skeleton is inflight |
|1. | | | TCTSKPSH | Definition is shippable |
|1 | | | TCTSKSHO | Definition shipped out |
| (6) | CHARACTER | 1 | * | |
| 1... | | | TCTSKDDP | Delete started |
| .1.. | | | TCTSK_VIRTUAL_ TERMINAL | |
| | | | | CICS Client skel |
| ..1. | | | TCTSK_VT_ BITMAP_USED | |
| | | | | CICS assigned name |
| ...1 | | | TCTSK_RT_ BITMAP_USED | |
| | | | | CICS assigned RT name |
| 1... | | | TCTSKNDF | TCTSKNET was defaulted |
|1.. | | | TCTSK_VT_ SO_CAPABLE | |
| | | | | signon support for this virtual terminal |
|11 | | | * | Reserved |
| (7) | UNSIGNED | 1 | * | Reserved. |
| (8) | ADDRESS | 4 | TCTSKSYS | Owning system's TCTSE. or name |
| (C) | CHARACTER | 4 | TCTSKHID | Terminal ID in own retion. |
| (10) | ADDRESS | 4 | TCTSKMDE | Address of model TCTTE |
| (14) | ADDRESS | 4 | TCTSKSRE | Address of surrogate TCTTE |
| (18) | CHARACTER | 8 | TCTSKNET | Netname of TOR |
| (20) | CHARACTER | 8 | TCTSK_TITOKEN | token for remote delete |
| (28) | CHARACTER | 8 | TCTSK_TASK_ DETACH_TIME | |
| | | | | timestamp |
| (30) | CHARACTER | 8 | TCTSK_TERMINAL_ NETNAME | |
| | | | | NETNAME of terminal |
| (38) | CHARACTER | 8 | TCTSK_TOR_GRNAME | GR name of TOR |

DESCRIPTIVE NAME = Terminal Control Table Transaction Restart Extension

If a transaction is defined to be eligible for restart, copies of the TCTUA and the first TIOA have to be kept in case the transaction is restarted.

When a transaction is defined as restartable, a transaction restart extension is getmained and hung off the TCTTE (TCTTERST) Copies of the TCTUA and the initial TIOA are taken. The extension consists of addresses of the copies, followed by the copied data itself. If no TCTUA or TIOA exists the relevant address is zero. If neither the TCTUA nor TIOA exists, no extension is getmained.

LIFETIME = Created by DFHZSUP at transaction start, deleted by DFHZISP when a transaction ends and is not restarting.

Any change to this structure must be reflected in DFHTCTZE A

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------------|
| (0) | STRUCTURE | 24 | DFHTCTRS | |
| (0) | CHARACTER | 24 | TCTRSFIX | Fixed part of extrn |
| (0) | CHARACTER | 8 | TCTRSEYE | Eyecatcher |
| (8) | FULLWORD | 4 | TCTRSLLEN | Length of restart data |
| (C) | ADDRESS | 4 | TCTRSTUA | Address of TCTUA copy |
| (10) | ADDRESS | 4 | TCTRSFMH | Address of FMH5 copy |
| (14) | ADDRESS | 4 | TCTRSTIO | Address of TIOA copy |
| (18) | CHARACTER | | TCTRSCOP | Start of copy area |

=====

CCIN data which is hung from the TCTSE pointed to by TCSE_CCINDATA_PTR

=====

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 68 | TCSE_CCINDATA | |
| (0) | FULLWORD | 4 | TCSE_DATA_LENGTH | |
| (4) | CHARACTER | 12 | TCSE_HEADER_BLOCK | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|-------------|
| (4) | FULLWORD | 4 | TCSE_HEADER_LENGTH | |
| (8) | UNSIGNED | 1 | TCSE_GROUP | |
| (9) | UNSIGNED | 1 | TCSE_FUNCTION | |
| (A) | UNSIGNED | 1 | TCSE_VERSION | |
| (B) | UNSIGNED | 1 | TCSE_RESPONSE | |
| (C) | UNSIGNED | 2 | TCSE_REASON | |
| (E) | UNSIGNED | 2 | TCSE_NUM_PARMS | |
| (10) | CHARACTER | 13 | TCSE_APPLID_PARM | |
| (10) | FULLWORD | 4 | TCSE_APPLID_LENGTH | |
| (14) | UNSIGNED | 1 | TCSE_APPLID_PARM_TYPE | |
| (15) | CHARACTER | 8 | TCSE_APPLID | |
| (1D) | CHARACTER | 3 | * | |
| (20) | CHARACTER | 15 | TCSE_CODEPAGE_PARM | |
| (20) | FULLWORD | 4 | TCSE_CODEPAGE_LENGTH | |
| (24) | UNSIGNED | 1 | TCSE_CODEPAGE_PARM_TYPE | |
| (25) | CHARACTER | 10 | TCSE_CODEPAGE | |
| (2F) | CHARACTER | 1 | * | |
| (30) | CHARACTER | 8 | TCSE_CAPABILITIES_PARM | |
| (30) | FULLWORD | 4 | TCSE_CAPABILITIES_LENGTH | |
| (34) | UNSIGNED | 1 | TCSE_CAPABILITIES_PARM_TYPE | |
| (35) | BITSTRING | 1 | TCSE_ENVIRON | |
| | 1111 11.. | | * | |
| |1. | | TCSE_EBCDIC | |
| |1 | | TCSE_BIGENDIAN | |
| (36) | BITSTRING | 2 | TCSE_CLIENT_CAPABILITIES | |
| (36) | BITSTRING | 1 | * | |
| | 1... | | TCSE_EXIT_PROCESSING | |
| | ..1. | | TCSE_TRANSLATE_CAPABLE | |
| | ..1. | | TCSE_DELETE_ENTRIES | |
| | ...1 | | TCSE_TCTUA_COMMAREA | |
| | 1111 | | * | |
| (37) | BITSTRING | 1 | * | |
| (38) | CHARACTER | 9 | TCSE_SECURITY_PARM | |
| (38) | FULLWORD | 4 | TCSE_SECURITY_LENGTH | |
| (3C) | UNSIGNED | 1 | TCSE_SECURITY_PARM_TYPE | |
| (3D) | UNSIGNED | 1 | TCSE_ECIATTACH_USERID | |
| (3E) | UNSIGNED | 1 | TCSE_ECIATTACH_PASSWORD | |
| (3F) | UNSIGNED | 1 | TCSE_EPIATTACH_USERID | |
| (40) | UNSIGNED | 1 | TCSE_EPIATTACH_PASSWORD | |
| (41) | CHARACTER | 1 | * | |
| (42) | HALFWORD | 2 | TCSE_CTIN_INSTALL_COUNT | |

=====
 CTIN data which is hung from the virtual terminal surrogate TCTTE
 pointed to by TCTE_CTINDATA_PTR.
 =====

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|-------------|
| (0) | STRUCTURE | 18 | TCTE_CTINDATA | |
| (0) | CHARACTER | 8 | TCTE_CODEPAGE_TOKEN | |
| (8) | CHARACTER | 10 | TCTE_CODEPAGE | |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|----------|--|
| 1 | HEX | 01 | TCTTET77 | 7770 |
| 1 | HEX | 02 | TCTTES7 | System 7 |
| 1 | HEX | 08 | TCTTECON | Console |
| 1 | HEX | 12 | TCTTETSU | SEQUENTIAL DISK |
| 1 | HEX | 14 | TCTTETMT | MAGNETIC TAPE |
| 1 | HEX | 18 | TCTTETCR | CARD READER/LINE printer |
| 1 | HEX | 19 | TCTTETSU | SPOOLING system printer |
| 1 | HEX | 1A | TCTTETIN | SPOOLING INTERNAL READER |
| 1 | HEX | 20 | TCTTETHC | HARD COPY TERMINALS |
| 1 | HEX | 21 | TCTTETWX | Model 33/35 TWX |
| 1 | HEX | 22 | TCTTETLX | TELETYPEWRITER |
| 1 | HEX | 24 | TCTTET50 | 1050 |
| 1 | HEX | 28 | TCTTET40 | 2740 |
| 1 | HEX | 2A | TCTTET4C | 2741 CORRESPONDENCE |
| 1 | HEX | 2B | TCTTET4E | 2741 EBCDIC |
| 1 | HEX | 40 | TCTTETVO | VIDEO TERMINALS |
| 1 | HEX | 41 | TCTTET6L | 2260 local |
| 1 | HEX | 48 | TCTTET6R | 2260 remote |
| 1 | HEX | 4A | TCTTET53 | 1053 |
| 1 | HEX | 4C | TCTTET65 | 2265 |
| 1 | HEX | 50 | TCTTETAM | TCAM |
| 1 | HEX | 80 | TCTTETBI | BI-SYNCHRONOUS |
| 1 | HEX | 82 | TCTTET70 | 2770 |
| 1 | HEX | 84 | TCTTET80 | 2780 |
| 1 | HEX | 85 | TCTTE378 | 3780 |
| 1 | HEX | 86 | TCTTE298 | 2980 |
| 1 | HEX | 88 | TCTTET35 | 3735 |
| 1 | HEX | 89 | TCTTET74 | 3740 |
| 1 | HEX | 8A | TCTTET36 | 3600 BISYNCH |
| 1 | HEX | 91 | TCTTET37 | 3277 remote BTAM and REMOTE/LOCAL VTAM |
| 1 | HEX | 92 | TCTTET75 | 3275 remote |
| 1 | HEX | 93 | TCTTET84 | BTAM 3284 remote AND VTAM 3270P all |
| 1 | HEX | 94 | TCTTET86 | BTAM 3286 remote |
| 1 | HEX | 99 | TCTTETL7 | 3277 local BTAM |
| 1 | HEX | 9B | TCTTETL4 | BTAM 3284 local |
| 1 | HEX | 9C | TCTTETL6 | BTAM 3286 local |
| 1 | HEX | A0 | TCTTETPD | BISYNCH - PROGRAMMABLE |
| 1 | HEX | A1 | TCTTES3 | System/3 |
| 1 | HEX | A4 | TCTTE370 | System/370 |
| 1 | HEX | A6 | TCTTES7B | System/7 with BSCA |
| 1 | HEX | A6 | TCTTEPUB | PROGRAMMABLE device |
| 1 | HEX | A5 | TCTTE113 | Reserved-PROGRAMMABLE DEVICE |
| 1 | HEX | B0 | TCTESDLC | SDLC device class |
| 1 | HEX | B1 | TCTE3601 | 3601 |
| 1 | HEX | B2 | TCTE3614 | 3614 |
| 1 | HEX | B4 | TCTE3790 | 3790 |
| 1 | HEX | B5 | TCTE90UP | 3790 USERPROGRAM |
| 1 | HEX | B6 | TCTE90PR | 3790 SCS printer |
| 1 | HEX | B8 | TCTE50PL | 3650 PIPELINE |
| 1 | HEX | B9 | TCTE53HC | 3653 HOST CONVERSATIONAL |
| 1 | HEX | BA | TCTE70HC | 3650 ATTACHED 3270 H.C. |
| 1 | HEX | BB | TCTE50UP | 3650 USERPROGRAM |
| 1 | HEX | BD | TCTETCLU | CONTENTION logical unit |
| 1 | HEX | BE | TCTETILU | INTERACTIVE logical unit |
| 1 | HEX | BF | TCTETBLU | Batch logical unit |
| 1 | HEX | C0 | TCTELU6 | LUTYPE 6 |
| 1 | HEX | C1 | TCTELU4 | LUTYPE 4 |
| 1 | HEX | D0 | TCTTEISL | System entry |
| 1 | HEX | D1 | TCTTEISC | MRO Conversation |
| 1 | HEX | D2 | TCTTEMGU | LUC mode group entry |
| 1 | HEX | D3 | TCTTELUS | LUC session |
| 1 | HEX | DF | TCTT3750 | 1750/3750 switching system |
| 1 | HEX | E2 | TCTTESKE | Skeleton entry |
| 1 | HEX | E3 | TCTTECWE | Evanescent console |
| 1 | HEX | E4 | TCTTEAWE | Evanescent terms * |

ACCESS METHOD FLAGS

| | | | | |
|---|-----|----|----------|--|
| 1 | HEX | 00 | TCTELCL | local TERMINATOR-TCSE only |
| 1 | HEX | 80 | TCTEVTAM | Access Method - VTAM |
| 1 | HEX | 40 | TCTEBTAM | Access Method - BTAM |
| 1 | HEX | 20 | TCTEBSAM | Access Method - BSAM |
| 1 | HEX | 10 | TCTETCAM | Access Method - TCAM |
| 1 | HEX | 08 | TCTEGAM | Access Method - GAM |
| 1 | HEX | 02 | TCTEISMM | Access Method - ISMM |
| 1 | HEX | 01 | TCTETMSN | Access Method - TCAM SNA (bit testing only) |
| 1 | HEX | 11 | TCTETCSN | Access Method - TCAM SNA (byte testing only) |

VTAM BUILD AREA CONSTANTS

| | | | | |
|---|-----|----|---------|------------------------------|
| 1 | HEX | 10 | TCTENMA | No MSG avail and no LDC * |
| 1 | HEX | 20 | TCTEALM | ALARM |
| 1 | HEX | 40 | TCTEFOD | Formatted data |
| 1 | HEX | 80 | TCTESYM | System message generic MSK * |
| 1 | HEX | 90 | TCTEABI | Abnormal initiation |
| 1 | HEX | A0 | TCTEABT | Abnormal termination |

| Len | Type | Value | Name | Description |
|---|---------|-------|---------------------------------------|---------------------|
| 1 | HEX | C0 | TCTEIFM | Information message |
| 1 | HEX | D0 | TCTERPM | Retry PROTOCOL MSG |
| <hr/> | | | | |
| 1 | DECIMAL | 0 | CR_PEND_RECOVERY_IGNORE | |
| 1 | DECIMAL | 1 | CR_PEND_RECOVERY_NECESSARY | |
| 1 | DECIMAL | 2 | CR_PEND_RECOVERY_UNNECESSARY | |
| 0 | BIT | 00 | CR_UOW_COLD | |
| 0 | BIT | 01 | CR_UOW_COMMITTED | |
| 0 | BIT | 10 | CR_UOW_BACKED_OUT | |
| 0 | BIT | 11 | CR_UOW_INDOUBT | |
| 0 | BIT | 11 | CR_UOW_DISPOSITION_MASK | |
| 0 | BIT | 0 | PRESUMED_ABORT | |
| 0 | BIT | 1 | PRESUMED_NOHING | |
| 0 | BIT | 00 | CR_RESYNC_UNKNOWN | we cold started |
| 0 | BIT | 01 | CR_RESYNC_OLD | partner pre-5.1 |
| 0 | BIT | 10 | CR_RESYNC_NEW | partner 5.1+ |
| 0 | BIT | 11 | CR_RESYNC_MASK | field mask |
| 0 | BIT | 000 | CR_1ST_LEG | |
| 0 | BIT | 001 | CR_2ND_LEG | |
| 0 | BIT | 010 | CR_3RD_LEG | |
| 0 | BIT | 0 | UNRELIABLE | |
| 0 | BIT | 1 | RELIABLE | |
| <hr/> | | | | |
| ?DFHZCHM TYPE(DECLARE) Values of TCTECHSS | | | | |
| 1 | DECIMAL | 1 | TCTE_BETWEEN_CHAINS_SEND | |
| 1 | DECIMAL | 2 | TCTE_IN_CHAIN_SEND | |
| 1 | DECIMAL | 3 | TCTE_AWAITING_RESPONSE_SEND | |
| 1 | DECIMAL | 4 | TCTE_PENDING_RESPONSE_SEND | |
| 1 | DECIMAL | 5 | TCTE_NEGATIVE_RESPONSE_RECEIVED | |
| 1 | DECIMAL | 6 | TCTE_BETWEEN_CHAINS_RECEIVE | |
| 1 | DECIMAL | 7 | TCTE_IN_CHAIN_RECEIVE | |
| 1 | DECIMAL | 8 | TCTE_PENDING_RESPONSE_RECEIVE | |
| 1 | DECIMAL | 9 | TCTE_AWAITING_RESPONSE_RECEIVE | |
| 1 | DECIMAL | 10 | TCTE_NEGATIVE_RESPONSE_SEND | |
| <hr/> | | | | |
| ?DFHZBSM TYPE(DECLARE) Values of TCTEBKTS | | | | |
| 1 | DECIMAL | 1 | TCTE_BETWEEN_BRACKETS | |
| 1 | DECIMAL | 2 | TCTE_IN_BRACKET | |
| 1 | DECIMAL | 3 | TCTE_IN_BRACKET_TERM_SEND | |
| 1 | DECIMAL | 4 | TCTE_IN_BRACKET_TERM_RECEIVE | |
| <hr/> | | | | |
| ?DFHZCNM TYPE(DECLARE) Values of TCTECNTS | | | | |
| 1 | DECIMAL | 1 | TCTE_NOT_BOUND | |
| 1 | DECIMAL | 2 | TCTE_NOT_BOUND_CON_WIN | |
| 1 | DECIMAL | 3 | TCTE_NOT_BOUND_CON_LOSE | |
| 1 | DECIMAL | 4 | TCTE_BOUND_CON_WIN | |
| 1 | DECIMAL | 5 | TCTE_BOUND_CON_WIN_ALLOCATED | |
| 1 | DECIMAL | 6 | TCTE_BOUND_CON_WIN_RTR_SENT | |
| 1 | DECIMAL | 7 | TCTE_BOUND_CON_WIN_RTR_PEND | |
| 1 | DECIMAL | 8 | TCTE_BOUND_CON_LOSE | |
| 1 | DECIMAL | 9 | TCTE_BOUND_CON_LOSE_ALLOCATED | |
| 1 | DECIMAL | 10 | TCTE_BOUND_CON_LOSE_BIDDING | |
| 1 | DECIMAL | 11 | TCTE_BOUND_CON_LOSE_BB_CROSSING | |
| 1 | DECIMAL | 12 | TCTE_BOUND_CON_LOSE_RTR_PEND | |
| 1 | DECIMAL | 13 | TCTE_BOUND_CON_LOSE_REBID_PEND | |
| 1 | DECIMAL | 14 | TCTE_BOUND_CON_LOSE_AWAITING_ACTIVITY | |
| 1 | DECIMAL | 15 | TCTE_BOUND_CON_WIN_BID_ACCEPTED | |

| Len | Type | Value | Name | Description |
|---|-----------|-------|-------------------------------------|------------------------|
| ?DFHZCRM TYPE(DECLARE) Values of TCTERPBS | | | | |
| 1 | DECIMAL | 1 | TCTE_INACTIVE | |
| 1 | DECIMAL | 2 | TCTE_INCOMP_REC_WAIT | |
| 1 | DECIMAL | 3 | TCTE_COMP_REC_WAIT | |
| 1 | DECIMAL | 4 | TCTE_INCOMP_REC_IMM | |
| 1 | DECIMAL | 5 | TCTE_COMP_REC_IMM | |
| 1 | DECIMAL | 6 | TCTE_PROCESSED | |
| 1 | DECIMAL | 7 | TCTE_READ_AHEAD | |
| 1 | DECIMAL | 8 | TCTE_RESETSR | |
| ?DFHZUSRM TYPE(DECLARE) Values of TCTEUSRS | | | | |
| 1 | DECIMAL | 1 | TCTE_NOT_ALLOCATED | |
| 1 | DECIMAL | 2 | TCTE_ALLOCATE_ IN_PROGRESS | |
| 1 | DECIMAL | 3 | TCTE_ALLOCATED_SEND | |
| 1 | DECIMAL | 4 | TCTE_ALLOCATED_ RECEIVE_PENDING | |
| 1 | DECIMAL | 5 | TCTE_ALLOCATED_ RECEIVE | |
| 1 | DECIMAL | 6 | TCTE_FREE_ PENDING_SEND | |
| 1 | DECIMAL | 7 | TCTE_FREE_REQUIRED | |
| 1 | DECIMAL | 8 | TCTE_IN_SYNCPT_ SENDER_ONE_PHASE | |
| 1 | DECIMAL | 9 | TCTE_IN_SYNCPT_ RCVER_ONE_PHASE | |
| 1 | DECIMAL | 10 | TCTE_IN_SYNCPT_ SENDER_TWO_PHASE | |
| 1 | DECIMAL | 11 | TCTE_IN_SYNCPT_ RCVER_TWO_PHASE | |
| 1 | DECIMAL | 12 | TCTE_IN_SYNCPT_ BACKOUT_SENDER | |
| 1 | DECIMAL | 13 | TCTE_IN_SYNCPT_ BACKOUT_RECEIVER | |
| 1 | DECIMAL | 14 | TCTE_ALLOCATED_ CONFIRM_SENDER | |
| 1 | DECIMAL | 15 | TCTE_ALLOCATED_ CONFIRM_RECEIVER | |
| Persistent Sessions State Constants for TCTE_PRSS | | | | |
| 1 | HEX | 00 | TCTE_NO_PRSS_ RECOVERY | |
| 1 | HEX | 01 | TCTE_NIB_MATCHED | |
| 1 | HEX | 02 | TCTE_OPNDST_ RESTORE_COMPLETED | |
| 1 | HEX | 20 | TCTE_ZXRC_CLEANUP | |
| 1 | HEX | 21 | TCTE_ZXRC_ ISSUE_RECOVERY_MSG | |
| 1 | HEX | 30 | TCTE_ZXPS_CLEANUP | |
| 1 | HEX | 31 | TCTE_ZXPS_ DEALLOCATE_ABEND | |
| 1 | HEX | 32 | TCTE_ZXPS_ SEND_IN_PROGRESS | |
| 1 | HEX | 33 | TCTE_ZXPS_ ISSUE_RECOVERY_MSG | |
| 1 | HEX | 34 | TCTE_ZXPS_ RECEIVE_IN_PROGRESS | |
| 1 | HEX | 41 | TCTE_ZGDA_FMH7_SEND | |
| 1 | HEX | 42 | TCTE_ZGDA_FMH7_COMP | |
| 1 | HEX | 43 | TCTE_ZGDA_FMH7_REC | |
| 1 | HEX | 44 | TCTE_ZGDA_ FMH7_REC_EOC | |
| 1 | HEX | 45 | TCTE_ZGDA_RESP | |
| 1 | HEX | FF | TCTE_PRSS_ CLSDST_SCHEDULED | |
| 1 | HEX | FF | TCTE_CLSDST_ SCHEDULED | |
| Used in 3735 Mode Control byte TCTTEMCI | | | | |
| 1 | HEX | 00 | TCTTEMCO | Initialization image |
| Used in 3740 Mode Control byte TCTTENCI | | | | |
| 1 | HEX | 00 | TCTTENC0 | Initialization image |
| Used in IRC bracket status byte TCTESBRS | | | | |
| 1 | HEX | 00 | TCTESOB | OUT OF BRACKET |
| 1 | HEX | 80 | TCTESIB | IN BRACKET |
| 1 | HEX | 40 | TCTESBBR | BEGIN BRACKET received |
| 1 | HEX | 10 | TCTESBBS | BEGIN BRACKET sent |
| 1 | HEX | 08 | TCTESEBS | END BRACKET sent |
| 1 | HEX | 04 | TCTESEBR | END BRACKET received |
| SYSTEM TABLE ENTRY DEFINITIONS | | | | |
| Used in TCSETYPE | | | | |
| 1 | CHARACTER | S | TCSETSUS | Full system entry |

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------------------|-----------------------------|
| 1 | CHARACTER | L | TCSETLOC | Local region, no links |
| 1 | CHARACTER | I | TCSETIND | INDIRECT System Entry |
| Used in TCSEDSP (DATA-STREAM) | | | | |
| 1 | HEX | 40 | TCSEDSLM | LMS |
| 1 | HEX | 30 | TCSEDSST | Structured field |
| 1 | HEX | 20 | TCSEDS32 | 3270 |
| 1 | HEX | 10 | TCSEDS3C | SCS |
| 1 | HEX | 00 | TCSEDSUS | User |
| Used in TCSEDBA (DE-blocking algorithm) | | | | |
| 1 | HEX | 04 | TCSEDBUS | User defined |
| 1 | HEX | 01 | TCSEDBVB | Variable length blocked |
| VTAM INTERNAL REQUESTS for ZSDS ROUTINE Used in TCTERCMO :- | | | | |
| 1 | HEX | 40 | TCTERCSM | CONTINUE SPECIFIC mode |
| 1 | HEX | C0 | TCTERCA | CONTINUE ANY mode |
| Used in TCTERMOD :- | | | | |
| 1 | HEX | 00 | TCTERSYN | Reset RTYPE DFSYN |
| 1 | HEX | 01 | TCTERRSP | Reset RTYPE RESP |
| 1 | HEX | 03 | TCTERASY | Reset RTYPE DFASY |
| LUC Constants TCTE_BID_STATUS constants used in DFHZXPS :- | | | | |
| 1 | HEX | 01 | TCTE_SEND_ | POSITIVE_RESPONSE |
| 1 | HEX | 02 | TCTE_SEND_ | NEGATIVE_RESPONSE |
| 1 | HEX | 03 | TCTE_SEND_RTR | |
| 1 | HEX | 04 | TCTE_SENT_RTR | |
| 1 | HEX | 05 | TCTE_SEND_LUSTAT_EB | |
| 1 | HEX | 06 | TCTE_AWAITING_ | BB_RESPONSE |
| 1 | HEX | 07 | TCTE_SENT_ | POSITIVE_RESPONSE |
| 1 | HEX | 08 | TCTE_0814_RECEIVED | |
| 1 | HEX | 09 | TCTE_0813_RECEIVED | |
| 1 | HEX | 0A | TCTE_SEND_ | RECOVERY_MESSAGE |
| 1 | HEX | 0D | TCTE_SEND_ | LUSTAT_BB_EB |
| TCTE_RESP_STATUS constants used in DFHZXPS | | | | |
| 1 | HEX | 01 | TCTE_DR1_OUTSTANDING | |
| 1 | HEX | 02 | TCTE_DR1_EXPECTED | |
| NIB Descriptor Constants Used in TCTESTAC :- | | | | |
| 1 | HEX | 00 | TCTEACIG | STSN ACTION - IGNORE |
| 1 | HEX | 01 | TCTEACSE | STSN ACTION - SET |
| 1 | HEX | 02 | TCTEACIV | STSN ACTION - INVALID |
| 1 | HEX | 03 | TCTEACST | STSN ACTION - STSN |
| 1 | DECIMAL | 0 | TCTESPL0 | --- NONE |
| 1 | DECIMAL | 1 | TCTESPL1 | --- COMMIT |
| 1 | DECIMAL | 2 | TCTESPL2 | --- all |
| 1 | HEX | 00 | TCTEUNMP | "UNMAPPED" |
| 1 | HEX | FF | TCTECV0 | CONV. type not set |
| Used in TCTESTRP :- | | | | |
| 1 | HEX | 20 | TCTERPRR | STSN response - RESET * |
| 1 | HEX | 08 | TCTERPTP | STSN response +ve RPLOPOS * |
| 1 | HEX | 04 | TCTERPTN | STSN response -ve RPLONEG * |
| 1 | HEX | 02 | TCTERPIV | STSN response inv RPLOINV * |
| Length of a Skeleton Entry | | | | |
| 4 | DECIMAL | 64 | TCTSKDSP | |
| Length of a fixed part of restart extension | | | | |
| 4 | DECIMAL | 24 | TCTRSFLN | |

TCTWA TCT transaction work area

MODULE NAME = DFHTCTWA
 DESCRIPTIVE NAME = CICS TCT Transaction Work Area
 FUNCTION = This DSECT defines the Transaction Work Area for the
 Terminal Control Transaction itself. This transaction
 responds to requests for terminal services.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-----------------------------------|
| (0) | | | DFHTCTWA | TWA address is in TCATWAAD |
| (0) | DBL WORD | 8 | TCTWA (0) | Start of TC TWA |
| (0) | ADDRESS | 4 | TCSPTA | Read terminal entry address |
| (4) | CHARACTER | 1 | TCPIND | Polling indicator |
| (5) | CHARACTER | 3 | TCERRSA | Terminal error code save area |
| (8) | ADDRESS | 4 | TCTXTPA | Terminal pool address |
| (C) | BITSTRING | 1 | TCTXLPAF (0) | Line in pool avail flag byte |
| | | | 1... .. | TCTXLPAV |
| | | | | "X'80" Line in pool avail (3170L) |
| (C) | ADDRESS | 4 | TCTXLP | 1st line in pool pointer save |
| (10) | ADDRESS | 4 | TCTRNTA | Translate table address |
| (14) | ADDRESS | 4 | TCL3PTSV | Local 3270 poll terminal save |
| (18) | ADDRESS | 4 | TCTSPRA | Specific poll return address |
| (1C) | ADDRESS | 4 | TCTWLA | Active wait list address |
| (20) | BITSTRING | 1 | TWASDCF | Single drop control flag |
| (21) | BITSTRING | 1 | (3) | Reserved |
| (24) | FULLWORD | 4 | TWATDRSV | TCP dispatcher return save |
| (28) | FULLWORD | 4 | TWACTIOE | 2260 TIOA end save area |
| (2C) | FULLWORD | 4 | TWACFWD1 | Full word work area |
| (30) | FULLWORD | 4 | TWACFWD2 | Full word work area |
| (34) | FULLWORD | 4 | TWACFWD3 | Full word work area |
| (38) | FULLWORD | 4 | TWACFWD4 | Full word work area |
| (3C) | BITSTRING | 1 | TWATEPF | Timer completion |
| | | | ..1. | TWATEPI |
| | | | ..1. | TWALSEI |
| (3D) | BITSTRING | 1 | TWACFLAG | Compatibility control flags |
| | | |1 | TWACDSCI |
| | | |1. | TWACWSI |
| | | |1. | TWACSLI |
| | | | 1... | TWACSSF1 |
| | | | 1.... | TWACWSIT |
| (3E) | HALFWORD | 2 | TWAC2260 | Number of chars/line for 2260 |
| (40) | HALFWORD | 2 | TWAC3270 | Number of chars/line for 3270 |
| (42) | HALFWORD | 2 | TWAFDLBA | First display LN begin address |
| (44) | HALFWORD | 2 | TWALDLBA | Last display line begin address |
| (46) | HALFWORD | 2 | TWAIBDL | Increment between display lines |
| (48) | HALFWORD | 2 | TWACNBEO | Number if bytes for erase |
| | | | 11.. | TWACAL |
| (4A) | HALFWORD | 2 | TWACBAP | Current buffer address position |
| (4C) | HALFWORD | 2 | TWACLSA | Current line start address |
| (4E) | CHARACTER | 256 | TCTTT | Input data length T & T table |
| (50) | DBL WORD | 8 | RCLOCK | Time of day clock |
| (58) | FULLWORD | 4 | OCLOCK | Word to save internal clock |
| (5C) | FULLWORD | 4 | MSGNTNM (0) | |
| (5C) | ADDRESS | 1 | | |
| (5D) | ADDRESS | 1 | | GENERATE LENGTH |
| (5E) | BITSTRING | 1 | | OPTION BYTE |
| (5F) | BITSTRING | 1 | | RESERVED |
| (60) | CHARACTER | 10 | | |
| (6A) | CHARACTER | 8 | NETNAME2 | |
| (72) | CHARACTER | 3 | | |
| (75) | CHARACTER | 35 | JOBNAME2 | |
| | | | 1..1 1... | MSG0001 |
| | | | 1..1 1... | MSGNTNME |
| (150) | FULLWORD | 4 | TWAXRPL (0) | |
| (150) | BITSTRING | 1 | | V*1 request byte |
| (151) | BITSTRING | 1 | | V*2 request byte modifier |
| (152) | BITSTRING | 1 | | V*3 MVS System indicator |
| (153) | BITSTRING | 1 | | V*4 response byte |
| (154) | BITSTRING | 1 | | V*5 XRF |
| (155) | BITSTRING | 1 | | V*6 TAKEOVR |
| (156) | CHARACTER | 1 | | V*7 SURVEILLANCE |
| (157) | CHARACTER | 1 | | V*8 signon status |
| (158) | CHARACTER | 8 | (0) | generic applid |
| (158) | CHARACTER | 8 | (0) | 'time' xx ECB posted |
| (158) | CHARACTER | 8 | (0) | program name |
| (158) | CHARACTER | 4 | | - domain id |
| (15C) | CHARACTER | 4 | | - reserved |
| (160) | CHARACTER | 8 | (0) | specific applid |
| (160) | CHARACTER | 4 | | - error id |
| (164) | FULLWORD | 4 | | - global data address |
| (168) | FULLWORD | 4 | (0) | ADI |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------|
| (168) | CHARACTER | 4 | | - MVS id. |
| (16C) | FULLWORD | 4 | (0) | JESDI |
| (16C) | CHARACTER | 4 | | - JES subsystem id. |
| (170) | FULLWORD | 4 | (0) | PDI |
| (170) | FULLWORD | 4 | | Lower clock difference |
| (174) | FULLWORD | 4 | | Upper clock difference |
| (178) | CHARACTER | 8 | | XCF Sysplex name |
| (180) | CHARACTER | 8 | | MVS System name |
| (188) | CHARACTER | 4 | | MVS instance token |
| (188) | | | TCTWALEN | "*-TCTWA" TCP'S TWA Length |
| (0) | FULLWORD | 4 | TCRAFDA | First data record address |
| |1. | | TCRAAREC | "X'02" Re-entered ind. constant |

TCTWE VTAM autoinstall work element

```

Bilingual Control block
=====

CONTROL BLOCK NAME = DFHTCTWE

DESCRIPTIVE NAME = CICS (VTAM) AUTOINSTALL WORK EMENT

FUNCTION = Provide mapping for autoinstall work element components.

The DSECT is used solely within the ZCP DOMAIN.

There are as many WE's as there are autoinstall requests
in progress.

The WE is used to store the CINIT_RU or BIND so that the
logon may be attempted by DFHZATA.

If the WE contains a TCTTE address then this is a
Postponed autoinstall work element (PWE), created by
DFHZLGX when there is a LOGON for a TCTTE which is
currently being deleted.

If the WE has TCTTECWE set then it is a Autoin-
stall Work Element used to autoinstall a
console and to sign-off or sign-on a known
console automatically.

LIFETIME = The WE is created by a GETMAIN issued by DFHZLGX
(LOGON-EXIT) or DFHZSCX (SCIP exit) or DFHZCNA
(Console Input) when an unknown terminal or
console or APPC device attempts to LOGON or BIND
or an unknown console issues an MVS MODIFY. It
is also created if a known console needs to be
signed-off or signed-on automatically.
It is also created for a known terminal subject to
certain restrictions. The WE is freed by DFHZNCA
after DFHZNEP is driven for the OPNDST contition
TWAEC=TCSOPSIN or prior to DFHZNEP being driven for
a CLSDST contition TWAEC=TCACLSIN.

The WE is freed by DFHZATA when the request has been
processed.

STORAGE CLASS = USER(OS - SUBPOOL 1)

LOCATION = For unknown terminals, each WE is chained off the
previous one and the first one is anchored from
TCTVANWE in the TCT prefix. After the TCTTE is
built by DFHZATA for autoinstall-eligible devices,
the WE address is saved in TCTEAWEA. For known
terminals, DFHZLGX updates TCTEAWEA.

INNER CONTROL BLOCKS = NONE

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = DSECT

EXTERNAL REFERENCES = NONE

DATA AREAS = NONE

CONTROL BLOCKS = NONE

GLOBAL VARIABLES (MACRO PASS) = NONE

=====
=====
AUTOINSTALL WORK - ELEMENT DSECT
=====
=====
  
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|---------------------------------------|
| (0) | STRUCTURE | * | DFHTCTWE | Autoinstall work element |
| (0) | ADDRESS | 4 | TCTWECHN | - AWE chain field |
| (4) | ADDRESS | 4 | TCTWE_VTAM_BIND | - address of VTAM read only bind @P2A |
| (8) | UNSIGNED | 1 | TCTWETYP | - Data type ID |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|--|
| (9) | UNSIGNED | 3 | TCTWELEN | - Length of this block |
| (C) | ADDRESS | 4 | TCTWETEA | - TCTTE ptr if PWE. |
| (10) | CHARACTER | 8 | TCTWE_TEMPLATE_ NETNAME | - NETNAME of GR template @L1A |
| (18) | CHARACTER | 8 | TCTWE_NETID | - Network ID @L1A |
| (18) | CHARACTER | 8 | TCTWE_NETNAME | - NETNAME if CINIT @P3A |
| (20) | CHARACTER | 4 | TCTWECID | - VTAM CID |
| (24) | UNSIGNED | 2 | TCTWE_RPLSEQNO | - for opnsec |
| (26) | UNSIGNED | 1 | * | - flag byte 1 |
| | 1... .. | | TCTWE_BIND_ CLONING | - On if APPC bind input |
| | .1.. .. | | TCTWE_GR | - On if both sides are GR registered @L1A |
| | ..1. .. | | TCTWE_GRNAME_ CONN | - On if this GR conn is known by its GR name. @L1A - Off if this is a GR @L1A conn known by its @L1A member name. @L1A |
| | ...1 .. | | TCTWE_USE_ OUR_MEMBER_NAME | - On if partner knows us @L1A by our member name @L1A (NRINNAMS) @L1A - Off if partner knows @L1A us by our GR name @L1A ~(NRINNAMS) |
| (27) | UNSIGNED | 1 | * | - flag byte 1 |
| (28) | HALFWORD | 2 | TCTWECLN | - length of CINIT_RU or |
| (28) | HALFWORD | 2 | TCTWE_BIND_ LENGTH | - length of APPC BIND |
| (2A) | CHARACTER | * | TCTWECRU | - CINIT_RU or |
| (2A) | CHARACTER | * | TCTWE_BIND | - APPC BIND |

```

=====
Autoinstall Work Element - Console Overlay
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|---------------------------|
| (20) | STRUCTURE | * | TCTCWE | Console work element @01A |
| (20) | HALFWORD | 2 | TCTCWE_DATAL | - Length of input @01A |
| (22) | UNSIGNED | 1 | TCTCWE_FLG | - Flag byte @01A |
| | 1... .. | | TCTCWE_EXT | - Ext cons support @01A |
| | .1.. .. | | TCTCWE_SEC | - Userid present @01A |
| | ..1. .. | | TCTCWE_SGN | - Sign-Off/Sign-On @01A |
| | ...1 1111 | | * | Reserved @01A |
| (23) | CHARACTER | 1 | * | Reserved @01A |
| (24) | CHARACTER | 8 | TCTCWE_CART | - Saved CIBXCART @01A |
| (2C) | CHARACTER | 4 | TCTCWE_CNID | - CIBXC�ID/CIBXCOCID @01A |
| (30) | CHARACTER | 8 | TCTCWE_CNNM | - Saved CIBXC�NM @01A |
| (30) | CHARACTER | 1 | TCTCWE_CONID | - Saved CIBCONID @01A |
| (31) | CHARACTER | 7 | * | Reserved @01A |
| (38) | CHARACTER | 10 | TCTCWE_USERID | - Userid signed on @01A |
| (42) | HALFWORD | 2 | TCTCWE_USERID_LEN | - length of userid @01A |
| (44) | CHARACTER | 4 | TCTCWE_TERMID | - Termid for signon @01A |
| (48) | CHARACTER | * | TCTCWE_DATA | - Input from console @01A |

TCV29 XRF mapping session state vector '29'

CONTROL BLOCK NAME = DFHTCV29
DESCRIPTIVE NAME = CICS (XRF) Mapping Session State Vector '29'
FUNCTION =
 For XRF:-
 Defines the data returned in response to the XRF Switch command. When the XRF backup system issues the Switch command to take over a session, the response data received is described by Session State Data Control Vector X'29'.
 This data is used by CICS to determine state of the session at takeover so that the appropriate Cleanup action can be taken.
 For Persistent Sessions:-
 The data is returned following the OPNDST OPTCD=RESTORE issued by DFHZGRP after a Persistent Sessions restart.
LIFETIME =
 For a Persistent sessions restart, a TIOA is acquired to hold this data when the OPNDST OPTCD=RESTORE command is issued.
 For XRF, this data is held in the RPL after the Switch command is issued.
 The area is freemained when the data has been examined.
STORAGE CLASS = Terminal
LOCATION = Normal TIOA addressing
INNER CONTROL BLOCKS = None
NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 MODULE TYPE = DSECT

```

PLS declaration of the session state CV29 DSECT
declare
1 dfhtcv29 based,
2 tc29ikey char(1), Vector key
2 tc29len bin(8), Length of vector
2 bit(8), Switch definition byte
2 tc29dfw bit(8), Data flow indicators
3 tc29stp bit(1), Last req/resp was slu-to-plu
3 tc29exp bit(1), Last req/resp was expedited
3 tc29rsp bit(1), Last PIU was a response
3 tc29prx bit(1), Exp. resp. not sent to plu
3 tc29srx bit(1), Exp. resp. not sent to slu
3 tc29pac bit(1), Pacing resp. sent to slu
3 bit(2), Reserved
2 char(1), Reserved
    PLU-to-SLU data - Normal Flow information
2 char(5), Last FIC or LIC sent plu-to-slu
3 tc29pfnu char(2), Sequence number
3 tc29pfrh char(3), Request Header
2 char(10), Last Request sent plu-to-slu
3 tc29pqnu char(2), Sequence number
3 tc29pqrh char(3), Request Header
3 tc29pqr char(5), First 5 bytes of Request RU
2 char(9), Last Response sent plu-to-slu
3 tc29ppnu char(2), Sequence number
3 tc29pprh char(2), First 2 bytes of Request Header
3 tc29ppru char(5), First 5 bytes of response RU
    PLU-to-SLU data - Expedited Flow information
2 char(10), Last Expedited request sent
3 tc29pxqn char(2), Sequence number
3 tc29pxqh char(3), Request Header
3 tc29pxqu char(5), First 5 bytes of Request RU
2 char(9), Last Expedited Response sent
3 tc29pxpn char(2), Sequence number
3 tc29pxph char(2), First 2 bytes of Request Header
3 tc29pxpu char(5), First 5 bytes of Response RU
    SLU-to-PLU data - Normal Flow information
2 char(5), Last FIC or LIC sent slu-to-plu
3 tc29sfnu char(2), Sequence number
3 tc29sfrh char(3), Request Header
2 char(10), Last Request sent slu-to-plu
3 tc29sqnu char(2), Sequence number
3 tc29sqrh char(3), Request Header
3 tc29sqr char(5), First 5 bytes of Request RU
2 char(9), Last Response sent slu-to-plu
3 tc29spnu char(2), Sequence number
3 tc29sprh char(2), First 2 bytes of Request Header
3 tc29spru char(5), First 5 bytes of response RU
    SLU-to-PLU data - Expedited Flow information
2 char(10), Last Expedited request sent
3 tc29sxqn char(2), Sequence number
3 tc29sxqh char(3), Request Header
3 tc29sxqu char(5), First 5 bytes of Request RU
2 char(9), Last Expedited Response sent
3 tc29sxp char(2), Sequence number
3 tc29sxph char(2), First 2 bytes of Request Header
3 tc29sxpu char(5), First 5 bytes of Response RU
dcl tc29key bit(8) constant('29X'); Vector key
ASM declaration of the session state CV29 DSECT
    Start of assembler

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|-------------------------------------|
| (0) | | | DFHTCV29 | |
| (0) | BITSTRING | 1 | TC29IKEY | "X'29" Vector key |
| | ..1. 1..1 | | TC29KEY | Length of Vector |
| (1) | BITSTRING | 1 | TC29LEN | Switch type definition byte |
| (2) | BITSTRING | 1 | (0) | Switch Request |
| (2) | BITSTRING | 1 | TC29REQ (0) | "X'10" Switch is conditional |
| | ...1 | | TC29CON | "X'20" Switch is Forced |
| | ..1. | | TC29FOR | "X'30" Primary Session error |
| | ..11 | | TC29ERR | Switch State |
| (2) | BITSTRING | 1 | TC29STAT (0) | "X'01" Primary ready to be backup |
| |1 | | TC29BAK | "X'02" Backup ready to be primary |
| |1. | | TC29PRI | |
| (2) | BITSTRING | 1 | | |
| (3) | BITSTRING | 1 | TC29DFW (0) | Data flow indicators |
| | 1... | | TC29STP | "X'80" Last Req/Resp was slu-to-plu |
| | .1.. | | TC29EXP | "X'40" Last Req/Resp was Expedited |
| | ..1. | | TC29RSP | "X'20" Last PIU was a response |
| | ...1 | | TC29PRX | "X'10" Exped. resp not sent to plu |
| | 1... | | TC29SRX | "X'08" Exped. resp not sent to slu |
| |1. | | TC29PAC | "X'04" Pacing resp sent to slu |
| (3) | BITSTRING | 1 | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|---------------------------------------|
| (4) | BITSTRING | 1 | | Reserved |
| PLU-to-SLU data - Normal Flow information | | | | |
| (5) | BITSTRING | 24 | (0) | plu-to-slu Normal Flow info |
| (5) | BITSTRING | 5 | (0) | Last FIC or LIC sent plu-to-slu |
| (5) | BITSTRING | 2 | TC29PFNU | Sequence number |
| (7) | BITSTRING | 3 | TC29PFRH | Request Header |
| (A) | BITSTRING | 10 | (0) | Last Request sent plu-to-slu |
| (A) | BITSTRING | 2 | TC29PQNU | Sequence number |
| (C) | BITSTRING | 3 | TC29PQRH | Request Header |
| (F) | BITSTRING | 5 | TC29PQRU | First 5 bytes of Request RU |
| (14) | BITSTRING | 9 | (0) | Last Response sent plu-to-slu |
| (14) | BITSTRING | 2 | TC29PPNU | Sequence number |
| (16) | BITSTRING | 2 | TC29PPRH | First 2 bytes of Request Header |
| (18) | BITSTRING | 5 | TC29PPRU | First 5 bytes of response RU |
| PLU-to-SLU data - Expedited Flow information | | | | |
| (1D) | BITSTRING | 19 | (0) | plu-to-slu Expedited Flow info |
| (1D) | BITSTRING | 10 | (0) | Last Expedited request sent |
| (1D) | BITSTRING | 2 | TC29PXQN | Sequence number |
| (1F) | BITSTRING | 3 | TC29PXQH | Request Header |
| (22) | BITSTRING | 5 | TC29PXQU | First 5 bytes of Request RU |
| (27) | BITSTRING | 9 | (0) | Last Expedited Response sent |
| (27) | BITSTRING | 2 | TC29XPXN | Sequence number |
| (29) | BITSTRING | 2 | TC29XPXH | First 2 bytes of Request Header |
| (2B) | BITSTRING | 5 | TC29XPXU | First 5 bytes of Response RU |
| SLU-to-PLU data - Normal Flow information | | | | |
| (30) | BITSTRING | 24 | (0) | slu-to-plu Normal Flow info |
| (30) | BITSTRING | 5 | (0) | Last FIC or LIC sent slu-to-plu |
| (30) | BITSTRING | 2 | TC29SFNU | Sequence number |
| (32) | BITSTRING | 3 | TC29SFRH | Request Header |
| (35) | BITSTRING | 10 | (0) | Last Request sent slu-to-plu |
| (35) | BITSTRING | 2 | TC29SQNU | Sequence number |
| (37) | BITSTRING | 3 | TC29SQRH | Request Header |
| (3A) | BITSTRING | 5 | TC29SQRU | First 5 bytes of Request RU |
| (3F) | BITSTRING | 9 | (0) | Last Response sent slu-to-plu |
| (3F) | BITSTRING | 2 | TC29SPNU | Sequence Number |
| (41) | BITSTRING | 2 | TC29SPRH | First 2 bytes of Request Header |
| (43) | BITSTRING | 5 | TC29SPRU | First 5 bytes of Response RU |
| SLU-to-PLU data - Expedited Flow information | | | | |
| (48) | BITSTRING | 19 | (0) | slu-to-plu Expedited Flow info |
| (48) | BITSTRING | 10 | (0) | Last Expedited request sent |
| (48) | BITSTRING | 2 | TC29SXQN | Sequence number |
| (4A) | BITSTRING | 3 | TC29SXQH | request Header |
| (4D) | BITSTRING | 5 | TC29SXQU | First 5 bytes of request RU |
| (52) | BITSTRING | 9 | (0) | Last expedited response sent |
| (52) | BITSTRING | 2 | TC29SXPN | Sequence number |
| (54) | BITSTRING | 2 | TC29SXPH | First 2 bytes of Request Header |
| (56) | BITSTRING | 5 | TC29SXPU | First 5 bytes of Response RU |
| | .1.1 1.11 | | TC29OLEN | ""-DFHTCV29" Overall length of Vector |
| End of assembler section | | | | |

TCX TCA extension for LU6.2

CONTROL BLOCK NAME = DFHTCXDS
 DESCRIPTIVE NAME = CICS TCA Extension For LU6.2
 FUNCTION =
 This DSECT defines the Process Initialization Parameters (PIP)
 and Transaction Program Name (TPN) used by EXEC CICS
 CONNECT PROCESS and EXTRACT PROCESS for passing additional data
 on LU6.2 attaches.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (0) | | | DFHTCXDS | ' |
| (0) | FULLWORD | 4 | | STGE ACNTG CONTROL DATA |
| (4) | ADDRESS | 4 | | STGE ACNTG CHAIN ADDRESS |
| (8) | HALFWORD | 2 | TCAXPIPL | PIP LENGTH |
| (A) | CHARACTER | 1 | TCAXTPNL | TPN LENGTH |
| (B) | CHARACTER | 64 | TCAXTPN (0) | TPN |
| (0) | FULLWORD | 4 | TCAXPIP (0) | PIP DATA |
| (0) | CHARACTER | 8 | TCAXMODN (0) | MODENAME |
| |11 | | TCAXGETL | "TCAXTPN-TCAXPIPL" PREFIX LENGTH FOR GETMAIN |

TDCI Transient data control intervals

MODULE NAME = DFHTDCI
 DESCRIPTIVE NAME = Transient Data Control Intervals
 CICS/ESA AP Domain

FUNCTION =

Copybook DFHTDCI provides dsect DFHTDCI which describes

1. the TD control record for Control Interval 0
2. the queue control record for Control Interval m where m > 0
3. the record definition field; i.e. the VSAM RDF
4. the control interval definition field; i.e. the VSAM CIDF

Each control interval on the intrapartition data set is managed according to VSAM rules; i.e. the format is

1. n records where n >= 1; the first record is either the TD control record or a queue control record
2. free space
3. n record definition fields
4. the control interval definition field

LIFETIME =

The lifetime of the control blocks is essentially that of the intrapartition data set.

STORAGE CLASS =

Not applicable.

LOCATION =

Not applicable.

INNER CONTROL BLOCKS =

There are no inner control blocks.

NOTES :

DEPENDENCIES =

S/370

RESTRICTIONS =

There are no restrictions.

MODULE TYPE =

Control block definition.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--|
| (0) | | | DFHTDCI | TD-VSAM CONTROL INT'VAL MAP |
|  | .... .. |  | TDFSTCI | *** MAP OF FIRST CI OF DATA SET |
| (0) | CHARACTER | 10 | TDID | ID TO BE CHECKED WHEN RESTARTING. |
| (A) | HALFWORD | 2 | TDNUMCI | NUMBER OF CIS USED TO SIZE CI BIT MAP. |
| (C) | | 4 | TDDATED | DATE INFO FROM CSAJYDP |
| (10) | FULLWORD | 4 | TDRESRV (3) | RESERVED |
|  | .... .. |  | TDCHREC | *** |
| (0) | CHARACTER | 4 | TDCHDI | CHAIN RECORD DESTID |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------|-----------|-----|------------|--|
| (4) | FULLWORD | 4 | TDCHFC | CHAIN RECORD FORWARD CHAIN |
| (8) | CHARACTER | 8 | TDCHCLK | CHAIN RECORD CONTROL INTERVAL GENERATION ID |
| | ...1 | | TDCHL | ""-TDCHREC" CHAIN RECORD LENGTH |
| DATA RECORDS AND FREE SPACE | | | | |
| | | | | |
| | | | | |
| (10) | CHARACTER | 3 | TDRDF (0) | RECORD DEFINITION FIELD |
| (10) | BITSTRING | 1 | TDCF | CONTROL FIELD (FLAG BYTE) |
| FLAG BYTE VALUES: | | | | |
|  | .... .... |  | TDRSINGL | "X'00" RDF GIVES LENGTH OF SINGLE RECORD. |
| (11) | CHARACTER | 2 | TDLNREC | LENGTH OF RECORD |
| |11 | | TDRDFLN | ""-TDRDF" LENGTH OF RDF |
| (13) | CHARACTER | 4 | TDCIDF (0) | CI DEFINITION FIELD |
| (13) | CHARACTER | 2 | TDOUS | OFFSET OF UNUSED SPACE |
| (15) | CHARACTER | 2 | TDLUS | LENGTH OF UNUSED SPACE (L'CI-L'(CIDF+RDFS)-TDOUS)) |
| |1.. | | TDCIDFLN | ""-TDCIDF" LENGTH OF CIDF |
| | ...1 .111 | | TDCIEND | "" END OF CI |

TDIA Transient data input area

MODULE NAME = DFHTDIPS
 DESCRIPTIVE NAME = Transient Data Input Area
 CICS/ESA AP Domain

FUNCTION =
 Copybook DFHTDIPS provides structure DFHTDIA.
 DFHTDIA describes the format of Transient Data
 Input Areas (TDIAs) as used by CICS, each TDIA
 consists of a header, the description of which
 follows, and application defined data.

LIFETIME =
 TDIA's are allocated to hold data passed from
 Transient Data for
 EXEC CICS READQ TD QUEUE(...) SET(...)
 TDIA's (if allocated) are freed, at latest, at
 task termination.
 No more than one TDIA is allocated to a task.

STORAGE CLASS =
 TDIA's are allocated from either the USER24 or the
 USER31 task subpool.

LOCATION =
 The TDIA is addressed from TCAIDAA in the TCA.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|---------------------------|
| (0) | STRUCTURE | * | DFHTDIA | Transient Data Input Area |
| (0) | CHARACTER | 16 | TDIA_PREFIX | - prefix |
| (0) | HALFWORD | 2 | TDIA_LENGTH | - length |
| (2) | CHARACTER | 1 | TDIA_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | TDIA_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | TDIA_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | TDIA_BLOCK | - value - 'TDIA ' |
| (10) | CHARACTER | * | TDIA_DATA | - application data |

TDOA Transient data output area

MODULE NAME = DFHTDOPS
 DESCRIPTIVE NAME = CICS/MVS AP Domain
 Transient Data Output Area

FUNCTION =
 Copybook DFHTDOPS provides structure DFHTDOA.
 DFHTDOA describes the format of Transient Data
 Output Areas (TDOAs) as used by CICS. Each TDOA
 consists of a header, the description of which
 follows, and application defined data.

LIFETIME =
 TDOAs may be allocated to hold data passed to
 Transient Data for
 DFHTD TYPE=PUT,DESTID=...
 however this is not essential.
 TDOAs (if allocated) are freed, at latest, at
 task termination.

STORAGE CLASS =
 TDOAs are allocated from CLASS=TRANSDATA storage,
 i.e. from task local AMODE(24) storage.

LOCATION =
 Application defined.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :

DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------|
| (0) | STRUCTURE | * | DFHTDOA | Transient Data Output Area |
| (0) | CHARACTER | 8 | TDOAPFX1 | - storage accounting prefix |
| (0) | BITSTRING | 1 | TDOASCI | - class |
| (1) | BITSTRING | 1 | TDOASFI | - format |
| (2) | HALFWORD | 2 | TDOASAL | - length |
| (4) | ADDRESS | 4 | TDOASCA | - chain |
| (8) | CHARACTER | 4 | TDOAPFX2 | - variable record prefix |
| (8) | HALFWORD | 2 | TDOAVRL | - LL |
| (A) | HALFWORD | 2 | TDOAVBB | - BB |
| (C) | CHARACTER | * | TDOADBA | - data, length in TDOAVRL |

TDST Transient data static storage

MODULE NAME = DFHTDSPS
 DESCRIPTIVE NAME = Transient Data Static Storage.
 CICS/ESA AP Domain

FUNCTION =
 Copybook DFHTDSPS provides structure DFHTDST.
 DFHTDST describes Transient Data Static Storage
 (TDST), only one TDST is allocated.

LIFETIME =
 The lifetime of the control block is essentially
 that of CICS.

STORAGE CLASS =
 The control block is located in storage allocated
 from the DFHTDG31 subpool.

LOCATION =
 The TDST is located from the CSA.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 TRANSIENT DATA STATIC STORAGE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------------------|---|
| (0) | STRUCTURE | 216 | DFHTDST | |
| (0) | CHARACTER | 16 | TDST_PREFIX | prefix |
| (0) | HALFWORD | 2 | TDST_LENGTH | - length |
| (2) | CHARACTER | 1 | TDST_ARROW | - value - '>' |
| (3) | CHARACTER | 3 | TDST_DFH | - value - 'DFH' |
| (6) | CHARACTER | 2 | TDST_DOMID | - value - 'TD' |
| (8) | CHARACTER | 8 | TDST_BLOCK | - value - 'TDST ' |
| (10) | CHARACTER | 12 | TDST_ENTRIES | entry points |
| (10) | ADDRESS | 4 | TDST_TDANA | - TDA - extrapartition ... |
| (14) | ADDRESS | 4 | TDST_TDBNA | - TDB - intrapartition |
| (18) | ADDRESS | 4 | TDST_TDRM | - TD recovery manager |
| (1C) | CHARACTER | 72 | TDST_ETOKENS | subpool tokens |
| (1C) | CHARACTER | 8 | TDST_G24 | - general use - AMODE 24 |
| (24) | CHARACTER | 8 | TDST_G31 | - general use - AMODE 31 |
| (2C) | CHARACTER | 8 | TDST_SDS | - real SDSCI - AMODE 24 - 4 DCTE types - AMODE 31 |
| (34) | CHARACTER | 8 | TDST_EXTRA_ DCTE_STG_SUBPOOL | |
| (3C) | CHARACTER | 8 | TDST_INTRA_ DCTE_STG_SUBPOOL | |
| (44) | CHARACTER | 8 | TDST_INDIR_ DCTE_STG_SUBPOOL | |
| (4C) | CHARACTER | 8 | TDST_REMOTE_ DCTE_STG_SUBPOOL | |
| (54) | CHARACTER | 8 | TDST_IOB | - specific use - I/O buffers |
| (5C) | CHARACTER | 8 | TDST_WCB | - specific use - MWCB pool |
| (64) | CHARACTER | 16 | TDST_GENBLKS | general control blocks |
| (64) | ADDRESS | 4 | TDST_MBCA_P | - A(buffer common area) |
| (68) | ADDRESS | 4 | TDST_MRCA_P | - A(string common area) |
| (6C) | ADDRESS | 4 | * | - reserved |
| (70) | ADDRESS | 4 | * | - reserved |
| (74) | CHARACTER | 16 | TDST_SPEBLKS | specific control blocks |
| (74) | ADDRESS | 4 | TDST_DCT1_P | - A(first DCTE) |
| (78) | ADDRESS | 4 | TDST_SDS1_P | - A(first SDSCI) |
| (7C) | ADDRESS | 4 | TDST_CXRF_P | - A(DCTE for CXRF) |
| (80) | ADDRESS | 4 | * | - reserved |
| (84) | CHARACTER | 4 | TDST_STATUS | TD status |
| (84) | CHARACTER | 1 | TDSTFLG0 | - DCT contains ... |
| | | | TDSTNTRA | - intrapartition |
| | | | TDSTLREC | - logical recovery |
| | | | TDSTPREC | - physical recovery |
| | | | * | - reserved |
| | | | TDSTXTRA | - extrapartition |
| | | | TDSTOPIN | - OPEN=INITIAL |
| | | | TDSTNDIR | - indirect |
| | | | TDSTUSER | - entries that need Add_User * |
| (85) | CHARACTER | 1 | TDSTFLG1 | - TD start up is ... |
| | | | TDSTCOLD | - cold |
| | | | TDSTWARM | - warm |
| | | | TDSTEMER | - emergency |
| | | | TDSTINOP | - DFHINTRA opened |
| | | | TDST_CLOSED_ FOR_REC | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|--------------------------------------|
| |1.. | | TDST_COLD_ IN_PROGRESS | TD closed, warm keypointing |
| |1. | | TDST_CLEAR_ INTRA_QUEUES | cold start in progress |
| |1 | | TDFULLMSG | DCT=EMPTY reqd - TD0245 issued ? |
| (86) | CHARACTER | 1 | TDSTFLG2 | - reserved |
| (86) | BITSTRING | 1 | * | - reserved |
| (87) | CHARACTER | 1 | TDSTFLG3 | - reserved |
| (87) | BITSTRING | 1 | * | - reserved |
| (88) | CHARACTER | 16 | TDST_TD_INIT | TD initialization |
| (88) | CHARACTER | 4 | TDST_ECB | - ECB |
| | 1... | | TDST_DCT_INST | - All DCTs installed |
| | .1.. | | TDST_POST | - (CICS) wait/post bit |
| (88) | BITSTRING | 2 | * | |
| (8B) | CHARACTER | 1 | TDST_RESP | - return code |
| | 1... | | TDST_RESP_ DISASTER | - disaster |
| | .1.. | | TDST_RESP_ INVALID | - invalid |
| | ..1. | | TDST_RESP_ EXCEPTION | - exception |
| | ...1 1111 | | * | - reserved |
| (8C) | CHARACTER | 12 | TDST_SRC | - suspended request chain |
| (8C) | ADDRESS | 4 | TDST_TCA_P | - A(owning TCA) or 0 |
| (90) | ADDRESS | 4 | TDST_MWCB_P | - A(first MWCB) or 0 |
| (94) | CHARACTER | 4 | * | - remove info PLX msg |
| (98) | CHARACTER | 48 | TDST_RECOVERY_ DATA | Data associated with RM |
| (98) | CHARACTER | 8 | TDST_TDUA_ STG_SUBPOOL | |
| (A0) | CHARACTER | 8 | TDST_TDQUB_ STG_SUBPOOL | Stg subpool token |
| (A8) | CHARACTER | 8 | TDST_TDCUB_ STG_SUBPOOL | Stg subpool token |
| (B0) | CHARACTER | 8 | * | Stg subpool token |
| (B0) | ADDRESS | 4 | TDST_TDUA_ FIRST | TDUA chain head |
| (B4) | ADDRESS | 4 | TDST_TDUA_ LAST | First TDUA |
| (B8) | ADDRESS | 4 | TDST_NQ_ POOL_TOKEN | Last TDUA |
| (BC) | CHARACTER | 8 | TDST_LAST_ CLEAR_TIME | NQ pool token |
| (C4) | CHARACTER | 4 | * | Last time DCT=xx,EMPTY was specified |
| (C8) | CHARACTER | 4 | TDST_DIRECTORY_ TOKEN | Reserved |
| (CC) | FULLWORD | 4 | TDST_DCTE_ INDIRECTS | Dir Manager token |
| (D0) | ADDRESS | 4 | TDST_QR_ TCB | Indirect DCTEs count |
| (D8) | CHARACTER | | * | Address QR TCB |

TDUE Transient data EXEC parameter list

CONTROL BLOCK NAME = DFHTDUEC
DESCRIPTIVE NAME = CICS EXEC argument list for Transient
Data user exits.

Although provided in a general library, DFHTDUEC is not
to be used as a general programming interface. Refer to
product documentation to determine intended usage.

The following fields are part of the Product-sensitive
Programming Interface.

TD_ADDR0
TD_ADDR1
TD_ADDR2
TD_ADDR3
TD_ADDR4
TD_ADDR5
TD_ADDR6
TD_ADDR7
TD_GROUP
TD_FUNCT
TD_BITS1
TD_EIDOPT5
TD_EIDOPT6
TD_EIDOPT7
TD_QUEUE
TD_WRITEQ_QUEUE
TD_READQ_QUEUE
TD_DELETEQ_QUEUE
TD_READQ_SET
TD_READQ_INT0
TD_WRITEQ_FROM
TD_LENGTH
TD_WRITEQ_LENGTH
TD_READQ_LENGTH
TD_SYSID
TD_WRITEQ_SYSID
TD_READQ_SYSID
TD_DELETEQ_SYSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2
form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter
List are product sensitive and may vary between CICS
releases.

FUNCTION =

To define the EXEC parameter list for Transient Data
requests, for use by global user exit programs at exit
points XTDEREQ and XTDEREQC.

On entry to the XTDEREQ and XTDEREQC User Exits, the EXEC
parameter list is pointed to by UEPCPLPS.

The EXEC parameter list for Transient Data consists of
eight addresses.

The eight addresses are defined by TD_ADDR0 to TD_ADDR7.

This DSECT defines these addresses and the areas that
they point to.

On entry to the XTDEREQ and XTDEREQC User Exits, the copy
of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
is pointed to by UEPRESP and the copy of EIBRESP2 is
pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,
EIBRESP and EIBRESP2 used by Transient Data.

LIFETIME = Lifetime of the TD command request

STORAGE CLASS = As the storage being mapped is the translated
source in the user's application program, the
storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.

(2) Fields copied from the EIB are addressed by
UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between
XTDEREQ and XTDEREQC is addressed by UEPTDOK.

INNER CONTROL BLOCKS =

TD_ADDR_LIST declares the EXEC addresses.

TD_EID defines the EID pointed to by TD_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.

For example, address 1 is of the TD QUEUE name for all TD commands, whereas the address 2 is of the FROM data area on WRITEQ commands, the SET address or INTO data area for READQ commands, and is not valid for DELETEQ commands.

The existence bits in the EID component (TD_BITS1) specify those addresses that are valid, and the flagword bits (TD_EIDOPT5 - TD_EIDOPT7) specify the keywords that were given in the EXEC CICS TD command.

Therefore, you can deduce the useage of each address by testing these bits in conjunction with the command function(TD_FUNCT).

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------|-----------|-----|--------------|----------------------------------|
| (0) | STRUCTURE | 32 | TD_ADDR_LIST | TD_ADDR_LIST consists of the EID |
| (0) | ADDRESS | 4 | TD_ADDR0 | QUEUE name |
| (4) | ADDRESS | 4 | TD_ADDR1 | FROM data area (WRITEQ) |
| (8) | ADDRESS | 4 | TD_ADDR2 | |
| INTO data area (READQ) | | | | |
| SET address (READQ) | | | | |
| (C) | ADDRESS | 4 | TD_ADDR3 | LENGTH value |
| (10) | ADDRESS | 4 | TD_ADDR4 | Reserved |
| (14) | ADDRESS | 4 | TD_ADDR5 | Reserved |
| (18) | ADDRESS | 4 | TD_ADDR6 | Reserved |
| (1C) | ADDRESS | 4 | TD_ADDR7 | SYSID |

TD_EID (addressed by TD_ADDR0) gives the command function, and contains the existence and flagword bits.

Note: Equates for TD_GROUP, TD_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------------|------------------|
| (0) | STRUCTURE | 8 | TD_EID | |
| (0) | CHARACTER | 1 | TD_GROUP | '08'X for TD |
| (1) | CHARACTER | 1 | TD_FUNCT | '02'X for WRITEQ |
| '04'X for READQ | | | | |
| '06'X for DELETEQ | | | | |
| The existence bits (TD_BITS1) specify the parameters that are valid for this command. | | | | |
| For example, TD_EXIST7 set on indicates that TD_ADDR7 is valid, meaning that it addresses a SYSID value. | | | | |
| TD_ADDR0 is always valid and has no existence bit. | | | | |
| TD_EXIST3 may be modified by a user exit program invoked for a READQ command with the SET option. | | | | |
| TD_EXIST7 may be modified by a user exit program invoked for any TD request. | | | | |
| None of the other bits may be modified. | | | | |
| (2) | BITSTRING | 1 | TD_BITS1 | |
| | | | TD_EXIST1 | |
| | | | TD_QUEUE_V | |
| | | | TD_WRITEQ_QUEUE_V | |
| | | | TD_READQ_QUEUE_V | |
| | | | TD_DELETEQ_QUEUE_V | |
| | | | TD_EXIST2 | |
| | | | TD_WRITEQ_FROM_V | |
| | | | TD_READQ_SET_INT0_V | |
| | | | TD_EXIST3 | |
| | | | TD_LENGTH_V | |
| | | | TD_WRITEQ_LENGTH_V | |
| | | | TD_READQ_LENGTH_V | |
| | | | * | Reserved |
| | | | TD_EXIST7 | |
| | | | TD_SYSID_V | |
| | | | TD_WRITEQ_SYSID_V | |
| | | | TD_READQ_SYSID_V | |
| | | | TD_DELETEQ_SYSID_V | |
| | | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------------------------------|----------------------|
| (3) | BITSTRING | 2 | * | Reserved |
| <p>The next 3 bytes (TD_EIDOPT5 - TD_EIDOPT7) are the flagword bits. A user exit program at XTDEREQ can set the TD_READQ_NOSUSPEND_X bit for all READQ requests, and may test (but may NOT modify) the TD_READQ_SET_X bit for all READQ requests. These bits have no meaning for WRITEQ or DELETEQ commands.</p> | | | | |
| (5) | BITSTRING | 1 | TD_EIDOPT5 1111 111. .... ...1 | Reserved |
| (6) | BITSTRING | 1 | TD_READQ_SET_X | SET specified. |
| (6) | BITSTRING | 1 | TD_EIDOPT6 * | Reserved |
| (7) | BITSTRING | 1 | TD_EIDOPT7 * | Reserved |
| | | | TD_READQ_NOSUSPEND_X | NOSUSPEND specified. |
| | | | ...1 1111 | Reserved |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TD_ADDR1 - TD_ADDR7 in TD_ADDR_LIST.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 8 | TD_DATA1 | |
| (0) | CHARACTER | 8 | TD_QUEUE | the QUEUE name |
| (0) | CHARACTER | 8 | TD_WRITEQ_QUEUE | |
| (0) | CHARACTER | 8 | TD_READQ_QUEUE | |
| (0) | CHARACTER | 8 | TD_DELETEQ_QUEUE | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|-----------------|
| (0) | STRUCTURE | 4 | TD_DATA2 | |
| (0) | ADDRESS | 4 | TD_READQ_SET | the SET address |
| (0) | CHARACTER | * | TD_READQ_INT0 | the INTO area |
| (0) | CHARACTER | * | TD_WRITEQ_FROM | the FROM area |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-----------------|
| (0) | STRUCTURE | 2 | TD_DATA3 | |
| (0) | HALFWORD | 2 | TD_LENGTH | the data LENGTH |
| (0) | HALFWORD | 2 | TD_WRITEQ_LENGTH | |
| (0) | HALFWORD | 2 | TD_READQ_LENGTH | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 4 | TD_DATA7 | |
| (0) | CHARACTER | 4 | TD_SYSID | the SYSID name |
| (0) | CHARACTER | 4 | TD_WRITEQ_SYSID | |
| (0) | CHARACTER | 4 | TD_READQ_SYSID | |
| (0) | CHARACTER | 4 | TD_DELETEQ_SYSID | |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|-----------------------|--|
| 1 | HEX | 08 | TD_TRANDATA_GROUP | |
| Equates for TD_ FUNCT values. | | | | |
| 1 | HEX | 02 | TD_WRITEQ | Writeq |
| 1 | HEX | 04 | TD_READQ | Readq |
| 1 | HEX | 06 | TD_DELETEQ | Deleteq |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Transient Data. | | | | |
| 1 | HEX | 00 | TD_OK_EIBRCODE | |
| 1 | HEX | 01 | TD_QZERO_EIBRCODE | |
| 1 | HEX | 02 | TD_QIDERR_EIBRCODE | |
| 1 | HEX | 04 | TD_IOERR_EIBRCODE | |
| 1 | HEX | 08 | TD_NOTOPEN_EIBRCODE | |
| 1 | HEX | 10 | TD_NOSPACE_EIBRCODE | |
| 1 | HEX | C0 | TD_QBUSY_EIBRCODE | |
| 1 | HEX | D0 | TD_SYSIDERR_EIBRCODE | |
| 1 | HEX | D1 | TD_ISCINVREQ_EIBRCODE | |
| 1 | HEX | D6 | TD_NOTAUTH_EIBRCODE | |
| 1 | HEX | D7 | TD_DISABLED_EIBRCODE | |
| 1 | HEX | E0 | TD_INVREQ_EIBRCODE | |
| 1 | HEX | E1 | TD_LENGERR_EIBRCODE | |
| Equates for EIBRESP values used by Transient Data. | | | | |
| 1 | DECIMAL | 0 | TD_OK_EIBRESP | |
| 1 | DECIMAL | 23 | TD_QZERO_EIBRESP | |
| 1 | DECIMAL | 44 | TD_QIDERR_EIBRESP | |
| 1 | DECIMAL | 17 | TD_IOERR_EIBRESP | |
| 1 | DECIMAL | 19 | TD_NOTOPEN_EIBRESP | |
| 1 | DECIMAL | 18 | TD_NOSPACE_EIBRESP | |
| 1 | DECIMAL | 25 | TD_QBUSY_EIBRESP | |
| 1 | DECIMAL | 53 | TD_SYSIDERR_EIBRESP | |
| 1 | DECIMAL | 54 | TD_ISCINVREQ_EIBRESP | |
| 1 | DECIMAL | 70 | TD_NOTAUTH_EIBRESP | |
| 1 | DECIMAL | 84 | TD_DISABLED_EIBRESP | |
| 1 | DECIMAL | 16 | TD_INVREQ_EIBRESP | |
| 1 | DECIMAL | 22 | TD_LENGERR_EIBRESP | |
| Equates for EIBRESP2 values used by Transient Data. | | | | |
| 1 | DECIMAL | 0 | TD_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 101 | TD_NOTAUTH_EIBRESP2 | NOTAUTH *-*-*-*-* *-*-*-* *-* End of General Use *-* *-* Programming Interface *-* *-*-*-*-* *-*-*-* *-* |

TEPCA TEP commarea mapper and descriptor

MACRO NAME = DFHTEPCA
 DESCRIPTIVE NAME = CICS TEP commarea mapper and descriptor
 FUNCTION =

This macro provides a DSECT description and a storage
 mapper for the terminal error program (TEP) commarea.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

See OPERANDS sections.

MODULE TYPE = Executable macro

Meaning of permissible TYPE operands:

DSECT

Build a DSECT named DFHTEPCA

STORAGE

If a DSECT has already been built, then define
 a storage area to hold DFHTEPCA;
 otherwise, build a storage area using the
 named DSECT fields.

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|-----------------------------------|
| | | | DFHTEPCA | |
| Invocation descriptor. - COMMAREA for the TEP user replaceable module | | | | |
| (0) | BITSTRING | 1 | TEPCALDS | Local descriptor |
| (1) | BITSTRING | 2 | TEPCAGDS | Global descriptor |
| (3) | BITSTRING | 1 | | Reserved |
| Address of control blocks required by the TEP | | | | |
| (4) | ADDRESS | 4 | TEPCATCA | Address of the TACLE |
| (8) | ADDRESS | 4 | TEPCECIA | Address of the TCTUA |
| (C) | HALFWORD | 2 | TEPCECIL | Length of the TCTUA |
| Action byte. Initially set to the default actions. User can change these default actions. | | | | |
| (E) | BITSTRING | 1 | TEPCAACT | User actions |
| | 1... .. | | LINEOS | "X'80" Line out of service |
| | .1. | | NONPRGT | "X'40" Non purgable task |
| | ..1. | | TERMOS | "X'20" Terminal out of service |
| | ...1 | | ABENDT | "X'10" Abend transaction |
| | 1... | | ABORTWR | "X'08" Abort write |
| |1.. | | RELTIOA | "X'04" Release TIOA |
| |1. | | SIGNOFF | "X'02" Sign off terminal |
| Useful information. The fields below may be of use to the TEP or TET. All of the following fields are read only. | | | | |
| (F) | CHARACTER | 4 | TEPCATID | Terminal ID |
| (14) | FULLWORD | 4 | TEPCATDB | Current time of day binary |
| | ...1 1... | | TEPCADLN | "*-TEPCALDS" Length of this DSECT |

TIE Task interface element

CONTROL BLOCK NAME = DFHTIEPS
 DESCRIPTIVE NAME = CICS Task Interface Element
 FUNCTION =
 PLX Structure of the TIE, which represents the intersection of a CICS task (TCA) with a named External Resource Manager represented by a Task Related User Exit (TRUE). An enabled TRUE is represented by an User Exit Program Block (EPB). The TIE holds all the task lifetime information which is passed between a CICS task and a named External Resource Manager.
 The TIE belongs to the external resource manager module DFHERM. There can be many TIEs per CICS task. TIEs are chained off the TCA.
 LIFETIME =
 A TIE is acquired the first time a TRUE is invoked by a CICS task. There is one TIE for each TRUE a task invokes. All TIEs for a task are freed by DFHERM at end of task.
 STORAGE CLASS =
 TIEs are getmained from a dedicated subpool for each TRUE. Appended to the end of the TIE, is the Task Local Work Area for the TRUE, whose size is specified when the TRUE is enabled. Hence TIEs for different TRUEs are different sizes. A TIE subpool is located above the line only if the TRUE TRUE is ENABLED specifying LINKEDITMODE, and the TRUE has been linkedited amode(31), meaning that the TRUE is always invoked in amode(31).
 LOCATION =
 The head of the TIE chain is TCATIEBA in the system TCA. Within a TIE is TIECHNA which points to the next TIE on the chain for the task.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 128 | DFHTIEDS | |
| (0) | CHARACTER | 16 | TIE_PREFIX | Standard Prefix |
| (0) | HALFWORD | 2 | TIE_LEN | Length (inc. work area) |
| (2) | CHARACTER | 14 | TIE_EYE | Eyecatcher |
| (2) | CHARACTER | 6 | TIE_EYE1 | '>TIE--' |
| (8) | CHARACTER | 8 | TIE_EYE2 | Resource Manager name |
| (10) | ADDRESS | 4 | TIECHNA | Addr next TIE on TCA chain |
| (14) | ADDRESS | 4 | TIEUTCA | Addr of our TCA (user TCA) |
| (18) | ADDRESS | 4 | TIETRUEP | Addr of current UEPAR plist for TRUE - for dump's use |
| (1C) | ADDRESS | 4 | TIESECBLK | Addr user security block |
| (20) | BITSTRING | 1 | TIESECFLG | Security flags |
| | | | 1... .. | TIENOSEC |
| | | | .1. | * |
| | | | ..1. | TIESEC |
| | | | ...1 1111 | * |
| (21) | BITSTRING | 1 | TIEEISFG | EIS settings for the TRUE |
| | | | 1... .. | TIEVALID |
| | | | .1. | TIEDAT31 |
| | | | ..1. | TIECEDFY |
| | | | ...1 1111 | * |
| (22) | BITSTRING | 1 | TIETRACE | Trace flags for TRUE |
| | | | 1... .. | TIETRLV1 |
| | | | .1. | TIETRLV2 |
| | | | ..11 1111 | * |
| (23) | BITSTRING | 1 | * | Reserved |
| (24) | UNSIGNED | 4 | TIEPBTK | WLM PB token |
| (28) | FULLWORD | 4 | TIERCNT | TRUE recursion count |
| (2C) | ADDRESS | 4 | TIEEPAD | Addr of EIP transfer vector |

Recovery Section of TIE. These fields are shared between DFHERM and DFHERMSP which is the RMI syncpoint processor called by Recovery Manager Domain

| | | | | |
|------|-----------|----|----------|-----------------------------|
| (30) | CHARACTER | 68 | TIERECOV | Recovery section of TIE |
| (30) | CHARACTER | 8 | TIERTKN | Current UOW id |
| (38) | CHARACTER | 27 | TIE62UOW | Network wide (LU 6.2) UOWID |
| (53) | CHARACTER | 1 | * | filler to word align |
| (54) | CHARACTER | 8 | TIEEPN | Resource Manager name |
| (5C) | CHARACTER | 8 | TIERMQUA | Resource manager qualifier |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (64) | BITSTRING | 4 | TIELTOK | Link token returned by RM |
| (68) | ADDRESS | 4 | TIEEPBA | Addr of EPB for this TRUE |
| (6C) | BITSTRING | 1 | TIEFOOTP | Footprints for RM Dom calls |
| | 1... .. | | TIEADDLK | RMLN ADD_LINK issued |
| | .1.. .. | | TIERNEC | Recovery(necessary) set |
| | ..1. | | TIESINGU | Single_updater(yes) set |
| | ...1 | | TIESETTK | Set work token issued |
| | 1... | | TIESETHR | Set heurism(yes) issued |
| |1.. | | TIESETLI | SET_LINK LINK_ID issued |
| |1. | | TIETRABD | True has abended |
| |1 | | * | Reserved |
| (6D) | BITSTRING | 1 | TIESYNCP | TRUE's syncpoint parms |
| | 1... .. | | TIESUPDR | TRUE understands single.. updater protocol |
| | .1.. | | TIEREADO | TRUE understands read-only protocol |
| | ..11 1111 | | * | Reserved |
| (6E) | BITSTRING | 2 | * | Reserved |

TIEFLAGS is the target of UEPFLAGS during RMI execution. It is initialised from the TRUE's interest profile in the EPB (EPBFLAGS). The first byte of TIEFLAGS is reserved for CICS/VS 1.5 compatibility.

| | | | | |
|------|-----------|---|----------|----------------------------|
| (70) | BITSTRING | 4 | TIEFLAGS | TRUE interest profile |
| (70) | BITSTRING | 1 | TIEFLAG0 | Byte 0 |
| (71) | BITSTRING | 1 | TIEFLAG1 | Byte 1 |
| (72) | BITSTRING | 1 | TIEFLAG2 | Byte 2 |
| | 111. | | * | |
| | ...1 | | TIEMFEDF | Interest in EDF |
| | 1... | | * | |
| |1.. | | TIEMCTER | Interest in shutdown |
| |1. | | * | |
| |1 | | TIEMTASK | Interest in task start/end |
| (73) | BITSTRING | 1 | TIEFLAG3 | Byte 3 |
| | 111. | | * | |
| | ...1 | | TIEMSYNC | Interest in Syncpoint |
| | 1... | | * | |
| |1.. | | TIEMAPPL | Interest in API calls |
| |1. | | TIEMSPI | Interest in SPI calls |
| |1 | | * | |

End of Recovery Section

| | | | | |
|------|----------|---|---------|-----------------------------|
| (74) | HALFWORD | 2 | TIEGAL | Global work area length |
| (76) | HALFWORD | 2 | TIETAL | Task Local work area length |
| (78) | ADDRESS | 4 | TIEFREE | Free TIE forward chain |

NOTE: The offset of TIELWAA must not be changed.

| | | | | |
|------|---------|---|---------|----------------|
| (7C) | ADDRESS | 4 | TIELWAA | Address of LWA |
|------|---------|---|---------|----------------|

End of the task Interface Element

| | | | | |
|------|-----------|--|---------|------------|
| (80) | CHARACTER | | TIEENDA | End of TIE |
|------|-----------|--|---------|------------|

Start of TRUE's Task Local Work Area (if one exists)

| | | | | |
|------|-----------|--|--------|---|
| (80) | CHARACTER | | TIELWA | Start of TRUE's work area - must be doubleword aligned. |
|------|-----------|--|--------|---|

Constants

| Len | Type | Value | Name | Description |
|--------|------|-------|----------------------|--|
| 2 | HEX | 2500 | ERMSP_ENTRY | ERMSP entry |
| 2 | HEX | 2501 | ERMSP_EXIT | ERMSP exit |
| 2 | HEX | 2502 | ERMSP_INV_FORMAT | Invalid format |
| 2 | HEX | 2503 | ERMSP_INV_ | Invalid rmro function |
| 2 | HEX | 2504 | RMRO_FUNCTION | |
| | | | ERMSP_INV_ | Invalid rmlk function |
| | | | RMLK_FUNCTION | |
| 2 | HEX | 2505 | ERMSP_RECOVERY | Recovery routine entered |
| 2 | HEX | 2506 | ERMSP_RMWTL_SET_FAIL | SET WORK_TOKEN from ERMSP has failed |
| 2 | HEX | 2507 | ERMSP_RMUWM_ | INQ UOW from ERMSP has failed |
| | | | INQ_UOW_FAIL | |
| 2 | HEX | 2508 | ERMSP_XMAT_ | attach from ERMSP has failed |
| | | | ATTACH_FAIL | |
| 2 | HEX | 2509 | ERMSP_RMI_BEFORE | ERMSP is about to call the RMI |
| 2 | HEX | 2510 | ERMSP_RMI_AFTER | Control has returned to ERMSP from the RMI |
| DFHERM | | | | |
| 2 | HEX | 2520 | ERM_ENTRY | entry trace |
| 2 | HEX | 2521 | ERM_EXIT | exit trace |
| 2 | HEX | 2522 | ERM_ABOUT_ | Passing control to the true |
| | | | TO_CALL_TRUE | |
| 2 | HEX | 2523 | ERM_RETURN_FROM_TRUE | Receiving control back from the TRUE |
| 2 | HEX | 2524 | ERM_RM_NOT_AVAILABLE | TRUE disabled |
| 2 | HEX | 2525 | ERM_ADD_LINK_FAIL | ADD LINK from ERM has failed |
| 2 | HEX | 2526 | ERM_SET_LINK_FAIL | SET LINK from ERM has failed |
| 2 | HEX | 2527 | ERM_RMWTL_SET_FAIL | SET WORK_TOKEN from ERM has failed |
| 2 | HEX | 2528 | ERM_RMUWI_INQ_FAIL | INQ UOW ID from ERM has failed |

| Len | Type | Value | Name | Description |
|----------|------|-------|-------------------------------------|---|
| 2 | HEX | 2529 | ERM_SET_UOW_FAIL | SET UOW from from ERM has failed |
| 2 | HEX | 2530 | ERM_PGEX_ ERROR_BEFORE | PGEX error before calling TRUE |
| 2 | HEX | 2531 | ERM_PGEX_ERROR_AFTER | PGEX error after calling TRUE |
| 2 | HEX | 2532 | ERM_PGEX_ ERROR_RECOV | PGEX error during recovery processing |
| 2 | HEX | 2533 | ERM_RECOVERY_ENTERED | ERM's recovery routine invoked |
| 2 | HEX | 2534 | ERM_CHAIR_MODIFIED | XPCHAIR exit in DFHERM modified handle address |
| <hr/> | | | | |
| DFHRMSY | | | | |
| 2 | HEX | 2540 | RMSY_ENTRY | RMSY entry |
| 2 | HEX | 2541 | RMSY_EXIT | RMSY exit |
| 2 | HEX | 2542 | RMSY_XMIQM_ INQ_TRAN_FAIL | XMIQM from RMSY failed |
| 2 | HEX | 2543 | RMSY_RMUWM_ INQ_UOW_FAIL | RMUWM inq uow from RMSY has failed |
| 2 | HEX | 2544 | RMSY_RMDMM_ INQ_STARTUP_FAIL | RMDM call from RMSY has failed |
| 2 | HEX | 2545 | RMSY_UNEXPECTED_ RMLN_REASON | RMSY received an unexpected reason for an exception response from rmln initiate_rec. |
| 2 | HEX | 2546 | RMSY_BAD_ RMLN_RESPONSE | RMSY received serious error from rmln call |
| 2 | HEX | 2547 | RMSY_RMLN_ TERMINATE_FAIL | Terminate recovery issued by RMSY has failed |
| 2 | HEX | 2548 | RMSY_RMI_BEFORE | RMSY is about to call the RMI |
| 2 | HEX | 2549 | RMSY_RMI_AFTER | Control has returned to RMSY from the RMI |
| <hr/> | | | | |
| DFHERMRS | | | | |
| 2 | HEX | 2560 | ERMRS_ENTRY | ERMRS entry |
| 2 | HEX | 2561 | ERMRS_EXIT | ERMRS exit |
| 2 | HEX | 2562 | ERMRS_INV_EIP_FUNCTION | ERMRS called for wrong EIP function |
| 2 | HEX | 2563 | ERMRS_INV_FUNCTION | Invalid eiei function |
| 2 | HEX | 2564 | ERMRS_RMLN_ START_LINK_FAIL | RMLN start link browse from ERMRS failed |
| 2 | HEX | 2565 | ERMRS_RMLN_ GET_NEXT_LINK_FAIL | RMLN getnext_link from ERMRS failed |
| 2 | HEX | 2566 | ERMRS_RMLN_ END_LINK_BROWSE_FAIL | RMLN end link browse from ERMRS failed |
| 2 | HEX | 2567 | ERMRS_RECOVERY | Recovery routine entered |
| 2 | HEX | 2568 | ERMRS_RMUWM_ INQ_UOW_FAIL | INQ UOW from ERMRS has failed |
| 2 | HEX | 2569 | ERMRS_UNEXPECTED_ RMLN_REASON | ERMRS received an unexpected reason for an exception response from rmln initiate_rec. |
| 2 | HEX | 2570 | ERMRS_BAD_ RMLN_RESPONSE | ERMRS received serious error from rmln initiate rec. |
| 2 | HEX | 2571 | ERMRS_RMLN_ TERMINATE_FAIL | RMLN terminate recovery from ERMRS failed |
| 2 | HEX | 2572 | ERMRS_RMLN_ SET_MARK_FAIL | RMLN set mark from ERMRS failed |
| 2 | HEX | 2573 | ERMRS_XMAT_ ATTACH_FAIL | attach from ERMRS has failed |

TIOA Terminal input/output area

```

MODULE NAME = DFHTIOA
DESCRIPTIVE NAME = CICS TERMINAL INPUT/OUTPUT AREA
DUAL LANGUAGE DSECT
FUNCTION = DEFINES THE TERMINAL INPUT/OUTPUT AREA
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
REGISTER CONVENTIONS = NOT APPLICABLE
PATCH LABEL = NOT APPLICABLE
MODULE TYPE = DSECT
MODULE SIZE = NOT APPLICABLE
ATTRIBUTES = NOT APPLICABLE
ENTRY POINT = NOT APPLICABLE
PURPOSE = DEFINE THE TERMINAL INPUT/OUTPUT AREA
LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NOT APPLICABLE
CONTROL BLOCKS = NOT APPLICABLE
TABLES = NOT APPLICABLE
MACROS = NONE
The following fields are for customer use:-
TIOATDL TIOAWCI TIOACLRC
TIOALAC TIOADBA

```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 12 | DFHTIOA | DUMMY SECTION - TERMINAL I/O AREA |
| (0) | CHARACTER | 8 | TIOASAA | STORAGE ACCOUNTING AREA |
| (0) | CHARACTER | 2 | * | STORAGE CLASS - TERMINAL |
| (2) | UNSIGNED | 2 | TIOASAL | STORAGE ACCOUNTING AREA LENGTH |
| (4) | ADDRESS | 4 | TIOASCA | CHAIN ADDRESS OF NEXT TERMINAL STORAGE ENTRY FOR THIS TASK |
| (8) | HALFWORD | 2 | TIOATDL | TERMINAL DATA LENGTH |
| (A) | BITSTRING | 1 | TIOAWCI | WRITE CONTROL INDICATOR |
| (B) | CHARACTER | 1 | TIOACLRC | WCC OR CCC CHARACTER |
| (B) | BITSTRING | 1 | TIOALAC | LINE ADDRESS CONTROL |
| (C) | CHARACTER | | TIOADBA | TERMINAL DATA BEGIN ADDRESS |

TMDEL Table manager directory element

CONTROL BLOCK NAME = DFHTMDEL
 DESCRIPTIVE NAME = CICS Table Manager Directory Element
 FUNCTION =
 The table management directory element is a set of pointers that address members of chains of directory elements and a pointer to the corresponding directory segment. SKTFDEA in the table points to the first directory element and DIRGNCHN in each directory element points to its successor. DIRGPCHN points back to the predecessor and is 0 if at the front of the chain

LIFETIME =
 Since directory elements are grouped into directory segments, see the prolog for DFHTMDSG (directory segment) for details about storage allocation.
 Storage for a directory element will last for the duration of a CICS run though, if a table entry is deleted then its corresponding directory element will be marked as reusable and placed on a chain of free directory elements.

STORAGE CLASS =
 Shared storage above the 16M line.

LOCATION =
 SKTFDEA in the scatter table points to the first directory element, and DIRGNCHN in each directory element points to its successor.
 DIRELEMA in a directory segment points to the start of a group of directory elements.
 SKTFRDE in the scatter table points to the first free directory element. Subsequent free directory elements are chained together by the DIROWCHN field in the directory element.

INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 EXTERNAL REFERENCES = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | DIRELEM | Directory element |
| Directory element information | | | | |
| (0) | CHARACTER | 28 | DIREINFO | Directory element info. |
| (0) | ADDRESS | 4 | DIRTEA | Table entry address |
| (4) | ADDRESS | 4 | DIRHSCHN | Hash chain |
| (8) | ADDRESS | 4 | DIROWCHN | Ownership chain |
| (C) | ADDRESS | 4 | DIRPRIME | Ptr. to primary DE. |
| (10) | ADDRESS | 4 | DIRGNCHN | Get next chain pointer |
| (14) | ADDRESS | 4 | DIRGPCHN | Get previous chain ptr |
| (18) | UNSIGNED | 1 | DIRETTC | Table type code |
| (19) | BITSTRING | 1 | DIRSTATS | Status of directory entry |
| | 1... .. | | DIRBFREE | Directory entry is free |
| | .1. | | DIRBTEAQ | DE is quiesced |
| | ..1. | | DIRBFIXD | Table entry free forbidden |
| | ...1 | | * | Reserved |
| | 1... | | * | Reserved |
| |1. | | * | Reserved |
| |1 | | DIRBADD | Uncommitted ADD request |
| |1 | | DIRBDEL | Uncommitted DELETE request |
| (1A) | BITSTRING | 1 | DIRTYPE | Type of entry |
| | 1... .. | | DIRBPRIM | Primary entry |
| | .1. | | DIRBALI | Alias entry |
| | ..1. | | DIRBINDX | Index entry |
| | ...1 1111 | | * | Reserved |
| (1B) | BITSTRING | 1 | * | Reserved |
| Directory entry key | | | | |
| (1C) | CHARACTER | * | DIRKEY | Key of this entry |

TMDSG Table manager directory segment

CONTROL BLOCK NAME = DFHTMDSG
 DESCRIPTIVE NAME = CICS Table Manager Directory Segment.
 FUNCTION =
 The table management directory segment holds a group of directory elements (for each table entry there is a directory element. For a table entry which has aliases, there will be a directory element for each alias).
 Directory elements are grouped together in this way in order to reduce the number of requests for storage allocation. The number of directory elements per directory segment is controlled by TMNDESG in the table manager static storage.
 LIFETIME =
 Storage for a directory segment is acquired when adding a table entry, adding an alias name to an existing table entry, or when adding an entry to a secondary table (ie. a table which contains entries for remote objects). On subsequent additions to the table, storage for a new directory segment is acquired only when there are no free directory elements in the existing segment.
 Once created, directory segments last for the duration of the CICS run. Note that if a table entry is deleted then its directory element is marked as reusable.
 STORAGE CLASS =
 Shared storage above the 16M line.
 LOCATION =
 The first segment is located by SKTDIRSA in the scatter table. Subsequent segments are chained by DIRSGCHN in the directory segments themselves.
 INNER CONTROL BLOCKS = DFHTMDEL (directory element).
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|-------------------------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | * | DIRSEG | Directory segment |
| Standard header | | | | |
| (0) | CHARACTER | 16 | DIRHDR | Standard header |
| (0) | HALFWORD | 2 | DIRLNTH | Total length of table |
| (2) | CHARACTER | 1 | DIRARRW | Eye-catcher part 1: > |
| (3) | CHARACTER | 3 | DIRDFH | Eye-catcher part 2: DFH |
| (6) | CHARACTER | 2 | DIRTM | Eye-catcher part 3: TM |
| (8) | CHARACTER | 8 | DIREYEC | Block id: 'DIRSEG ' |
| Directory segment information | | | | |
| (10) | CHARACTER | 8 | DIRINFO | Directory segment info. |
| (10) | ADDRESS | 4 | DIRSGCHN | Next directory segment ptr. |
| (14) | HALFWORD | 2 | * | Reserved |
| (16) | HALFWORD | 2 | * | Reserved |
| (18) | CHARACTER | 256 | DIRELEMA (*) | Directory elements |

TMELD Table manager read lock block

CONTROL BLOCK NAME = DFHTMELD
 DESCRIPTIVE NAME = CICS - Table Management Read Lock Block.
 FUNCTION =
 The table management read lock block consists of a set of read locks and a count of locks assigned, on primary directory entries. Each time a task uses a locate function, a read lock on the primary directory entry, corresponding to the table entry found, is created by the locate function. A directory entry which has a read lock(s) can not be modified until the lock(s) is(are) released. Read locks are released at task termination or on specific request.
 LIFETIME =
 The initial read lock block is allocated at AP domain transaction initialization, and release in AP domain transaction termination and so a lock block is part of the AP transaction environemnt. TMP will acquire storage for a lock block when a task issues a function that requires a lock on a primary table entry (eg. a locate function). Note, when all locks within a lock block are released, the storage for the lock block is not released but re-initialised, thus making it reusable. If a task should require re-starting, then storage for any lock blocks which are not being used is released. Otherwise, storage for all read lock blocks is released at task termination.
 STORAGE CLASS = CICS storage (CSATCA31/24) above/below the 16M line.
 LOCATION =
 In the TCA, TCARLB is the address of the first read lock block. Further read lock blocks are chained by TMELPTR, which is in the read lock block itself.
 INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (0) | | | DFHTMELD | . |
| (0) | ADDRESS | 4 | TMELPTR | POINTER TO NEXT BLOCK |
| (4) | ADDRESS | 4 | TMENUMRL | NUMBER OF LOCK SLOTS IN BLOCK |
| | 1... | | TMELKSTR | "" START OF LOCK SLOTS |
| (8) | ADDRESS | 4 | TMELOCKG (2) | TABLE MANAGER LOCK |
| (10) | ADDRESS | 4 | TMELOCKF (2) | TABLE MANAGER LOCK |
| (18) | ADDRESS | 4 | TMELOCKE (2) | TABLE MANAGER LOCK |
| (20) | ADDRESS | 4 | TMELOCKD (2) | TABLE MANAGER LOCK |
| (28) | ADDRESS | 4 | TMELOCKC (2) | TABLE MANAGER LOCK |
| (30) | ADDRESS | 4 | TMELOCKB (2) | TABLE MANAGER LOCK |
| (38) | ADDRESS | 4 | TMELOCKA (2) | TABLE MANAGER LOCK |
| (40) | ADDRESS | 4 | TMELOCK9 (2) | TABLE MANAGER LOCK |
| (48) | ADDRESS | 4 | TMELOCK8 (2) | TABLE MANAGER LOCK |
| (50) | ADDRESS | 4 | TMELOCK7 (2) | TABLE MANAGER LOCK |
| (58) | ADDRESS | 4 | TMELOCK6 (2) | TABLE MANAGER LOCK |
| (60) | ADDRESS | 4 | TMELOCK5 (2) | TABLE MANAGER LOCK |
| (68) | ADDRESS | 4 | TMELOCK4 (2) | TABLE MANAGER LOCK |
| (70) | ADDRESS | 4 | TMELOCK3 (2) | TABLE MANAGER LOCK |
| (78) | ADDRESS | 4 | TMELOCK2 (2) | TABLE MANAGER LOCK |
| (80) | ADDRESS | 4 | TMELOCK1 (2) | TABLE MANAGER LOCK |
| | 1... 1... | | TMELKEND | "" END OF LOCK SLOTS |
| | 1... | | TMELKSIZ | "TMELOCK1-TMELOCK2" SIZE OF ONE LOCK SLOT |
| | ...1 | | TMENUMSL | "(TMELKEND-TMELKSTR)/TMELKSIZ" NUMBER OF SLOTS ACCORDING TO DSECT |
| | 1... 1... | | TMELSIZE | ""-DFHTMELD" SIZE OF READ LOCK BLOCK |

TMRQ Table manager parameter list

CONTROL BLOCK NAME = DFHTMRQ
 DESCRIPTIVE NAME = CICS Table Manager Parameter List
 FUNCTION =
 The table management parameter list holds information passed from a calling routine to DFHTMP. It also holds the response code and working storage for DFHTMP.
 LIFETIME =
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS =
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 20 | TMRQLIST | |
| (0) | UNSIGNED | 4 | TMRQTW1 | Trace data |
| (0) | UNSIGNED | 1 | TMRQTR | Request type |
| (1) | BITSTRING | 1 | TMRQRM | Request modifier |
| | 1... .. | | TMRQRMCM | Commit immediately |
| | .1.. .. | | TMRQRMMLL | Local lock operation |
| | ..1. | | TMRQRMNC | Do not copy table entry |
| | ...1 | | TMRQRMNF | Entry storage fixed |
| | 1... | | TMRQNOLK | Do not lock entry |
| |1.. | | TMRQRMCN | Conditional request |
| |1.. | | TMRQRNXB | Get Next Best |
| |1. | | TMRQRMUL | Getnext unlock |
| |1 | | TMRQRMNU | Non-unique entries allowed |
| |1 | | TMRQRBTE | Browse token exists |
| (2) | UNSIGNED | 1 | TMRQTTTC | Table type code |
| (3) | UNSIGNED | 1 | TMRQRC | Response code |
| (4) | ADDRESS | 4 | TMRQKEYP | Address of key |
| (4) | HALFWORD | 2 | TMRQHASH | Initial hash table size |
| (8) | ADDRESS | 4 | TMRQATE | Address of table entry |
| (8) | ADDRESS | 4 | TMRQRLDA | Address of lock data list |
| (8) | HALFWORD | 2 | TMRQKEYL | Key length |
| (A) | HALFWORD | 2 | TMRQMLLN | Max average locate length |
| (C) | ADDRESS | 4 | TMRQALIP | Address of alias name |
| (C) | HALFWORD | 2 | * | Reserved |
| (E) | UNSIGNED | 1 | TMRQTTCP | Primary table type |
| (10) | ADDRESS | 4 | TMRQBRTK | Address of browse tok |
| (10) | HALFWORD | 2 | TMRQTEL | Table entry length |
| (10) | UNSIGNED | 1 | TMRULRC | Reason code (Unlock) |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|------------------------|
| 1 | DECIMAL | 1 | TMRQPCT | PCT entries |
| 1 | DECIMAL | 2 | TMRQPCTR | PCT remote entries |
| 1 | DECIMAL | 3 | TMRQPPT | PPT entries |
| 1 | DECIMAL | 4 | TMRQPFT | PFT entries |
| 1 | DECIMAL | 5 | TMRQFCT | FCT entries |
| 1 | DECIMAL | 6 | TMRQDCT | DCT entries |
| 1 | DECIMAL | 7 | TMRQTCTE | TCT terminal entries |
| 1 | DECIMAL | 8 | TMRQTCTN | TCT skeleton entries |
| 1 | DECIMAL | 9 | TMRQTCTS | TCT system entries |
| 1 | DECIMAL | 10 | TMRQAFCT | AFCT entries |
| 1 | DECIMAL | 11 | TMRQDSN | DSNAME blocks |
| 1 | DECIMAL | 12 | TMRQDSNA | DSNAME alternate index |
| 1 | DECIMAL | 13 | TMRQPRT | PRT entries |
| 1 | DECIMAL | 14 | TMRQTPNT | TPNT entries |
| 1 | DECIMAL | 15 | TMRQTCNT | TCNT entries |
| 1 | DECIMAL | 16 | TMRQAITM | AITM entries |
| 1 | DECIMAL | 17 | TMRQSNT | SNT entries |
| 1 | DECIMAL | 18 | TMRQTCSE | TCSE entries |
| 1 | DECIMAL | 19 | TMRQTCSE | TCSR entries |
| 1 | DECIMAL | 20 | TMRQTCSE | TCSI entries |
| 1 | DECIMAL | 21 | TMRQTCSE | TCSN entries |
| 1 | DECIMAL | 22 | TMRQTCSE | TCTR entries |
| 1 | DECIMAL | 23 | TMRQTCSE | TCSM entries |

| Len | Type | Value | Name | Description |
|-----------------------------|---------|-------|----------|-------------------|
| 1 | DECIMAL | 24 | TMRQTCNR | TCNR entries |
| Request Byte Values | | | | |
| 1 | DECIMAL | 1 | TMRQLOC | Locate |
| 1 | DECIMAL | 2 | TMRQGTN | Get Next |
| 1 | DECIMAL | 3 | TMRQGNA | Get Next Alias |
| 1 | DECIMAL | 4 | TMRQADD | Add |
| 1 | DECIMAL | 5 | TMRQDEL | Delete |
| 1 | DECIMAL | 6 | TMRQALI | Alias |
| 1 | DECIMAL | 7 | TMRQLOK | Lock |
| 1 | DECIMAL | 8 | TMRQULK | Unlock |
| 1 | DECIMAL | 9 | TMRQCRI | Create index |
| 1 | DECIMAL | 10 | TMRQNDX | Index |
| 1 | DECIMAL | 11 | TMRQQUI | Quiesce |
| 1 | DECIMAL | 13 | TMRQDWE | DWE |
| 1 | DECIMAL | 14 | TMRQRST | Reset |
| 1 | DECIMAL | 15 | TMRQUNQ | Unquiesce |
| 1 | DECIMAL | 16 | TMRQGSK | Get secondary key |
| Response Code Values | | | | |
| 1 | DECIMAL | 0 | NORMRESP | Normal response |
| 1 | DECIMAL | 4 | NOTFND | Not found |
| 1 | DECIMAL | 8 | DUPFND | Duplicate found |
| 1 | DECIMAL | 12 | INVREQ | Invalid request |
| 1 | DECIMAL | 16 | TEBUSY | Table entry busy |
| 1 | DECIMAL | 20 | PROTECT | Protected entry |
| 1 | DECIMAL | 24 | RLHELD | Read lock held |
| 1 | DECIMAL | 28 | RLNOTED | Read lock noted |
| 1 | DECIMAL | 32 | NORLHELD | No read lock now |

TMS Table manager static storage area

CONTROL BLOCK NAME = DFHTMSSA
 DESCRIPTIVE NAME = CICS Table Manager Static Storage Area.
 FUNCTION =
 The table management static storage area holds global data for the Table Manager Program. SSATMP in the CSA's static storage area list holds the address of this area.
 LIFETIME =
 It is allocated and initialised to hex zeroes at initialisation time. It has the lifetime of the CICS System.
 STORAGE CLASS =
 CICS Static Storage.
 LOCATION =
 Addressed by SSATMP in the Static Storage Address List.
 INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|------|------------|------------------------|
| (0) | STRUCTURE | 1124 | TMSTATIC | Static storage for TMP |
| (0) | BITSTRING | 1 | * | Reserved |
| (1) | BITSTRING | 2 | * | Reserved |
| (3) | UNSIGNED | 1 | * | Reserved |
| (4) | FULLWORD | 4 | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|---------------|--------------------------------|
| Table types and position in TMATTV array | | | | |
| 1- | Reserved | | | |
| 2- | Reserved | | | |
| 3- | Reserved | | | |
| 4- | PFT | | | |
| 5- | FCT | | | |
| 6- | Reserved | | | |
| 7- | TCTE | | | |
| 8- | TCTN | | | |
| 9- | TCTS | | | |
| 10- | AFCT | | | |
| 11- | DSN | | | |
| 12- | DSNA | | | |
| 13- | PRT | | | |
| 14- | Reserved | | | |
| 15- | TCNT | | | |
| 16- | AITM | | | |
| 17- | SNT | | | |
| 18- | TCSE | | | |
| 19- | TCSR | | | |
| 20- | TCSI | | | |
| 21- | TCSN | | | |
| 22- | TCTR | | | |
| 23- | TCSM | | | |
| 24- | TCNR | | | |
| (8) | CHARACTER | 32 | TMATTV (24) | Array of table info |
| (8) | ADDRESS | 4 | TMASKT | Address of scatter table |
| (C) | HALFWORD | 2 | TMNDESG | # elements per segment |
| (E) | HALFWORD | 2 | * | Reserved |
| (10) | FULLWORD | 4 | TMHSIZE | HASH table size |
| (14) | FULLWORD | 4 | TMCOUNT | Num. of entries |
| (18) | FULLWORD | 4 | TMTRIGR | Trigger value to rehash |
| (1C) | BITSTRING | 2 | TMBITS | Miscellaneous flags |
| | 1... | | TMREHASH | Re-hash of table required |
| (1C) | BITSTRING | 1 | * | Reserved |
| (1E) | BITSTRING | 2 | * | Reserved |
| (20) | ADDRESS | 4 | TMABORD | Alphabetical ordering position |
| (24) | FULLWORD | 4 | TMRNGPOS | Range index |
| (308) | ADDRESS | 4 | TMENQHLD | TCA address of enqueuer |
| (30C) | ADDRESS | 4 | TMQEQHLD | Quiesce enqueue chain ptr. |
| (310) | ADDRESS | 4 | * | Reserved |
| (314) | ADDRESS | 4 | TMCLHLD | Change list head of chain |
| (318) | ADDRESS | 4 | TMCLLAST | Change list latest element |
| Global lock block | | | | |
| (31C) | CHARACTER | 132 | TMGRLSEG | First segment global locks |
| (31C) | ADDRESS | 4 | TMGLCHPT | Pointer to next block |
| (320) | CHARACTER | 8 | TMGLLOCK (16) | First segment global locks |
| (320) | ADDRESS | 4 | TMGLVALU | Value of lock |
| (324) | UNSIGNED | 4 | TMGLCNT | Count of locks |
| Last rehash time for each table | | | | |
| (3A0) | BITSTRING | 8 | TMRHTIME (24) | |
| (460) | ADDRESS | 4 | TMLOCK_TOKEN | Lock token for TM |
| (464) | CHARACTER | | TMSTATLN | Define end of block |

TMSKT Table manager scatter table

CONTROL BLOCK NAME = DFHTMSKT
 DESCRIPTIVE NAME = CICS Table Manager Scatter Table.
 FUNCTION =
 The table management scatter table holds pointers to directory elements for use by the Table Manager Program. TMSKTx in the table management static storage area holds the address of this area.
 LIFETIME =
 It exists for the duration of the CICS System.
 Storage for the scatter table (for each CICS table supported by the table manager) is allocated at CICS initialisation. However, the table manager reserves the right to dynamically rehash a scatter table when TMCOUNT (the number of table entries) is greater than or equal to TMTRIGR (trigger value for rehash). During rehash, storage (above the 16M line) is acquired for the new hash table, and storage used by the old hash table is released.
 STORAGE CLASS =
 Shared storage above the 16M line.
 LOCATION =
 Pointed to by TMSKTx in the table manager static storage.
 INNER CONTROL BLOCKS = None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | * | SKTTBLE | Scatter table |
| Standard header | | | | |
| (0) | CHARACTER | 20 | SKTHDR | Standard header |
| (0) | FULLWORD | 4 | SKTLNTH | Total length of table |
| (4) | CHARACTER | 1 | SKTARRW | Eye-catcher part 1: > |
| (5) | CHARACTER | 3 | SKTDFH | Eye-catcher part 2: DFH |
| (8) | CHARACTER | 2 | SKTTM | Eye-catcher part 3: TM |
| (A) | CHARACTER | 8 | SKTEYEC | Block id: 'SCATTER ' |
| (12) | HALFWORD | 2 | * | Reserved |
| Scatter table information | | | | |
| (14) | CHARACTER | 28 | SKTINFO | Scatter table information |
| (14) | BITSTRING | 1 | SKTFLAG1 | Flag byte 1 |
| | 1... .. | | SKTNUEA | Non-unique entries allowed |
| | .111 1111 | | * | Reserved |
| (15) | BITSTRING | 1 | SKTFLAG2 | Flag byte 2 |
| (15) | BITSTRING | 1 | * | Reserved |
| (16) | UNSIGNED | 1 | SKTTTC | Table type code |
| (17) | UNSIGNED | 1 | SKTTTCP | Table type code for primary |
| (18) | HALFWORD | 2 | SKTDELN | Directory entry length |
| (1A) | HALFWORD | 2 | SKTKEYLN | Length of key |
| (1C) | FULLWORD | 4 | SKTMAXN | Maximum number of entries |
| (20) | ADDRESS | 4 | SKTDIRSA | First directory segment ptr |
| (24) | ADDRESS | 4 | SKTFDEA | First directory element ptr |
| (28) | ADDRESS | 4 | SKTFRDE | First free dir element ptr |
| (2C) | FULLWORD | 4 | SKTNUMDS | # directory segments |
| (30) | CHARACTER | 16 | SKTRANGE | GetNext Range-Table |
| (30) | FULLWORD | 4 | SKTRNG_NUM | Number of ranges |
| (34) | ADDRESS | 4 | SKTRNG_ADDR | Address of Range Table |
| (38) | FULLWORD | 4 | SKTRNG_SIZE | optimal size of rngs |
| (3C) | FULLWORD | 4 | SKTRNG_USED | Num of slots in use |
| Scatter table pointers | | | | |
| (40) | ADDRESS | 4 | SKTDIREA (*) | Hash table ptr to dir elems |
| Range table pointers | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-----------------------|
| (0) | STRUCTURE | * | SKTRANGES | Range Table |
| (0) | CHARACTER | 8 | SKTRNG_HEAD | Buffer to spot errors |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-----------------------|
| (8) | CHARACTER | 8 | SKTRNGE (*) | Get Next Range Table |
| (8) | FULLWORD | 4 | SKTRNG_COUNT | Num of elems in rng-1 |
| (C) | ADDRESS | 4 | SKTRNG_PTR | Pointer to rng start |

TPE Terminal partition extension

MODULE NAME = DFHTPE
 DESCRIPTIVE NAME = CICS TERMINAL PARTITION EXTENSION
 DUAL LANGUAGE DSECT
 FUNCTION = DEFINES THE TCTTE PARTITION EXTENSION. CHAINED OFF
 THE TCTTE BMS EXTENSION IF THE TERMINAL SUPPORTS
 PARTITIONS. BUILT BY THE DFHTCTPR MACRO.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NOT APPLICABLE
 MODULE TYPE = DSECT
 MODULE SIZE = NOT APPLICABLE
 ATTRIBUTES = DSECT
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = DEFINE THE TCTTE PARTITION EXTENSION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NONE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NOT APPLICABLE
 MACROS = NONE
 PLSSTART

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|---|
| (0) | STRUCTURE | 20 | DFHTPE | DUMMY SECTION - TCT PARTITION EXTENSION |
| (0) | CHARACTER | | TPESTART | START OF DEFINITION |
| (0) | HALFWORD | 2 | TPELL | LENGTH OF EXTENSION SET BY DFHTCT MACRO |
| (2) | BITSTRING | 1 | TPEFLG1 | FLAG BYTE - SET BY DFHTCT. DEFAULT IS OFF FOR ALL FLAGS |
| | 1... .. | | * | |
| | .1.. .. | | * | |
| | ..1. | | * | |
| | ...1 | | * | |
| | 1... | | TPEVCHAR | Reserved |
| (3) | CHARACTER | 17 | TPEPSETS | CHARACTER CELL SIZE ON A PARTITION BASIS |
| (3) | CHARACTER | 8 | TPECPSET | NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES |
| (3) | CHARACTER | 6 | TPECPST6 | UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET |
| (9) | CHARACTER | 2 | * | APPL PSET NAME FOR DFHEEI |
| (B) | CHARACTER | 9 | TPETPSET | RESERVED |
| (B) | CHARACTER | 8 | TPELPSET | TERMINAL PARTITION SET |
| (13) | BITSTRING | 1 | TPEFLG2 | UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF |
| | 1... .. | | TPELPER | TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT |
| | | | | DYNAMIC FLAG BYTE |
| | | | | TERMINAL PSET HAS AN ERROR MESSAGE PARTITION |

TQG Transient data global statistics

CONTROL BLOCK NAME = DFHTQGDS
 DESCRIPTIVE NAME = CICS Global statistics for Transient data.
 FUNCTION = This data block describes the global transient data Statistics.
 The data described here is placed in storage by DFHAPST.
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.
 LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.
 LOCATION = The caller is passed a pointer to the head of the block.
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = DFHMBBCDS MBCANBFA
 DFHMBBCDS MBCACNIU
 DFHMBBCDS MBCAMXIU
 DFHMBBCDS MBCATNAL
 DFHMBBCDS MBCACNAL
 DFHMBBCDS MBCAMXAL
 DFHMBBCDS MBCATNWT
 DFHMBBCDS MBCACNWT
 DFHMBBCDS MBCAMXWT
 DFHMRCDS MBCACISZ
 DFHMRCDS MBCANCIS
 DFHMRCDS MBCACTCI
 DFHMRCDS MBCAMXCI
 DFHMRCDS MBCANOSP
 DFHMRCDS MBCACTPT
 DFHMRCDS MBCACTFT
 DFHMRCDS MBCACTGT
 DFHMRCDS MBCACTIO
 DFHMRCDS MBCANSTA
 DFHMRCDS MBCATNAL
 DFHMRCDS MBCACNAL
 DFHMRCDS MBCAMXAL
 DFHMRCDS MBCATNWT
 DFHMRCDS MBCACNWT
 DFHMRCDS MBCAMXWT
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|-----|------------|------------------------------------|
| (0) | | | DFHTQGDS | Transient data statistics (GLOBAL) |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TQGLN | Length of data area |
| | ..1. 11.1 | | TQGIDE | "45" Transient data stats id mask |
| (2) | ADDRESS | 2 | TQGID | Transient data id |
| |1 | | TQGVRS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | TQGDVERS | Statistics version number |
| (5) | CHARACTER | 3 | | Reserved |
| Intrapartition Buffer Stats | | | | |
| (8) | FULLWORD | 4 | TQGANBFA | Number of Buffers |
| (C) | FULLWORD | 4 | TQGAMXIU | Peak containing valid data |
| (10) | FULLWORD | 4 | TQGATNAL | Times buffer accessed |
| (14) | FULLWORD | 4 | TQGAMXAL | Peak concurrent access |
| (18) | FULLWORD | 4 | TQGATNWT | Times buffer wait occured |
| (1C) | FULLWORD | 4 | TQGAMXWT | Peak buffer waits |
| Intrapartition dataset stats | | | | |
| (20) | FULLWORD | 4 | TQGACISZ | Control interval size |
| (24) | FULLWORD | 4 | TQGANCIS | No. of control intervals |
| (28) | FULLWORD | 4 | TQGAMXCI | Peak No. Control intervals used |
| (2C) | FULLWORD | 4 | TQGANOSP | Times NOSPACE occurred |
| (30) | FULLWORD | 4 | TQGACTPT | No. of writes to dataset |
| (34) | FULLWORD | 4 | TQGACTGT | No. of reads from dataset |
| (38) | FULLWORD | 4 | TQGACTFT | No. formatting writes |
| (3C) | FULLWORD | 4 | TQGACTIO | No. of I/O errors |
| Stats for Multiple strings | | | | |
| (40) | FULLWORD | 4 | TQGSNSTA | Number of strings |
| (44) | FULLWORD | 4 | TQGSTNAL | Times string accessed |
| (48) | FULLWORD | 4 | TQGSXAL | Peak concurrent accesses |
| (4C) | FULLWORD | 4 | TQGSTNWT | Times string wait occurred |

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|------------|---------------------------------------|
| (50) | FULLWORD | 4 | TQGSMXWT | Peak string waits |
| Current Transient Data statistics | | | | |
| (54) | FULLWORD | 4 | TQGACNAL | Current concurrent buffer access |
| (58) | FULLWORD | 4 | TQGACNWT | Current buffer waits |
| (5C) | FULLWORD | 4 | TQGACNIU | Current buffers containing valid data |
| (60) | FULLWORD | 4 | TQGSCNAL | Current concurrent string access |
| (64) | FULLWORD | 4 | TQGSCNWT | Current string waits |
| (68) | FULLWORD | 4 | TQGACTCI | No. of Control intervals in use |
| | .11. 11.. | | TQGEN | "" |
| | .11. 11.. | | TQGCLEN | ""-TQGCLEN" Length of DSECT |

TQR Transient data statistics

CONTROL BLOCK NAME = DFHTQRDS
 DESCRIPTIVE NAME = CICS Transient Data Queue Statistics
 CICS level at which this module was last updated

FUNCTION =
 This data area contains TD Queue statistics provided by the Transient Data functional area.
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.
 There is a single instance of this data block.

LIFETIME =
 This data block is created by the Transient Data functional area to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.

STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none

DATA AREAS = none
 CONTROL BLOCKS = from Transient Data
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHTQRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | DFHTQRDS | Transient Data Queue statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TQRLEN | Length of data area |
| | .1. 1.1. | | TQRIDE | "0042" TD Queue resid statistics id mask |
| (2) | ADDRESS | 2 | TQRID | TD Queue resid statistics id |
| |1 | | TQRVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | TQRDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | TQRQID | TD Queue identifier |
| (C) | BITSTRING | 1 | TQRQTYPE | TD Queue destination type |
| (D) | CHARACTER | 3 | | Reserved |
| (10) | FULLWORD | 4 | TQRWRITE | Total writes to queue |
| (14) | FULLWORD | 4 | TQRREAD | Total reads from queue |
| (18) | FULLWORD | 4 | TQRDELET | Total deletes of queue |

Intrapartition specific fields.

| | | | | |
|------|-----------|---|-----------|-----------------------------------|
| (1C) | HALFWORD | 2 | TQRTRIGL | ATI tranid trigger level |
| (1E) | BITSTRING | 1 | TQRRTYPE | Recovery type |
| (1F) | BITSTRING | 1 | TQRFTYPE | ATI facility type |
| (20) | CHARACTER | 4 | TQRFNNAME | ATI facility name |
| (24) | BITSTRING | 1 | TQRWAIT | Indoubt waiting supported |
| (25) | BITSTRING | 1 | TQRWAITA | Indoubt action (reject/queue) |
| (26) | CHARACTER | 2 | | Reserved |
| (28) | CHARACTER | 4 | TQRATRAN | ATI tranid |
| (2C) | FULLWORD | 4 | TQRTRIGN | Number of triglev triggers |
| (30) | FULLWORD | 4 | TQRCCIOUS | Current CI's in use by this queue |
| (34) | FULLWORD | 4 | TQRPCIOUS | Peak CI's in use by this queue |
| (38) | FULLWORD | 4 | TQRCNITM | Current number of items in queue |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|------------|---------------------------------------|
| Remote specific fields. | | | | |
| (3C) | CHARACTER | 4 | TQRRSYS | Remote sysid |
| (40) | CHARACTER | 4 | TQRRQID | Remote Queue identifier |
| Indirect specific fields. | | | | |
| (44) | CHARACTER | 4 | TQRIQID | Indirect Queue identifier |
| Extrapartition specific fields. | | | | |
| (48) | BITSTRING | 1 | TQRIOTYP | I/O Type (input/output/readback) |
| (49) | CHARACTER | 3 | | Reserved |
| (4C) | CHARACTER | 8 | TQRDDNM | DD name of Extrapartition queue |
| (54) | CHARACTER | 44 | TQRDSNM | Dataset name of Extrapartition Queue |
| (80) | CHARACTER | 8 | TQRPDSMN | PDS member name |
| | 1... 1... | | TQREND | "" |
| | 1... 1... | | TQRCLN | ""-TQRLEN" Length of dsect |
| Equates to test TD Queue type (TQRQTYPE). | | | | |
| |1 | | TQRQTEXT | "1" Extrapartition Queue |
| |1 | | TQRQTINT | "2" Intrapartition Queue |
| |11 | | TQRQTIND | "3" Indirect Queue |
| |1.. | | TQRQTREM | "4" Remote Queue |
| Equates to test TD Facility type for ATI (TQRFTYPE). | | | | |
|  | .... .... |  | TQRFTNA | "0" Not Applicable |
| |1 | | TQRFTTRM | "1" Terminal |
| |1. | | TQRFTSYS | "2" System |
| |11 | | TQRFTNTE | "3" No terminal |
| Equates to test Extrapartition I/O type (TQRIOTYP). | | | | |
|  | .... .... |  | TQRIONA | "0" Not Applicable |
| |1 | | TQRIOIN | "1" Input |
| |1. | | TQRIOOUT | "2" Output |
| |11 | | TQRIORDB | "3" Readback |
| Equates to test Recovery type of queue (TQRRTYPE). | | | | |
|  | .... .... |  | TQRRTNA | "0" Not Applicable |
| |1 | | TQRRTPH | "1" Physical recoverable |
| |1. | | TQRRTLGL | "2" Logical recoverable |
| |11 | | TQRRTNR | "3" Non-recoverable |
| Equates to test indoubt wait option for queue (TQRWAIT). | | | | |
|  | .... .... |  | TQRWTNA | "0" Not Applicable |
| |1 | | TQRWTYES | "1" Queue supports indoubt waiting |
| |1. | | TQRWTNO | "2" Does not support indoubt waiting |
| Equates to test indoubt wait action for queue (TQRWAITA). | | | | |
|  | .... .... |  | TQRWANA | "0" Not Applicable |
| |1 | | TQRWAREJ | "1" Further requests will be rejected |
| |1. | | TQRWAQUE | "2" Further requests will be queued |

TRA Trace domain - common structures

CONTROL BLOCK NAME = DFHTRA
 DESCRIPTIVE NAME = CICS Trace Domain - Common structures
 and constants
 FUNCTION = Contains the structure for :-
 DFHTRA - TR anchor block
 : from original within DFHTRDS
 TR domain Anchor Block storage definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------|---|
| (0) | STRUCTURE | 208 | DFHTRA | |
| (0) | CHARACTER | 16 | TRA_PREFIX | Standard control block prefix |
| (0) | HALFWORD | 2 | TRA_LENGTH | Length of anchor block |
| (2) | CHARACTER | 1 | TRA_ARROW | '>' |
| (3) | CHARACTER | 3 | TRA_DFH | 'DFH' |
| (6) | CHARACTER | 2 | TRA_DOMID | 'TR' |
| (8) | CHARACTER | 8 | TRA_BLOCK_NAME | 'ANCHOR' |
| (10) | CHARACTER | 8 | TRA_LOCK_BLOCK | Trace lock block for DFHKERN Doubleword align for CDS |
| (18) | CHARACTER | 8 | TRA_NAB_INFO | Doubleword used for space allocation by CDS in int |
| (18) | ADDRESS | 4 | TRA_NAB | Next byte in internal tab |
| (1C) | UNSIGNED | 4 | TRA_AVLEN | Available in current blk |
| (20) | UNSIGNED | 4 | TRA_INTTABSIZ | Size of internal trace table |
| (24) | ADDRESS | 4 | TRA_INTTAB_PTR | Address of start of table |
| (28) | ADDRESS | 4 | TRA_ENDTAB_PTR | 1st byte after table |
| (2C) | ADDRESS | 4 | TRA_DFHTRAO_PTR | Addr of aux output routines |
| (30) | ADDRESS | 4 | TRA_AUX_BUF_PTR | Address of aux trace buffer |
| (34) | ADDRESS | 4 | TRA_AUX_DCB_PTR | Address of aux trace DCB |
| (38) | UNSIGNED | 4 | TRA_AUX_DCB_LEN | Length of aux trace DCB |
| (3C) | ADDRESS | 4 | TRA_AUX_DECB_PTR | Address of aux trace DECB |
| (40) | UNSIGNED | 4 | TRA_AUX_DECB_LEN | Length of aux trace DECB |
| (44) | CHARACTER | 8 | TRA_TIME_BASE | STCK at last local midnight |
| (4C) | CHARACTER | 8 | TRA_AUX_EXTENT | Current aux trace extent |
| (54) | UNSIGNED | 1 | TRA_AUTOSW_STATUS | Autoswitch status |
| (55) | UNSIGNED | 1 | TRA_AUX_STATUS | Auxiliary trace status |
| (56) | UNSIGNED | 1 | TRA_AUX_INIT_STAT | Auxiliary trace initial status |
| (57) | UNSIGNED | 1 | * | Reserved |
| (58) | BITSTRING | 4 | TRA_STATUS_FLAGS | |
| | | | 1... .. | TRA_MASTER |
| | | | .1. | TRA_INT_STATUS |
| | | | ..1. | TRA_GTF_STATUS |
| | | | ...1 | TRA_LOCK_TABLE |
| | | | 1... | TRA_TRAP_ACTIVE |
| | | |1.. | TRA_AUX_FIF |
| | | |1. | TRA_AUX_EOF |
| | | |1 | TRA_AVAILABLE |
| (59) | | | 1... .. | TRA_TERMINATING |
| | | | .1. | TRA_AUX_IO_PENDING |
| | | | ..1. | TRA_AUX_DCB_DECB_OK |
| | | | ...1 | TRA_TRAO_RLSE_REQD |
| | | | 1... | TRA_PA_IN_CONTROL |
| | | |1.. | TRA_TRAP_UNUSABLE |
| | | |1. | TRA_TRAP_DISABLED |
| | | |1 | TRA_TRAP_INIT_STAT |
| (5A) | | | 1... .. | TRA_INITIALISING |
| | | | .1. | TRA_AUX_STARTING |
| | | | ..1. | TRA_RETAIN_AUX_DCB |
| | | | ...1 | TRA_FT_ERR_BEFORE |
| (5A) | BITSTRING | 1 | * | Reserved |
| (5C) | ADDRESS | 4 | TRA_DFHTRAP_PTR | DFHTRAP entry point |
| (60) | ADDRESS | 4 | TRA_TRAP_WA_PTR | DFHTRAP work area pointer |
| (64) | ADDRESS | 4 | TRA_GTF_BUF_PTR | Address of GTF buffer |
| (68) | UNSIGNED | 4 | TRA_ATS_ECB | For aux subtask to wait on |
| (6C) | UNSIGNED | 4 | TRA_MAIN_ECB | For CICS TCBS to wait on |
| (70) | CHARACTER | 72 | TRA_ATS_REGSAVE | Aux subtask register save |
| (B8) | UNSIGNED | 1 | TRA_TRAO_REQ | DFHTRAO request byte |
| (B9) | UNSIGNED | 1 | TRA_TRAO_RC | DFHTRAO return code |
| (BA) | CHARACTER | 2 | * | Reserved |
| (BC) | ADDRESS | 4 | TRA_TRAO_BPTR | TR block to be written |
| (C0) | ADDRESS | 4 | TRA_TRAO_PARAMS | TRAO parameter list |
| (C4) | UNSIGNED | 4 | TRA_AUX_TERMINATE_ECB | |
| | | | 1... .. | TRA_AUX_TERM_ECB_WAIT |
| | | | | Aux tracing terminate ECB |
| | | | | WAIT BIT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------|------|-----|----------------------------|-------------------------|
| .1.. | | | TRA_AUX_ TERM_ECB_POST | POST BIT |
| ..11 1111 | | | * | Reserved |
| (C5) CHARACTER | | 3 | * | Reserved |
| (C8) ADDRESS | | 4 | TRA_ATS_TCB | Aux subtask TCB address |
| (CC) ADDRESS | | 4 | TRA_SM_ ISOLATION_TOKEN | Isolation token |

Constants

| Len | Type | Value | Name | Description |
|------------------------------|---------|-------|----------------------------|-------------|
| 1 | DECIMAL | 1 | TRA_TRAO_TERM | |
| 1 | DECIMAL | 2 | TRA_TRAO_OPEN | |
| 1 | DECIMAL | 3 | TRA_TRAO_CLOSE | |
| 1 | DECIMAL | 4 | TRA_TRAO_WRITE | |
| 1 | DECIMAL | 5 | TRA_TRAO_CHECK | |
| Values for TRA_TRAO_RC | | | | |
| 1 | DECIMAL | 1 | TRA_TRAO_OK | |
| 1 | DECIMAL | 2 | TRA_TRAO_INVALID | |
| 1 | DECIMAL | 3 | TRA_TRAO_OPEN_FAILED | |
| 1 | DECIMAL | 4 | TRA_TRAO_ END_OF_EXTENT | |
| 1 | DECIMAL | 5 | TRA_TRAO_AUX_ABEND | |
| 1 | DECIMAL | 6 | TRA_TRAO_AUX_IO_ERROR | |
| 1 | DECIMAL | 7 | TRA_TRAO_ DCB_NOT_FOUND | |
| Values for TRA_INT_STATUS | | | | |
| 0 | BIT | 1 | TRA_INT_STARTED | |
| 0 | BIT | 0 | TRA_INT_STOPPED | |
| Values for TRA_AUX_STATUS | | | | |
| 1 | DECIMAL | 1 | TRA_AUX_STARTED | |
| 1 | DECIMAL | 2 | TRA_AUX_STOPPED | |
| 1 | DECIMAL | 3 | TRA_AUX_PAUSED | |
| Values for TRA_GTF_STATUS | | | | |
| 0 | BIT | 1 | TRA_GTF_STARTED | |
| 0 | BIT | 0 | TRA_GTF_STOPPED | |
| Values for TRA_AUTOSW_STATUS | | | | |
| 1 | DECIMAL | 1 | TRA_AUTOSW_OFF | |
| 1 | DECIMAL | 2 | TRA_AUTOSW_ONCE | |
| 1 | DECIMAL | 3 | TRA_AUTOSW_ CONTINUOUS | |

TRAP Trace parameter list

CONTROL BLOCK NAME = DFHTRADS
 DESCRIPTIVE NAME = CICS Parameter List to DFHTRAP
 FUNCTION =
 Defines the parameter list passed from DFHTRPT to the F.E. Global Trap/Trace Exit Program DFHTRAP.
 LIFETIME =
 The parameter list is created by DFHTRPT immediately prior to invoking DFHTRAP. Its contents are valid for the duration of the call to DFHTRAP.
 STORAGE CLASS =
 The parameter list to DFHTRAP is in storage MVS GETMAIN'd above the 16M line by DFHTRSR.
 LOCATION =
 The parameter list is in the Global Trap Work Area whose format is described by DFHTRGTW. This work area is addressed from TRA_TRAP_WA_PTR in the TR domain anchor block.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 This control block references no operating system data areas.
 CONTROL BLOCKS =
 This control block references no other control blocks.
 GLOBAL VARIABLES (Macro pass) =
 This control block definition references no global variables.
 PERSONNEL
 adding a PL/AS version

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|-------------------------------|
| (0) | STRUCTURE | 48 | DFHTRADS | DUMMY SECTION - PLIST TO TRAP |
| <p>TRAFGLSA - Address of return actions flag word Return actions flag settings are in the byte addressed from field TRAFGLSA in the parameter list to DFHTRAP. The individual flag settings are as follows : TRAPFTRE EQU X'80' .. Make further trace entry on behalf of trap exit TRAPDUMP EQU X'40' .. Take a system dump TRAPCABD EQU X'10' .. Abend CICS (with a dump) TRAPDISA EQU X'08' .. Disable trap so that it cannot be used until reactivated Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to the trace domain. Note also that the trap will be disabled when requests to abend CICS are returned.</p> | | | | |
| (0) | ADDRESS | 4 | TRAFGLSA | A(Return actions flag word) |
| <p>TRACURTA - Address of current entry in internal trace table This field points to the trace entry constructed by DFHTRPT on the same invocation for which it is calling DFHTRAP. This entry should not be modified by DFHTRAP. Its structure is mapped by the DSECT DFHTREN.</p> | | | | |
| (4) | ADDRESS | 4 | TRACURTA | A(Current entry) |
| <p>TRAWORKA - Address of 80-byte work area for DFHTRAP. This work area is acquired when DFHTRAP is activated and is not changed by CICS until DFHTRAP is de-activated, so it may be used for saving information between invocations of DFHTRAP</p> | | | | |
| (8) | ADDRESS | 4 | TRAWORKA | A(80-byte work area) |
| <p>TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of TRAPFTRE in the return actions flag byte. This flag indicates that DFHTRPT should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If TRAPFTRE is set, DFHTRPT examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry.</p> | | | | |
| (C) | CHARACTER | 24 | TRATRDAT | Total length of data fields |
| (C) | ADDRESS | 4 | TRAD1A | Address of DATA1 information |
| (10) | UNSIGNED | 4 | TRAD1L | Length of DATA1 information |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------------|
| (14) | ADDRESS | 4 | TRAD2A | Address of DATA2 information |
| (18) | UNSIGNED | 4 | TRAD2L | Length of DATA2 information |
| (1C) | ADDRESS | 4 | TRAD3A | Address of DATA3 information |
| (20) | UNSIGNED | 4 | TRAD3L | Length of DATA3 information |
| TRACSAAD - CSA address The address of the CSA or zero. This will only be zero for invocations of DFHTRAP early in initialisation (before the CSA has been set up). | | | | |
| (24) | ADDRESS | 4 | TRACSAAD | CSA address |
| TRATCAAD - TCA address The address of the current TCA or zero. This will be zero when running under other than the quasi-reentrant TCB, or when running under a non-transaction manager type task. | | | | |
| (28) | ADDRESS | 4 | TRATCAAD | TCA address |
| TRARSAAD - Register save area address The address of the register save area that R13 will point to during the invocation of DFHTRAP. | | | | |
| (2C) | ADDRESS | 4 | TRARSAAD | RSA address |
| (30) | CHARACTER | | TRAEND | Ending address |

TRBL Trace domain - common structures

CONTROL BLOCK NAME = DFHTRBL
 DESCRIPTIVE NAME = CICS Trace Domain - Common structures and constants
 from original within DFHTRDS
 FUNCTION = Contains the structure for :-
 DFHTRBL - TR internal table block
 The internal trace table consists of blocks of this format chained in a loop. The auxiliary trace dataset blocks are also of this format, except that the first twelve bytes contain the date and the date format.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|------|----------------|------------------------------|
| (0) | STRUCTURE | 4096 | DFHTRBL | Trace block |
| (0) | CHARACTER | 24 | TRBL_HEADER | Block header |
| (0) | ADDRESS | 4 | TRBL_FWD | Forward chain |
| (4) | ADDRESS | 4 | TRBL_BWD | Backward chain |
| (8) | ADDRESS | 4 | * | Reserved |
| (C) | CHARACTER | 4 | TRBL_FLAGS | Flags - always zero in table |
| | 1... .. | | TRBL_EOF | End-of-file block for aux |
| | .1.. .. | | TRBL_FIF | First-in-file block for aux |
| (C) | BITSTRING | 3 | * | Reserved |
| (10) | CHARACTER | 8 | TRBL_TIME_BASE | STCK at last local midnight |
| (18) | CHARACTER | 4072 | TRBL_DATA | Rest of block is data |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------|---|
| 2 | DECIMAL | 4096 | TRBLOCK_SIZE | Size of trace blocks |
| 2 | DECIMAL | 4072 | TRBLOCK_DATALIM | Maximum data in one block |
| 2 | DECIMAL | 16384 | MIN_TABLE_SIZE | Minimum size for internal. .trace table |
| 2 | DECIMAL | 256 | GTF_MAX | Maximum length of GTF entries |
| 0 | BIT | 1 | ON | |
| 0 | BIT | 0 | OFF | |
| 0 | BIT | 1 | YES | |
| 0 | BIT | 0 | NO | |

TREN Trace entry

```

=====
CONTROL BLOCK NAME = DFHTREN
DESCRIPTIVE NAME = CICS trace entry
FUNCTION = Description of header of CICS trace entry.
LIFETIME = Created by DFHTRPT in the internal trace table for
            each TRACE_PUT. Destroyed when overwritten after
            the next trace table wrap. Trace entries are also
            held on auxiliary trace datasets and GTF datasets.
STORAGE CLASS = Held in the internal trace table in MVS storage.
LOCATION = Each trace table block contains a block header
            followed by as many entries contiguously as will
            fit in the rest of the block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|--|
| (0) | STRUCTURE | * | DFHTREN | Trace entry |
| (0) | CHARACTER | 40 | TREN_HEADER | Standard header |
| (0) | CHARACTER | 2 | TREN_MARKER | Eyecatcher '<>' |
| (2) | UNSIGNED | 2 | TREN_LEN | Length of entry inc. header |
| (4) | UNSIGNED | 2 | TREN_CALLER | Domain id of trace caller |
| (6) | UNSIGNED | 2 | TREN_POINTID | ID of trace point in domain |
| (8) | UNSIGNED | 1 | TREN_TYPE | Entry type |
| | 1... .. | | * | The Top bits are used |
| | .1.. .. | | * | for the release of the |
| | ..1. .. | | * | trace. |
| | ...1 .. | | * | |
| | 1.. | | * | The Bot Bits are used for |
| |1.. | | * | the type. The types are |
| |1. | | * | listed below. |
| |1 | | * | |
| (9) | BITSTRING | 3 | TREN_TASK | Transaction manager task num |
| (C) | UNSIGNED | 2 | TREN_KE_NUM | Kernel task number |
| (E) | UNSIGNED | 2 | TREN_OWNING_DOM | Owning domain for system task |
| (10) | UNSIGNED | 2 | TREN_HEADER_LENGTH | Length of this header Offset of TREN_HEADER_LENGTH must not change. Add new header fields after this field |
| (12) | CHARACTER | 5 | TREN_TCB_ID | TCB ID |
| (17) | UNSIGNED | 1 | * | filler to word align |
| (18) | ADDRESS | 4 | TREN_TCBADDR | TCB address |
| (1C) | ADDRESS | 4 | TREN_RETADDR | Addr of call to trace caller |
| (20) | CHARACTER | 8 | TREN_TIME | Time of entry - 8 byte STCK |
| (28) | CHARACTER | * | TREN_DATA | Trace data |
| (28) | UNSIGNED | 2 | TREN_FIELD_LEN | Length of data field |
| (2A) | CHARACTER | * | TREN_FIELD_DATA | Data field |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------------------|-------------|
| 1 | HEX | 40 | TREN_TYPE_NORMAL | |
| 1 | HEX | 4D | TREN_TYPE_RRS_CALL | |
| 1 | HEX | 4C | TREN_TYPE_RRMS_EXIT | |
| 1 | HEX | 4B | TREN_TYPE_DB2_SUBTASK | |
| 1 | HEX | 4A | TREN_TYPE_ | |
| 1 | HEX | 49 | DBCTL_RESUME_EXIT | |
| 1 | HEX | 48 | TREN_TYPE_ | |
| 1 | HEX | 47 | RLS_QUIESCE_EXIT | |
| 1 | HEX | 46 | TREN_TYPE_EXCI | |
| 1 | HEX | 45 | TREN_TYPE_ | |
| 1 | HEX | 44 | LERADSYNAD_HPO | |
| 1 | HEX | 43 | TREN_TYPE_ | |
| 1 | HEX | 42 | VTAM_EXIT_HPO | |
| 1 | HEX | 41 | TREN_TYPE_TP_END | |
| 1 | HEX | 40 | TREN_TYPE_LERAD_SYNAD | |
| 1 | HEX | 30 | TREN_TYPE_VTAM_EXIT | |
| 1 | HEX | 20 | TREN_TYPE_MONITORING | |
| 1 | HEX | 10 | TREN_TYPE_SDUMP_EXIT | |
| 1 | HEX | 00 | TREN_TYPE_R530 | |
| 1 | HEX | | TREN_TYPE_R520 | |
| 1 | HEX | | TREN_TYPE_R510 | |
| 1 | HEX | | TREN_TYPE_R410 | |
| 1 | HEX | | TREN_TYPE_R330 | |

TRFCA Trace formatting control area

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|------|-------------------------|-------------------------------|
| (0) | STRUCTURE | 2426 | DFHTRFCA | Trace formatting control area |
| Common data | | | | |
| (0) | ADDRESS | 4 | TRFCA_PL_PTR | TRF_PRINT_LINE routine addr |
| (4) | ADDRESS | 4 | TRFCA_PBUF_PTR | 132 character print buffer |
| (8) | UNSIGNED | 4 | TRFCA_ENTRY_COUNT | Count of entries processed |
| (C) | UNSIGNED | 4 | TRFCA_PRINT_COUNT | Count of entries printed |
| Parameters for DFHTRFPP | | | | |
| (10) | ADDRESS | 4 | TRFCA_PARM_PTR | -> selective print parms |
| (14) | UNSIGNED | 4 | TRFCA_PARM_LEN | Length of print parms |
| (18) | ADDRESS | 4 | TRFCA_BUFF_PTR | -> TRFPP (4096n)byte buffer |
| The encoded form of the selective print parameters passed to DFHTUxxx or AMDUSREF. | | | | |
| (1C) | CHARACTER | 4 | TRFCA_SEL_PRINT_FLAGS | Selective print flags |
| | 1... .. | | TRFCA_SEL_ACTIVE | Selection active ? |
| | .1. | | TRFCA_TRFPP_INIT | DFHTRFPP initialisation flag |
| | ..1. | | TRFCA_PARM_ERR | Error in parameters |
| (1C) | BITSTRING | 3 | * | Available |
| (20) | ADDRESS | 4 | TRFCA_TERMLIST_PTR | Encoded TERMLIST list |
| (24) | ADDRESS | 4 | TRFCA_TERMTASK_PTR | Tasks at selected TERMLISTs |
| (28) | ADDRESS | 4 | TRFCA_TRANLIST_PTR | Encoded TRANID list |
| (2C) | ADDRESS | 4 | TRFCA_TRANTASK_PTR | Tasks with selected TRANIDs |
| (30) | ADDRESS | 4 | TRFCA_TIMELIST_PTR | Encoded time ranges |
| (34) | ADDRESS | 4 | TRFCA_TASKLIST_PTR | Encoded TASKID list |
| (38) | ADDRESS | 4 | TRFCA_KENUM_PTR | Encoded KE_NUM list |
| (3C) | ADDRESS | 4 | TRFCA_ENTRYNUM_PTR | Encoded ENTRY_NUM list |
| (40) | ADDRESS | 4 | TRFCA_TYPETR_PTR | Dom ptrs and lens for TYPETR |
| Parameters for DFHTRFPB | | | | |
| (44) | ADDRESS | 4 | TRFCA_CURRBL_PTR | Current block for DFHTRFPB |
| (48) | UNSIGNED | 4 | TRFCA_BLOCK_AVLEN | Space left in last block |
| Parameters for DFHTRFFE | | | | |
| (4C) | ADDRESS | 4 | TRFCA_CURREN_PTR | Current entry for DFHTRFFE |
| (50) | CHARACTER | 8 | TRFCA_TIME_BASE | STCK at last local midnight |
| (58) | CHARACTER | 8 | TRFCA_LAST_TIME | STCK of last entry |
| Parameters for DFHTRFFD | | | | |
| (60) | UNSIGNED | 2 | TRFCA_TRACE_CALLER | Domain id of trc caller |
| (62) | CHARACTER | 1 | * | |
| | 1... .. | | TRFCA_TT510_LOAD_FAILED | DFHTT510 not found |
| | .1. | | TRFCA_TT520_LOAD_FAILED | DFHTT520 not found |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|------|------------------------------|----------------------------|
|  | ... .. |  | TRFCA_TT530_LOAD_FAILED | |
| | ...1 1111 | | * | DFHTT530 not found |
| (63) | CHARACTER | 1 | * | Reserved |
| (64) | ADDRESS | 4 | * | unused |
| (68) | ADDRESS | 4 | TRFCA_TT530_PTR | PTR to CDURUN |
| | | | | PTR to CDURUN 5.2 |
| #Unused# area | | | | |
| (6C) | CHARACTER | 56 | * | Available |
| (A4) | ADDRESS | 4 | TRFCA_TCBIDLST_PTR | Encoded TCBID list |
| (A8) | ADDRESS | 4 | TRFCA_TCBADLST_PTR | Encoded TCBADDR list |
| Storage used by TRFPRL - the print line routine | | | | |
| (AC) | CHARACTER | 4 | * | Flag word |
| | 1... .. | | TRFCA_SPACE | Space after print |
| (AC) | BITSTRING | 3 | * | Reserved |
| (B0) | ADDRESS | 4 | TRFCA_DUFSTG_PTR | DUF_STG ptr for DFHTRDUF |
| (B0) | ADDRESS | 4 | TRFCA_ABDPL_PTR | ABDPL ptr for AMDUSREF |
| (B4) | ADDRESS | 4 | TRFCA_PRDCB_PTR | Print DCB |
| (B8) | FULLWORD | 4 | TRFCA_PAGE_COUNT | Page count |
| (BC) | FULLWORD | 4 | TRFCA_LINE_COUNT | Line count |
| (C0) | FULLWORD | 4 | TRFCA_PAGE_SIZE | Number of lines/page |
| Interpretation area and control fields | | | | |
| (C4) | ADDRESS | 4 | TRFCA_CDED_TOKEN | Translation routine token |
| (C8) | ADDRESS | 4 | TRFCA_IA_NAB | Next byte in interp area |
| (CC) | UNSIGNED | 4 | TRFCA_IA_LEN_LEFT | Length left in interp area |
| (D0) | CHARACTER | 1024 | TRFCA_IA | Interpretation area |
| Warning the offset of the DFHTRIP must not change compatibility with releases 3.3 and above this is for GTF multiple release. | | | | |
| PARAMETERS FOR DFHXXTRI, MAPPED BY DFHTRIP. | | | | |
| THE DATA FIELD ADDRESSES AND LENGTHS USED BY DFHTRFFD. | | | | |
| (4D0) | CHARACTER | 300 | TRFCA_TRIP | MUST MATCH DFHTRIP |
| (4D0) | CHARACTER | 140 | TRIP_CICS_WORKAREA | |
| (4D0) | ADDRESS | 4 | TRIP_FCA_PTR | |
| (4D4) | UNSIGNED | 2 | TRIP_POINTID | |
| (4D4) | UNSIGNED | 1 | TRIP_POINTID_BYTE1 | |
| (4D5) | UNSIGNED | 1 | TRIP_POINTID_BYTE2 | |
| (4D6) | UNSIGNED | 1 | * | |
| (4D7) | BITSTRING | 1 | TRIP_FIELD_T | |
| (4D8) | ADDRESS | 4 | TRIP_FIELD_P (8) | |
| (4F8) | CHARACTER | 28 | * | |
| (514) | FULLWORD | 4 | TRIP_FIELD_N (8) | |
| (534) | CHARACTER | 28 | * | |
| (550) | CHARACTER | 12 | TRIP_TRIB_PLIST | |
| (550) | ADDRESS | 4 | TRIP_DATA_P | |
| (554) | UNSIGNED | 2 | TRIP_DATA_N | |
| (556) | UNSIGNED | 1 | TRIP_DATA_TYPE | |
| (557) | UNSIGNED | 1 | TRIP_PLIST_TYPE | |
| (558) | UNSIGNED | 1 | TRIP_SPACE | |
| (559) | UNSIGNED | 1 | TRIP_FT_TYPE | |
| (55A) | CHARACTER | 2 | * | |
| (55C) | CHARACTER | 20 | * | |
| (570) | CHARACTER | 108 | TRIP_FT_WORKAREA | |
| (570) | CHARACTER | 108 | TRIP_FT_WORK | |
| (570) | ADDRESS | 4 | TRFTW_FORMATTING_ADDRESS (6) | |
| (588) | CHARACTER | 8 | TRFTW_FORMATTING_NAME (6) | |
| (5B8) | CHARACTER | 4 | * | |
| (5BC) | CHARACTER | 32 | TRFTW_WIPE_AREA | |
| (5BC) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | |
| (5BD) | BITSTRING | 1 | TRFTW_FLAGS | |
| | 1... .. | | TRFTW_INTERPRETATION | |
| | .1.. .. | | TRFTW_LOAD_FAILED | |
| | ..1. | | TRFTW_NO_NAME | |
| | ...1 | | TRFTW_FEATURE_ABEND | |
| | 1.. | | TRFTW_INT_OVERFLOW | |
| |111 | | * | |
| (5BE) | UNSIGNED | 2 | TRFTW_LEN_LEFT | |
| (5C0) | ADDRESS | 4 | TRFTW_NAB | |
| (5C4) | ADDRESS | 4 | TRFTW_DFHTTRIB_ADDRESS | |
| (5C8) | ADDRESS | 4 | TRFTW_CDPFTAB_ADDRESS | |
| (5CC) | CHARACTER | 8 | TRFTW_MODULE_NAME | |
| (5D4) | CHARACTER | 8 | * | |
| (5DC) | CHARACTER | 32 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------------------|--|
| (5FC) | CHARACTER | 188 | * | UNUSED |
| (6B8) | CHARACTER | 24 | * | Unused |
| Various flags | | | | |
| (6D0) | CHARACTER | 4 | * | |
| | 1... .. | | TRFCA_INT_ OVERFLOW | Interpretation overflow |
| | .1.. .. | | TRFCA_EXTRA_LINE | Extra jobname line |
| | .1. | | TRFCA_FULL_ ABBREV | For compability |
| | ...1 | | TRFCA_LAST_ BLOCK | Last trace blk indicator |
| | 1... | | TRFCA_GTF_TRACE | Doing a GTF trace |
| |1.. | | TRFCA_SELECT_ ALL | Have requested ALL parms |
| |1. | | TRFCA_UPPERCASE_ REQ | |
| |1 | | TRFCA_EXCEPTION | Output in uppercase |
| (6D1) | 1... .. | | TRFCA_PDX_TRACE | Only print exception tr |
| | .1.. | | TRFCA_AUX_TRACE | Doing a system dump tr |
| | .1. | | TRFCA_FULL_ TRACE | Doing a AUX trace |
| | ...1 | | TRFCA_ABBREV_ TRACE | Full request |
| | 1... | | TRFCA_SHORT_ TRACE | Abbreviated request |
| |1.. | | TRFCA_FULL_ DO | Short request |
| |1 | | TRFCA_ABBREV_ DO | Full completed |
| |1 | | TRFCA_SHORT_ DO | Abbreviated complete |
| |1 | | TRFCA_SHORT_ DO | Short complete |
| (6D2) | 1... .. | | TRFCA_TRACE_ DONE_ALREADY | |
| (6D2) | BITSTRING | 1 | * | Trace already printed |
| (6D4) | ADDRESS | 4 | TRFCA_JOB_ LINE_PTR | Available |
| (6D8) | ADDRESS | 4 | TRFCA_INTERVAL_ PTR | Ptr to jobname line buff |
| | | | | Time interval parameter. |
| All new fields that are not Multi-release depended can be added after this point otherwise see reserved space above. Note: fields to be used by Vendors must be added above this point. Fields below do NOT need their offsets guaranteed. Pointers to the different release formatters | | | | |
| (6DC) | CHARACTER | 28 | * | |
| (6DC) | ADDRESS | 4 | TRFCA_FORMATTER_ R530 | |
| | | | | Release 5 version 3 |
| (6E0) | ADDRESS | 4 | TRFCA_FORMATTER_ R520 | |
| | | | | Release 5 version 2 |
| (6E4) | ADDRESS | 4 | TRFCA_FORMATTER_ R510 | |
| | | | | Release 5 version 1 |
| (6E8) | ADDRESS | 4 | TRFCA_FORMATTER_ R410 | |
| | | | | Release 4 version 1 |
| (6EC) | ADDRESS | 4 | TRFCA_FORMATTER_ R330 | |
| | | | | Release 3 version 3 |
| (6F0) | CHARACTER | 8 | * | Space for new release |
| (6F8) | UNSIGNED | 1 | TRFCA_FREE_ BUFFER (12) | Subscript value of first free buffer for each type |
| (704) | CHARACTER | 4 | * | Reserved |
| (708) | ADDRESS | 4 | TRFCA_RECORD_ BUFFER (12,5) | |
| | | | | Pointers to segmented entry reconstruction areas - one per type AND region/ system |
| (7F8) | ADDRESS | 4 | TRFCA_NEXT_BYTE (12,5) | Ptrs to next free byte in reconstruction area |
| (8E8) | UNSIGNED | 2 | TRFCA_LEN_REM (12,5) | Length still to come continuation records |
| (960) | CHARACTER | 8 | TRFCA_DATE | Date |
| (968) | CHARACTER | 8 | TRFCA_APPLID | Applid |
| (970) | CHARACTER | 1 | * | |
| | 1... .. | | TRFCA_R520_ LOAD_FAIL | DFHTR520 not found |
| | .1.. .. | | TRFCA_R510_ LOAD_FAIL | DFHTR510 not found |
| | .1. | | TRFCA_R410_ LOAD_FAIL | DFHTR410 not found |
| | ...1 | | TRFCA_R330_ LOAD_FAIL | DFHTR330 not found |
| | 111. | | * | Reserved |
| For compatibility with Vendor products we will keep the length of the TRFCA fixed. If new fields are added then change the length of the used area below. | | | | |
| (971) | CHARACTER | 9 | * | Used area |
| (97A) | CHARACTER | | * | End of FCA |

Structure of the core block containing record selection data

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | TRFPPWA | |
| (0) | FULLWORD | 4 | WA_LEN | size of block |
| (4) | FULLWORD | 4 | WA_CNT | count of entries used |
| (8) | FULLWORD | 4 | WA_IT_LEN | length of each entry |
| (C) | CHARACTER | * | WA_DATA | This area is considered to be an array, with WA_IT_LEN being the length of each element, and WA_CNT the dimension of the array. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------------------|--|
| (0) | STRUCTURE | 300 | DFHTRIP | This must match TRFCA_TRIP |
| (0) | CHARACTER | 140 | TRIP_CICS_ WORKAREA | |
| (0) | ADDRESS | 4 | TRIP_FCA_PTR | Format control area addr |
| (4) | UNSIGNED | 2 | TRIP_POINTID | Point id of entry |
| (4) | UNSIGNED | 1 | TRIP_POINTID_ BYTE1 | 1st half of pointid |
| (5) | UNSIGNED | 1 | TRIP_POINTID_ BYTE2 | 2nd half of pointid |
| (6) | UNSIGNED | 1 | * | Reserved |
| (7) | BITSTRING | 1 | TRIP_FIELD_T | Bitmap of TRIP_FIELD types '0'B=EBCDIC '1'B=ASCII |
| (8) | ADDRESS | 4 | TRIP_FIELD_P (8) | Data field addresses Data 1 to 7 & the Feature trace hdr |
| (28) | CHARACTER | 28 | * | Reserved for DATA field expansion. |
| (44) | FULLWORD | 4 | TRIP_FIELD_N (8) | Data field lengths Data 1 to 7 & the Feature trace hdr |
| (64) | CHARACTER | 28 | * | Reserved for DATA field expansion. |
| (80) | CHARACTER | 12 | TRIP_TRIB_PLIST | Parameters for DFHTRIB |
| (80) | ADDRESS | 4 | TRIP_DATA_P | Data ptr for DFHTRIB |
| (84) | UNSIGNED | 2 | TRIP_DATA_N | Data length for DFHTRIB |
| (86) | UNSIGNED | 1 | TRIP_DATA_TYPE | Data type for DFHTRIB See constant defns below |
| (87) | UNSIGNED | 1 | TRIP_PLIST_ TYPE | For data type CDPLIST only See constant defns below |
| (88) | UNSIGNED | 1 | TRIP_SPACE | Space before adding data |
| (89) | UNSIGNED | 1 | TRIP_FT_TYPE | Feature type trace |
| (8A) | CHARACTER | 2 | * | Reserved |
| (8C) | CHARACTER | 20 | * | Reserved |
| (A0) | CHARACTER | 108 | TRIP_FT_WORKAREA | |
| (A0) | CHARACTER | 108 | TRIP_FT_WORK | |
| (A0) | ADDRESS | 4 | TRFTW_FORMATTING_ ADDRESS (6) | |
| (B8) | CHARACTER | 8 | TRFTW_FORMATTING_ NAME (6) | |
| (E8) | CHARACTER | 4 | * | |
| (EC) | CHARACTER | 32 | TRFTW_WIPE_ AREA | |
| (EC) | UNSIGNED | 1 | TRFTW_TRACE_ TYPE | |
| (ED) | BITSTRING | 1 | TRFTW_FLAGS | |
| | | | 1... | TRFTW_INTERPRETATION |
| | | | .1.. | TRFTW_LOAD_ FAILED |
| | | | ..1. | TRFTW_NO_ NAME |
| | | | ...1 | TRFTW_FEATURE_ ABEND |
| | | | 1... | TRFTW_INT_ OVERFLOW |
| | | |111 | * |
| (EE) | UNSIGNED | 2 | TRFTW_LEN_ LEFT | |
| (F0) | ADDRESS | 4 | TRFTW_NAB | |
| (F4) | ADDRESS | 4 | TRFTW_DFHTRIB_ ADDRESS | |
| (F8) | ADDRESS | 4 | TRFTW_CDPFTAB_ ADDRESS | |
| (FC) | CHARACTER | 8 | TRFTW_MODULE_ NAME | |
| (104) | CHARACTER | 8 | * | |
| (10C) | CHARACTER | 32 | * | Reserved |

CONTROL BLOCK NAME = DFHTRFTC
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
 FUNCTION = This is the header for a trace entry made by a Feature when the DFHTRFTM TRACE_PUT interface is used.
 It appears immediately after the TREN_HEADER for a Feature trace entry, as the first part of the TREN_DATA. The remaining trace entry data, supplied by the Feature as TRFT_TRACE_PUT call, follows immediately after the TRFTE_HEADER.
 LIFETIME = Created by DFHTRFT in the internal trace table for each TRACE_PUT. Destroyed when overwritten after the next trace table wrap. Trace entries are also held on auxiliary trace datasets and GTF datasets.
 STORAGE CLASS = Held in the internal trace table in MVS storage.
 LOCATION = Each trace table block contains a block header followed by as many entries contiguously as will fit in the rest of the block.
 INNER CONTROL BLOCKS =
 This is an inner control block to the DFHTREN. DFHTRFTE has no inner control blocks itself.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (0) | STRUCTURE | 94 | TRFTE | Feature trace entry |
| (0) | UNSIGNED | 2 | TRFTE_HEADER_LEN | Feature trace header length - excludes the length of this field itself |
| (2) | CHARACTER | 92 | TRFTE_HEADER | Feature trace header |
| (2) | UNSIGNED | 1 | TRFTE_VERSION | Feature trace header version |
| (3) | UNSIGNED | 1 | * | SPARE |
| (4) | CHARACTER | 30 | TRFTE_COMPANY_NAME | Feature company name |
| (22) | CHARACTER | 30 | TRFTE_FEATURE_NAME | Feature name |
| (40) | CHARACTER | 10 | TRFTE_FEATURE_LEVEL | Feature release level |
| (4A) | CHARACTER | 8 | TRFTE_FORMATTING_ROUTINE | Feature trace formatting routine |
| (52) | CHARACTER | 9 | TRFTE_ABBREV_NAME | Name for formatted trace |
| (5B) | BITSTRING | 1 | TRFTE_FLAGS | Feature trace entry flags |
| | 1... .. | | TRFTE_EXCEPTION_TRACE | Exception trace flag |
| | .111 1111 | | * | Spare |
| (5C) | CHARACTER | 2 | * | Spare |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|------------------------|
| (0) | STRUCTURE | 108 | TRFTW | FEATURE TRACE ENTRY |
| (0) | ADDRESS | 4 | TRFTW_FORMATTING_ADDRESS (6) | STORED ADDR |
| (18) | CHARACTER | 8 | TRFTW_FORMATTING_NAME (6) | STORED NAMES |
| (48) | CHARACTER | 4 | * | SPARE |
| (4C) | CHARACTER | 32 | TRFTW_WIPE_AREA | WIPED EACH CAL@BA70223 |
| (4C) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | TYPES BELOW |
| (4D) | BITSTRING | 1 | TRFTW_FLAGS | |
| | 1... .. | | TRFTW_INTERPRETATION | FOREIGN CODE |
| | .1.. .. | | TRFTW_LOAD_FAILED | MVS LOAD |
| | ..1. | | TRFTW_NO_NAME | NO FORMAT |
| | ...1 | | TRFTW_FEATURE_ABEND | NO FORMAT |
| | 1... | | TRFTW_INT_OVERFLOW | |
| |111 | | * | SPARE |
| (4E) | UNSIGNED | 2 | TRFTW_LEN_LEFT | WORK AREA |
| (50) | ADDRESS | 4 | TRFTW_NAB | PTR WORK AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------------|--------------|
| (54) | ADDRESS | 4 | TRFTW_DFHTTRIB_ ADDRESS | TRIB ADDRESS |
| (58) | ADDRESS | 4 | TRFTW_CDPFTAB_ ADDRESS | CDURUN TABLE |
| (5C) | CHARACTER | 8 | TRFTW_MODULE_ NAME | FT MOD NAME |
| (64) | CHARACTER | 8 | * | SPARE |

Constants

| Len | Type | Value | Name | Description |
|----------------------------|---------|-------|-----------------------|--|
| 2 | DECIMAL | 7 | TRF_NUM_FIELDS | Maximum number of DATA.. ..fields on TRACE_PUT |
| 2 | DECIMAL | 32 | TRF_BPL | Number of bytes of data.. ..formatted on each line |
| 1 | DECIMAL | 12 | GTF_TYPE_NUM | number of TREN_TYPES |
| 1 | DECIMAL | 0 | TRFTW_ENTRY | ENTRY |
| 1 | DECIMAL | 1 | TRFTW_EXIT | EXIT |
| 1 | DECIMAL | 2 | TRFTW_EXCEPTION | EXCEPTION@BA70223 |
| 1 | DECIMAL | 3 | TRFTW_DATA | DATA |
| 1 | DECIMAL | 4 | TRFTW_EVENT | EVENT |
| 1 | DECIMAL | 9 | TRFTW_RUB | |
| 1 | DECIMAL | 0 | TRFTW_RC_OK | OK |
| 1 | DECIMAL | 1 | TRFTW_RC_OVERFLOW | Overflow |
| Values for TRIP_DATA_TYPE | | | | |
| 1 | DECIMAL | 0 | TRI_CHAR | CHAR on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_HEX | HEX on DFHTRIBM |
| 1 | DECIMAL | 2 | TRI_DEC | DEC on DFHTRIBM |
| 1 | DECIMAL | 3 | TRI_BIN | BIN on DFHTRIBM |
| 1 | DECIMAL | 4 | TRI_CDPLIST | CDPLIST on DFHTRIBM |
| 1 | DECIMAL | 5 | TRI_ASCII | ASCII on DFHTRIBM |
| Values for TRIP_PLIST_TYPE | | | | |
| 1 | DECIMAL | 0 | TRI_IN | IN on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_OUT | OUT on DFHTRIBM |
| Values for TRIP_SPACE | | | | |
| 1 | DECIMAL | 0 | TRI_NO | NO on DFHTRIBM |
| 1 | DECIMAL | 1 | TRI_YES | YES on DFHTRIBM |
| 2 | DECIMAL | 40960 | TR_BLOCK_SIZE_TRAN_DU | BLOCK SIZE USE BY TRXDF |

TRFTE Feature trace entry header

CONTROL BLOCK NAME = DFHTRFTC
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
 FUNCTION = This is the header for a trace entry made by a Feature when the DFHTRFTM TRACE_PUT interface is used.
 It appears immediately after the TREN_HEADER for a Feature trace entry, as the first part of the TREN_DATA. The remaining trace entry data, supplied by the Feature as TRFT_DATAn (where n is between 1 and 7) on the TRFT TRACE_PUT call, follows immediately after the TRFTE_HEADER.
 LIFETIME = Created by DFHTRFT in the internal trace table for each TRACE_PUT. Destroyed when overwritten after the next trace table wrap. Trace entries are also held on auxiliary trace datasets and GTF datasets.
 STORAGE CLASS = Held in the internal trace table in MVS storage.
 LOCATION = Each trace table block contains a block header followed by as many entries contiguously as will fit in the rest of the block.
 INNER CONTROL BLOCKS =
 This is an inner control block to the DFHTREN.
 DFHTRFTE has no inner control blocks itself.
 NOTES :
 DEPENDENCIES = S/390
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|--|
| (0) | STRUCTURE | 94 | TRFTE | Feature trace entry |
| (0) | UNSIGNED | 2 | TRFTE_HEADER_LEN | Feature trace header length - excludes the length of this field itself |
| (2) | CHARACTER | 92 | TRFTE_HEADER | Feature trace header |
| (2) | UNSIGNED | 1 | TRFTE_VERSION | Feature trace header version |
| (3) | UNSIGNED | 1 | * | SPARE |
| (4) | CHARACTER | 30 | TRFTE_COMPANY_NAME | Feature company name |
| (22) | CHARACTER | 30 | TRFTE_FEATURE_NAME | Feature name |
| (40) | CHARACTER | 10 | TRFTE_FEATURE_LEVEL | Feature release level |
| (4A) | CHARACTER | 8 | TRFTE_FORMATTING_ROUTINE | Feature trace formatting routine |
| (52) | CHARACTER | 9 | TRFTE_ABBREV_NAME | Name for formatted trace |
| (5B) | BITSTRING | 1 | TRFTE_FLAGS | Feature trace entry flags |
| | 1... .. | | TRFTE_EXCEPTION_TRACE | Exception trace flag |
| | .111 1111 | | * | Spare |
| (5C) | CHARACTER | 2 | * | Spare |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------------|------------------------|
| (0) | STRUCTURE | 108 | TRFTW | FEATURE TRACE ENTRY |
| (0) | ADDRESS | 4 | TRFTW_FORMATTING_ADDRESS (6) | STORED ADDR |
| (18) | CHARACTER | 8 | TRFTW_FORMATTING_NAME (6) | STORED NAMES |
| (48) | CHARACTER | 4 | * | SPARE |
| (4C) | CHARACTER | 32 | TRFTW_WIPE_AREA | WIPED EACH CAL@BA70223 |
| (4C) | UNSIGNED | 1 | TRFTW_TRACE_TYPE | TYPES BELOW |
| (4D) | BITSTRING | 1 | TRFTW_FLAGS | |
| | 1... .. | | TRFTW_INTERPRETATION | FOREIGN CODE |
| | .1.. .. | | TRFTW_LOAD_FAILED | MVS LOAD |
| | ..1. | | TRFTW_NO_NAME | NO FORMAT |
| | ...1 | | TRFTW_FEATURE_ABEND | NO FORMAT |
| | 1... | | TRFTW_INT_OVERFLOW | NO FORMAT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------------|---------------|
| |111 | | * | SPARE |
| (4E) | UNSIGNED | 2 | TRFTW_LEN_LEFT | WORK AREA |
| (50) | ADDRESS | 4 | TRFTW_NAB | PTR WORK AREA |
| (54) | ADDRESS | 4 | TRFTW_DFHTRIB_ ADDRESS | TRIB ADDRESS |
| (58) | ADDRESS | 4 | TRFTW_CDPFTAB_ ADDRESS | CDURUN TABLE |
| (5C) | CHARACTER | 8 | TRFTW_MODULE_ NAME | FT MOD NAME |
| (64) | CHARACTER | 8 | * | SPARE |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-------------------|-------------------|
| 1 | DECIMAL | 0 | TRFTW_ENTRY | ENTRY |
| 1 | DECIMAL | 1 | TRFTW_EXIT | EXIT |
| 1 | DECIMAL | 2 | TRFTW_EXCEPTION | EXCEPTION@BA70223 |
| 1 | DECIMAL | 3 | TRFTW_DATA | DATA |
| 1 | DECIMAL | 4 | TRFTW_EVENT | EVENT |
| 1 | DECIMAL | 9 | TRFTW_RUB | |
| 1 | DECIMAL | 0 | TRFTW_RC_OK | OK |
| 1 | DECIMAL | 1 | TRFTW_RC_OVERFLOW | Overflow |

TRGTW Global trap working storage

CONTROL BLOCK NAME = DFHTRGTW
 DESCRIPTIVE NAME = CICS Global Trap (DFHTRAP) Working Storage
 FUNCTION = All of the working storage and register save areas etc. associated with the Global Trap (DFHTRAP).
 LIFETIME = Created by DFHTRSR when a TRAP=ON command is issued via the SIT or CSFE. Freed by DFHTRSR during CSFE TRAP=OFF processing.
 STORAGE CLASS = In MVS GETMAIN'd storage above 16M.
 LOCATION = The address is held in TRA_TRAP_WA_PTR in the TR domain anchor block (TRA).
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---|
| (0) | STRUCTURE | 328 | DFHTRGTW | Global trap (DFHTRAP).. ..working storage |
| (0) | CHARACTER | 72 | TRAP_REGSAVE | RSA for DFHTRAP |
| (48) | CHARACTER | 48 | TRAP_PLIST | DFHTRADS storage |
| (78) | BITSTRING | 4 | TRAP_FLAGS | Trap return action flags |
| | 1... .. | | TRAP_TRACE | Further trace entry required |
| | .1. | | TRAP_DUMP | System dump required |
| | ..1. | | * | Not used |
| | ...1 | | TRAP_ABCICS | Abend CICS |
| | 1... | | TRAP_DISABLE | Disable the trap |
| (78) | BITSTRING | 3 | * | Reserved |
| (7C) | CHARACTER | 104 | TRAP_TRPLIST | TRPT format parameter for requested entry |
| (E8) | CHARACTER | 96 | TRAP_WORK | Force D-word alignment for.. |
| (E8) | CHARACTER | 16 | TRAP_WORK_EYEC | 'DFHTRAP_WORKAREA' eyecatcher |
| (F8) | CHARACTER | 80 | TRAP_WORKAREA | Work area for DFHTRAP |

TSG Temporary storage domain statistics

CONTROL BLOCK NAME = DFHTSGDS
 DESCRIPTIVE NAME = CICS Temporary Storage statistics record.
 FUNCTION = Temporary Storage statistics record.
 LIFETIME = Record is constructed by DFHSTTS, then passed to the
 statistics domain.
 STORAGE CLASS =
 LOCATION =
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (0) | | | DFHTSGDS | Temp storage statistics |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | TSGLEN | Length of data area |
| | ..11 | | TSGIDE | "0048" TS stats mask |
| (2) | ADDRESS | 2 | TSGID | TS stats id |
| |1 | | TSGVERS | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | TSGDVERS | TS stats version number |
| (5) | CHARACTER | 3 | | Reserved |
| (8) | FULLWORD | 4 | TSGSTA5F | PUT/PUTQ main storage requests |
| (C) | FULLWORD | 4 | TSGNMG | GET/GETQ main storage requests |
| (10) | FULLWORD | 4 | TSGSTA6F | Peak storage for TS |
| (14) | FULLWORD | 4 | TSGSTA7F | PUT/PUTQ aux storage requests |
| (18) | FULLWORD | 4 | TSGNAG | GET/GETQ aux storage requests |
| (1C) | FULLWORD | 4 | TSGQNUMH | Peak TS names in use |
| (20) | FULLWORD | 4 | TSGQINH | Entries in longest Queue |
| (24) | HALFWORD | 2 | | Reserved |
| (26) | HALFWORD | 2 | | Reserved |
| (28) | FULLWORD | 4 | TSGSTA3F | Times queue created |
| (2C) | FULLWORD | 4 | | Reserved |
| (30) | FULLWORD | 4 | TSGCSA | Control interval size |
| (34) | FULLWORD | 4 | TSGSTABF | Writes more than control interval |
| (38) | FULLWORD | 4 | TSGNCI | CIs in TS dataset |
| (3C) | FULLWORD | 4 | TSGNCIAH | Peak CIs used |
| (40) | FULLWORD | 4 | TSGSTA8F | Times aux store exhausted |
| (44) | HALFWORD | 2 | TSGNBCA | No. TS Buffers |
| (46) | HALFWORD | 2 | | Reserved |
| (48) | FULLWORD | 4 | TSGBWTN | No. Buffer waits |
| (4C) | FULLWORD | 4 | TSGBUWTH | Peak users waiting on buffer |
| (50) | FULLWORD | 4 | TSGTWTN | Buffer writes |
| (54) | FULLWORD | 4 | TSGTWTNR | Writes force for recovery |
| (58) | FULLWORD | 4 | TSGTRDN | Buffer reads |
| (5C) | FULLWORD | 4 | TSGTWTNF | Format writes |
| (60) | HALFWORD | 2 | TSGNVCA | No. TS strings |
| (62) | HALFWORD | 2 | | Reserved |
| (64) | FULLWORD | 4 | TSGNVCAH | Peak strings in use |
| (68) | FULLWORD | 4 | TSGVWTH | Times string wait occurred |
| (6C) | FULLWORD | 4 | TSGVUWTH | Peak users waiting on string |
| (70) | FULLWORD | 4 | TSGSTAAF | I/O errors on TS dataset |
| (74) | FULLWORD | 4 | TSGSTA6A | Current storage for TS |
| (78) | FULLWORD | 4 | TSGSTA9F | No. TS compressions |
| (7C) | FULLWORD | 4 | TSGNCIA | Current CIs in use |
| (80) | FULLWORD | 4 | TSGVUWT | Users waiting on string |
| (84) | FULLWORD | 4 | TSGBUWT | Users waiting on buffer |
| (88) | FULLWORD | 4 | TSGQNUM | TS names in use |
| (8C) | FULLWORD | 4 | TSGLAR | Longest Auxiliary record length |
| (90) | FULLWORD | 4 | TSGNAV | No. available bytes per CI |
| (94) | FULLWORD | 4 | TSGSPCI | Segments per CI |
| (98) | FULLWORD | 4 | TSGBPSEG | Bytes per segment |
| (9C) | FULLWORD | 4 | TSGSHPDF | Shared pools defined |
| (A0) | FULLWORD | 4 | TSGSHPCN | Shared pools connected to |
| (A4) | FULLWORD | 4 | TSGSHRDS | Shared read requests |
| (A8) | FULLWORD | 4 | TSGSHWTS | Shared write requests |
| | 1.1. 11.. | | TSGEND | "" |
| | 1.1. 11.. | | TSGCLEN | ""-TSGLEN" Length of DSECT |

TSIOA Temporary storage input/output area

CONTROL BLOCK NAME = DFHTSIOA
 DESCRIPTIVE NAME = CICS Temporary Storage Input/Output Area.
 TEMPORARY STORAGE INPUT/OUTPUT AREA (TSIOA)
 The TSIOA is a class of user storage and is chained off the TCA (TCASCCA). It can be acquired by the user or, in response to a GET or GETQ request, it is acquired by the temporary storage program when no TSDADDR is specified. TSIOAs acquired by, or on behalf of, a user task are normally released by the task. If not, the area is freed by the task control program when the task is terminated.
 If necessary, an extension header is inserted in the TSIOA preceding the user data. This extension carries information specified on an EXEC CICS START command (for example, PROTECT FMH RTRANSID).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------|---|
| (0) | | | DFHTSIOA | DUMMY SECTION - TEMPORARY STORAGE I/O AREA USING STORAGE ACCOUNTING (CLASS=TEMPORARY STORAGE) |
| (0) | HALFWORD | 2 | | STORAGE ACCOUNTING - AREA LENGTH |
| (2) | HALFWORD | 2 | TSIOASAL | TRANSACTION STORAGE CHAIN ADDRESS |
| (4) | ADDRESS | 4 | TSIOASCA | VARIABLE RECORD LENGTH |
| (8) | HALFWORD | 2 | TSIOAVRL | RESERVED |
| (A) | HALFWORD | 2 | | "*-DFHTSIOA" CONTROL AREA DISPLACEMENT |
| 11.. | | | TSIOACAD | "*" DATA BEGINNING ADDRESS |
| 11.. | | | TSIOADBA | |

TST Temporary storage table

CONTROL BLOCK NAME = DFHTSTDS
 DESCRIPTIVE NAME = CICS Temporary Storage Table
 TEMPORARY STORAGE TABLE (TST)
 The temporary storage table (TST) is a list of generic mnemonics used:
 1. To identify temporary storage DATAIDs for which CICS is to provide recoverability in the event of abnormal termination of CICS and subsequent emergency restart.
 2. To identify DATAIDs for which security checking is to be performed.
 3. To identify DATAIDs on a remote system.
 4. To map selected remote system SYSIDs to shared queue pools.
 Each recovery entry in the table specifies the leading characters of user-defined DATAIDs for which CICS will provide protection (enqueueing) during a logical unit of work by an application program and automatic logging of the status of the data at task termination (or sync point). CSATSTBA in the CSA optional features list (CSAOPFL) points to the temporary storage table (TST).

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (0) | | | DFHTSTDS | |
| (0) | DBL WORD | 8 | TSTSTART (0) | |
| PREFIX | | | | |
| (0) | FULLWORD | 4 | TSTDTAGE | DATA AGE LIMIT IN 1.048576 SEC UNITS |
| (4) | ADDRESS | 4 | TSTADDRE | A(1ST RECOVERY ENTRY) OR 0 IF NONE PRESENT |
| (8) | ADDRESS | 4 | TSTADDRM | A(1ST REMOTE ENTRY) OR 0 IF NONE PRESENT |
| (C) | ADDRESS | 4 | TSTADDSE | A(1ST SECURITY ENTRY) OR 0 IF NONE PRESENT |
| (10) | BITSTRING | 8 | TSTHDX (0) | OPTIONAL HEADER EXTENSION ENTRY |
| (10) | HALFWORD | 2 | TSTHDXLN | HEADER EXTENSION ENTRY LENGTH |
| (12) | BITSTRING | 1 | TSTHDXFL | FLAG BYTE IN SAME FORM AS TSTFL |
| HEADER EXTENSION IS PRESENT IF TSTHDXBM IS SET IN THIS FLAG BYTE | | | | |
| (13) | BITSTRING | 1 | | RESERVED |
| (14) | ADDRESS | 4 | TSTADDSH | A(1ST SHARED POOL ENTRY) OR 0 IF NONE PRESENT |
| COMMON PART | | | | |
| (0) | HALFWORD | 2 | TSTLL | LENGTH OF ENTRY |
| (2) | BITSTRING | 1 | TSTFL | FLAG DESCRIBING ENTRY |
| 1... | | | TSTRCVBM | "X'80" RECOVERABLE |
| .1... | | | TSTRMTBM | "X'40" REMOTE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|------------|-----|-------------|--|
| | ..1. | | TSTRNMBM | "X'20" REMOTE PREFIX GIVEN |
| | ...1 | | TSTRSLBM | "X'10" RESOURCE SECURITY LEVEL CHK |
| | 1... | | TSTSHRBM | "X'08" SHARED POOL ENTRY |
| |1.. | | TSTMIGBM | "X'04" MIGRATE FLAG (1 IF MIGRATE=YES) |
| |1. | | TSTHDXBM | "X'02" HEADER EXTENSION ENTRY |
| |1 | | TSTLSTBM | "X'01" =1 FOR LAST ENTRY |
| (3) | SIGNED | 1 | | RESERVED |
| (4) | BITSTRING | 1 | | RESERVED |
| (5) | BITSTRING | 1 | TSTPL | PREFIX LENGTH-1 |
| (6) | CHARACTER | 8 | TSTPRFX (0) | PREFIX |
| (6) | CHARACTER | 8 | TSTPOOL (0) | POOL NAME IN SHARED POOL ENTRY |
| (6) | CHARACTER | 4 | | FIRST FOUR BYTES |
| (A) | CHARACTER | 4 | | LAST FOUR - INCLUDED ONLY WHEN PREFIX GREATER THAN FOUR BYTES, OR REMOTE |
| REMOTE ONLY | | | | |
| (E) | CHARACTER | 4 | TSTSYS | REMOTE SYSTEM ID |
| REMOTE AND TSTRNMBM=1 ONLY | | | | |
| (12) | CHARACTER | 8 | TSTRPFX | REMOTE PREFIX (TSTPL GIVES ACTUAL LENGTH-1) |

TSUE Temporary storage EXEC parameter list

CONTROL BLOCK NAME = DFHTSUEC
 DESCRIPTIVE NAME = CICS EXEC parameter list for Temporary
 Storage user exits.

Although provided in a general library, DFHTSUED is not
 to be used as a general programming interface. Refer to
 product documentation to determine intended usage.

The following fields are part of the Product-sensitive
 Programming Interface.

TS_ADDR0
 TS_ADDR1
 TS_ADDR2
 TS_ADDR3
 TS_ADDR4
 TS_ADDR5
 TS_ADDR7
 TS_GROUP
 TS_FUNCT
 TS_BITS1
 TS_EIDOPT5
 TS_EIDOPT6
 TS_EIDOPT7
 TS_EIDOPT8
 TS_QUEUE
 TS_WRITEQ_QUEUE
 TS_READQ_QUEUE
 TS_DELETEQ_QUEUE
 TS_QNAME
 TS_WRITEQ_QNAME
 TS_READQ_QNAME
 TS_DELETEQ_QNAME
 TS_READQ_SET
 TS_READQ_INT0
 TS_WRITEQ_FROM
 TS_LENGTH
 TS_WRITEQ_LENGTH
 TS_READQ_LENGTH
 TS_READQ_NUMITEMS
 TS_WRITEQ_NUMITEMS
 TS_ITEM
 TS_WRITEQ_ITEM
 TS_READQ_ITEM
 TS_SYSID
 TS_WRITEQ_SYSID
 TS_READQ_SYSID
 TS_DELETEQ_SYSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2
 form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter
 List are product sensitive and may vary between CICS
 releases.

FUNCTION =

To define the EXEC parameter list for Temporary Storage
 requests, for use by global user exit programs at exit
 points XTSEREQ and XTSEREQC.

On entry to the XTSEREQ and XTSEREQC User Exits, the EXEC
 parameter list is pointed to by UEPCLPS.

The EXEC parameter list for Temporary Storage consists of
 eight addresses.

The eight addresses are defined by TS_ADDR0 to TS_ADDR7.

This DSECT defines these addresses and the areas that
 they point to.

On entry to the XTSEREQ and XTSEREQC User Exits, the copy
 of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP
 is pointed to by UEPRESP and the copy of EIBRESP2 is
 pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,
 EIBRESP and EIBRESP2 used by Temporary Storage.

LIFETIME = Lifetime of the TS command request

STORAGE CLASS = As the storage being mapped is the translated
 source in the user's application program, the
 storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.

(2) Fields copied from the EIB are addressed by
 UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between
 XTSEREQ and XTSEREQC is addressed by UEPTQTOK.

INNER CONTROL BLOCKS =

TS_ADDR_LIST declares the EXEC addresses.

TS_EID defines the EID pointed to by TS_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None
 CONTROL BLOCKS = None
 GLOBAL VARIABLES (Macro pass) = None

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.

For example, address 1 is of the TS QUEUE (if used) for all TS commands, whereas the address 2 is of the FROM data area on WRITEQ commands, the SET address or INTO data area for READQ commands, and is not valid for DELETEQ commands.

The existence bits in the EID component (TS_BITS1) specify those addresses that are valid, and the flagword bits (TS_EIDOPT5 - TS_EIDOPT8) specify the keywords that were given in the EXEC CICS TS command.

Therefore, you can deduce the usage of each address by testing these bits in conjunction with the command function(TS_FUNCT).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|--------------|-------------------------|
| (0) | STRUCTURE | 32 | TS_ADDR_LIST | Addresses of... |
| (0) | ADDRESS | 4 | TS_ADDR0 | the EID |
| (4) | ADDRESS | 4 | TS_ADDR1 | QUEUE/QNAME |
| (8) | ADDRESS | 4 | TS_ADDR2 | FROM data area (WRITEQ) |
| INTO data area (READQ) SET address (READQ) | | | | |
| (C) | ADDRESS | 4 | TS_ADDR3 | LENGTH value |
| (10) | ADDRESS | 4 | TS_ADDR4 | NUMITEMS value (READQ) |
| (14) | ADDRESS | 4 | TS_ADDR5 | ITEM value |
| NUMITEMS value (WRITEQ) | | | | |
| (18) | ADDRESS | 4 | * | Reserved |
| (1C) | ADDRESS | 4 | TS_ADDR7 | SYSID |

TS_EID (addressed by TS_ADDR0) gives the command function, and contains the existence and flagword bits.
 Note: Equates for TS_GROUP, TS_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|------------------|
| (0) | STRUCTURE | 9 | TS_EID | |
| (0) | CHARACTER | 1 | TS_GROUP | '0A'X for TS |
| (1) | CHARACTER | 1 | TS_FUNCT | '02'X for WRITEQ |

'04'X for READQ
 '06'X for DELETEQ

The existence bits (TS_BITS1) specify the parameters that are valid for this command.

For example, TS_EXIST7 set on indicates that TS_ADDR7 is valid, meaning that it addresses a SYSID value.

TS_ADDR0 is always valid and has no existence bit.

A user exit program at XTSEQ can set the TS_EXIST7 bit on or off for all TS commands. All other changes will be ignored.

| | | | | |
|-----|-----------|---|------------------------------|-----------------------------|
| (2) | BITSTRING | 1 | TS_BITS1 | |
| | | | 1... .. TS_EXIST1 | QUEUE/QNAME - ALWAYS SET |
| | | | 1... .. TS_QUEUE_V | |
| | | | 1... .. TS_WRITEQ_QUEUE_V | |
| | | | 1... .. TS_READQ_QUEUE_V | |
| | | | 1... .. TS_DELETEQ_QUEUE_V | |
| | | | .1.. .. TS_EXIST2 | |
| | | | .1.. .. TS_WRITEQ_FROM_V | |
| | | | .1.. .. TS_READQ_SET_INTO_V | |
| | | | ..1. TS_EXIST3 | |
| | | | ..1. TS_LENGTH_V | |
| | | | ..1. TS_WRITEQ_LENGTH_V | |
| | | | ..1. TS_READQ_LENGTH_V | |
| | | | ...1 TS_EXIST4 | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|-------------|
| 1... | | | TS_READQ_ | |
| 1... | | | NUMITEMS_V | |
| 1... | | | TS_EXIST5 | |
| 1... | | | TS_WRITEQ_ | |
| 1... | | | ITEM_NUMITEMS_V | |
| 1... | | | TS_READQ_ ITEM_V | |
|1.. | | | * | |
|1. | | | TS_EXIST7 | |
|1. | | | TS_SYSID_V | |
|1. | | | TS_WRITEQ_ SYSID_V | |
|1. | | | TS_READQ_ SYSID_V | |
|1. | | | TS_DELETEQ_ | |
|1. | | | SYSID_V | |
|1 | | | * | Reserved |
| (3) | BITSTRING | 2 | * | Reserved |

The next 4 bytes (TS_EIDOPT5 - TS_EIDOPT8) are the flagword bits. Some bits have more than one meaning, depending on the command function, and these are named accordingly.
A user exit program at XTSEREQ can set the TS_WRITEQ_MAIN_X and TS_WRITEQ_NOSUSPEND_X bits on or off for all WRITEQ commands. All other changes will be ignored.

| | | | | |
|-----------|-----------|---|------------------|----------------------------|
| (5) | BITSTRING | 1 | TS_EIDOPT5 | |
| 1... | | | TS_QNAME_X | QNAME, otherwise QUEUE@L3C |
| .111 111. | | | * | Reserved |
|1 | | | TS_READQ_SET_X | SET, otherwise INTO |
| (6) | BITSTRING | 1 | TS_EIDOPT6 | |
| (6) | BITSTRING | 1 | * | Reserved |
| (7) | BITSTRING | 1 | TS_EIDOPT7 | |
| 111. | | | * | Reserved |
| ...1 | | | TS_WRITEQ_ | |
| | | | NOSUSPEND_X | |
| | | | * | NOSUSPEND |
| 1... | | | TS_WRITEQ_MAIN_X | MAIN, otherwise AUXILIARY |
| 1... | | | TS_READQ_ITEM_X | ITEM |
|1.. | | | * | |
|1.. | | | TS_WRITEQ_ | |
| | | | REWRITE_X | |
| | | | | REWRITE |
|1.. | | | TS_READQ_ | |
| | | | NUMITEMS_X | |
| | | | * | NUMITEMS |
| (8) | BITSTRING | 1 | TS_EIDOPT8 | |
| 1... | | | * | |
| 1... | | | TS_WRITEQ_ITEM_X | ITEM, otherwise NUMITEMS |
| .111 1111 | | | * | |

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TS_ADDR1 - TS_ADDR7 in TS_ADDR_LIST.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 8 | TS_DATA1 | |
| (0) | CHARACTER | 8 | TS_QUEUE | the QUEUE name |
| (0) | CHARACTER | 8 | TS_WRITEQ_QUEUE | |
| (0) | CHARACTER | 8 | TS_READQ_QUEUE | |
| (0) | CHARACTER | 8 | TS_DELETEQ_QUEUE | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|-------------------------|
| (0) | STRUCTURE | 16 | TS_DATA1X | |
| (0) | CHARACTER | 16 | TS_QNAME | the QNAME, if specified |
| (0) | CHARACTER | 16 | TS_WRITEQ_QNAME | |
| (0) | CHARACTER | 16 | TS_READQ_QNAME | |
| (0) | CHARACTER | 16 | TS_DELETEQ_QNAME | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------|---------------|
| (0) | STRUCTURE | * | TS_DATA2 | |
| (0) | CHARACTER | * | TS_READQ_INT0 | the INTO area |
| (0) | CHARACTER | * | TS_WRITEQ_FROM | the FROM area |
| (0) | ADDRESS | 4 | TS_READQ_SET | SET address |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-------------------|
| (0) | STRUCTURE | 2 | TS_DATA3 | |
| (0) | HALFWORD | 2 | TS_LENGTH | the record LENGTH |
| (0) | HALFWORD | 2 | TS_WRITEQ_LENGTH | |
| (0) | HALFWORD | 2 | TS_READQ_LENGTH | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|--------------------------|
| (0) | STRUCTURE | 2 | TS_DATA4 | |
| (0) | HALFWORD | 2 | TS_READQ_NUMITEMS | NUMITEMS value for READQ |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|---------------------------|
| (0) | STRUCTURE | 2 | TS_DATA5 | |
| (0) | HALFWORD | 2 | TS_WRITEQ_NUMITEMS | NUMITEMS value for WRITEQ |
| (0) | HALFWORD | 2 | TS_ITEM | the ITEM value |
| (0) | HALFWORD | 2 | TS_WRITEQ_ITEM | |
| (0) | HALFWORD | 2 | TS_READQ_ITEM | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|----------------|
| (0) | STRUCTURE | 4 | TS_DATA7 | |
| (0) | CHARACTER | 4 | TS_SYSID | the SYSID name |
| (0) | CHARACTER | 4 | TS_WRITEQ_SYSID | |
| (0) | CHARACTER | 4 | TS_READQ_SYSID | |
| (0) | CHARACTER | 4 | TS_DELETEQ_SYSID | |

Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|-----------------------|---|
| 1 | HEX | 0A | TS_TEMPSTOR_GROUP | |
| Equates for TS_ FUNCT values. | | | | |
| 1 | HEX | 02 | TS_WRITEQ | WRITEQ |
| 1 | HEX | 04 | TS_READQ | READQ |
| 1 | HEX | 06 | TS_DELETEQ | DELETEQ |
| Start of General Use Programming Interface. Equates for EIBRCODE values used by Temporary Storage. | | | | |
| 1 | HEX | 00 | TS_OK_EIBRCODE | |
| 1 | HEX | 20 | TS_INVREQ_EIBRCODE | |
| 1 | HEX | 04 | TS_IOERR_EIBRCODE | |
| 1 | HEX | D1 | TS_ISCINVREQ_EIBRCODE | |
| 1 | HEX | 01 | TS_ITEMERR_EIBRCODE | |
| 1 | HEX | E1 | TS LENGERR_EIBRCODE | |
| 1 | HEX | 08 | TS_NOSPACE_EIBRCODE | |
| 1 | HEX | D6 | TS_NOTAUTH_EIBRCODE | |
| 1 | HEX | 02 | TS_QIDERR_EIBRCODE | |
| 1 | HEX | D0 | TS_SYSIDERR_EIBRCODE | |
| 1 | HEX | 03 | TS_LOCKED_EIBRCODE | |
| Equates for EIBRESP values used by Temporary Storage. | | | | |
| 1 | DECIMAL | 0 | TS_OK_EIBRESP | |
| 1 | DECIMAL | 16 | TS_INVREQ_EIBRESP | |
| 1 | DECIMAL | 17 | TS_IOERR_EIBRESP | |
| 1 | DECIMAL | 54 | TS_ISCINVREQ_EIBRESP | |
| 1 | DECIMAL | 26 | TS_ITEMERR_EIBRESP | |
| 1 | DECIMAL | 22 | TS LENGERR_EIBRESP | |
| 1 | DECIMAL | 18 | TS_NOSPACE_EIBRESP | |
| 1 | DECIMAL | 70 | TS_NOTAUTH_EIBRESP | |
| 1 | DECIMAL | 44 | TS_QIDERR_EIBRESP | |
| 1 | DECIMAL | 53 | TS_SYSIDERR_EIBRESP | |
| 1 | DECIMAL | 100 | TS_LOCKED_EIBRESP | |
| Equates for EIBRESP2 values used by Temporary Storage. | | | | |
| 1 | DECIMAL | 0 | TS_OK_EIBRESP2 | OK |
| 1 | DECIMAL | 101 | TS_NOTAUTH_EIBRESP2 | NOTAUTH |
| 1 | DECIMAL | 0 | TS_LOCKED_EIBRESP2 | LOCKED *.....*.....*.....*.....*.....*.....*.....*.....*.....* End of General Use *** ** Programming Interface *- *.....*.....*.....* |

TTP Terminal type parameter

MODULE NAME = DFHTTPDS
 DESCRIPTIVE NAME = CICS Terminal Type Parameter
 FUNCTION = Defines the terminal type parameter. This control block contains terminal type or partition or LDC specific data. The OSPWA addresses a chain of direct TTPS (one per partition or LDC) and if routing is in effect the OSPWA addresses a chain of routed TTPS, one per target terminal type. Note that routing and LDCS or partitions are mutually exclusive. TTPS are built by DFHRLR, and freed by DFHMCP on SEND PAGE.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = NONE
 REGISTER CONVENTIONS = NOT APPLICABLE
 PATCH LABEL = NONE
 MODULE TYPE = DSECT
 MODULE SIZE = xxxx (dddd DECIMAL) BYTES
 ATTRIBUTES = DSECT
 ENTRY POINT = NOT APPLICABLE
 PURPOSE = SEE FUNCTION
 LINKAGE = NOT APPLICABLE
 INPUT = NOT APPLICABLE
 OUTPUT = NOT APPLICABLE
 EXIT-NORMAL = NOT APPLICABLE
 EXIT-ERROR = NOT APPLICABLE
 EXTERNAL REFERENCES = NOT APPLICABLE
 CONTROL BLOCKS = NOT APPLICABLE
 TABLES = NONE
 MACROS = NONE

TERMINAL TYPE PARAMETERS
 COMMON CONTROL AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|-------------|--|
| (0) | | | DFHTTPPCM | DUMMY SECTION PART 1 - TTP |
| (0) | DBL WORD | 8 | | STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER |
| | 1... | | TTPSTRT | *** |
| (8) | CHARACTER | 8 | TTPCBID | TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTP CREATED |
| | ...1 | | TTPSTRT1 | *** START OF REAL TTP DATA |
| (10) | BITSTRING | 2 | TTPTTID (0) | TERMINAL TYPE PARAMETER ID |
| 'TTPDDS' & 'TTPMSUF' EQUATES CAN BE FOUND AT END OF DSECT | | | | |
| (10) | BITSTRING | 1 | TTPDDS | DEVICE DEPENDENCE SUFFIX |
| (11) | BITSTRING | 1 | TTPMSUF | MAP SUFFIX |
| (12) | CHARACTER | 2 | TTPLCDMN | LOGICAL DEVICE CODE MNEMONIC OR OUTPARTN VALUE I.E. NAME OF O/P PARTITION |
| (14) | BITSTRING | 1 | TTPLDCTT | LDC TERMINAL TYPE |
| (15) | BITSTRING | 1 | TTPDSP | DATA STREAM PROFILE |
| (16) | BITSTRING | 2 | TTPTFS (0) | ALL TERMINAL FEATURES BYTES |
| (16) | BITSTRING | 1 | TTPTF | FLAGS FROM 'TCTTET' |
| (17) | BITSTRING | 1 | TTPTF2 (0) | TERMINAL FEATURES (CONTD) |
| EQUATES FOR 'TTPTFS' ARE THE SAME AS FOR 'TCTTET' | | | | |
| (17) | BITSTRING | 1 | TTPDVC | BMS DEVICE FROM 'TCTTEDVC' |
| (18) | HALFWORD | 2 | TTPCNT | COUNT OF TERMINAL IDENTIFICATION IN THIS TTP |
| (1A) | BITSTRING | 4 | TTPPOF (0) | PAGEBLD OVERFLOW INFORMATION |
| (1A) | HALFWORD | 2 | TTPPGNO | CURRENT PAGE NUMBER |
| (1C) | HALFWORD | 2 | TTPOCN | PAGEBLD OVERFLOW CONTROL NUMBER |
| (20) | ADDRESS | 4 | TTPCHAIN | ADDRESS OF NEXT TTP |
| (24) | ADDRESS | 4 | TTPPGBUF | ADDRESS OF PAGE BUILD BUFFER |
| (28) | ADDRESS | 4 | TTPDCCAD | A(DEVICE CONTROL CHARACTER SET) |
| (2C) | ADDRESS | 4 | TTPMLA | A(ALREADY LOADED MAP(SET)) |
| (30) | ADDRESS | 4 | TTPMAPA | MAP ADDRESS WITHIN MAPSET |
| (34) | ADDRESS | 4 | TTPMMFCP | LAST MODIFIED MAP (FORWARD CHAIN POINTER) OR CURRENT MCA ADDRESS * |
| (38) | ADDRESS | 4 | TTPTFMA | TAB FORMAT MAP ADDRESS |
| (3C) | CHARACTER | 2 | TTPAVAF (0) | VALID DEST ATTRIBUTES |
| (3C) | BITSTRING | 1 | TTPAVAL | VALID ATTRS FOR DEST--BYTE1 |
| (3D) | BITSTRING | 1 | TTPAVA2 | VALID ATTRS FOR DEST--BYTE2 |
| (3E) | BITSTRING | 1 | TTPAVA3 | RESERVED |
| (3F) | CHARACTER | 2 | TTPAUSF (0) | DATASTREAM ATTRIBUTES |
| (3F) | BITSTRING | 1 | TTPAUSE | ATTRS USED IN DATASTREAM--BYTE1 |
| (40) | BITSTRING | 1 | TTPAUS2 | ATTRS USED IN DATASTREAM--BYTE2 |
| (41) | BITSTRING | 1 | TTPAUS3 | RESERVED |
| EQUATES FOR TTPAVAL AND TTPAUSE | | | | |
| | 1... | | TTPEXTDS | "X'80" IN TTPAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE |
| | .1.. | | TTPACOL | "X'40" COLOUR ATTR SUPPORTED/USED |
| | ..1. | | TTPAPSS | "X'20" PSS ATTR SUPPORTED/USED |
| | ...1 | | TTPAHLT | "X'10" HIGHLIGHT ATTR SUPPORTED/USED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| | 1... | | TTPEAVLD | "X'08" VALIDATION ATTRIBUTES SUPPORT / USED |
| |1.. | | TTPEAPRT | "X'04" PARTITIONS SUPPORTED |
| |1. | | TTPEAMSR | "X'02" MSR SUPPORTED/USED |
| |1 | | TTPEAAPR | "X'01" ACTIVATE PARTITION USED |
| EQUATES FOR TTPEAVA2 AND TTPEAUS2 | | | | |
| | 1... | | TTPEAFRL | "X'80" OUTLINE ATTR SUPPORTED/USED |
| | .1.. | | TTPEAMIX | "X'40" SOSI ATTR SUPPORTED/USED |
| | .1. | | TTPEABTR | "X'20" BACKGROUND TRANSP SUPP/USED |
| |1 | | TTPEASA | "X'01" SA SUPPORTED/USED |
| (42) | CHARACTER | 1 | TTPASUFIX | ALTERNATE SUFFIX FROM TCTTE |
| (43) | CHARACTER | 1 | TTPTSQUL | TEMPORARY STORAGE QUALIFICATION |
| CONTROL RECORD (MCR) | | | | |
| (44) | CHARACTER | 1 | TTPMSZL | MAP HEIGHT IN LINES |
| (45) | CHARACTER | 1 | TTPMSZC | MAP WIDTH IN COLUMNS |
| (46) | CHARACTER | 1 | TTPMSL | RELOCATED MAP LINE POSITION |
| (47) | CHARACTER | 1 | TTPMSC | RELOCATED MAP COLUMN POSN |
| (48) | CHARACTER | 8 | TTPMLN | NAME BY WHICH MAP GOT LOADED |
| (50) | HALFWORD | 2 | TTPTXPTR | TEXTBLD TIOA POINTER, SAVE AREA |
| (52) | HALFWORD | 2 | TTPDATO | OFFSET FROM PBDDSADR TO DATA |
| (54) | HALFWORD | 2 | TTPCURSR | CURSOR POSITION |
| (58) | ADDRESS | 4 | TTP32SFP | ADDRESS OF 3270E OUTBOUND STRUCTURED FIELD |
| (5C) | BITSTRING | 2 | TTPDSPSZ (0) | MOST RESTRICTIVE DISPLAY SIZE |
| (5C) | BITSTRING | 1 | TTPLINES | MOST RESTRICTIVE DISPLAY LENGTH |
| (5D) | BITSTRING | 1 | TTPCOLS | MOST RESTRICTIVE DISPLAY WIDTH |
| (5E) | BITSTRING | 1 | TTPPFTS | TRAILER SIZE (NUMBER OF LINES) |
| (5F) | BITSTRING | 1 | TTPTFMI | TAB FORMAT MAP INDICATOR |
| | .1. | | TTPTFMH | "X'20" HORIZONTAL TABS |
| | .1. | | TTPTFMV | "X'40" VERTICAL TABS |
| (60) | BITSTRING | 1 | TTPIND01 (0) | TTP INDICATOR ONE |
| (60) | BITSTRING | 1 | TTPREQ | PAGE BUILD REQUEST CONTROL BYTE |
| | 1... | | TTPTXTO | "X'80" TEXTBLD PAGE OVERFLOW |
| | .1.. | | TTP3270 | "X'40" 3270 INDICATOR |
| | .1. | | TTPSM | "X'20" TTPMLN CONTAINS A SUFFIXED NAME |
| | ...1 | | TTPTXTB | "X'10" TEXTBLD DATA IN BUFFER |
| | 1... | | TTPERAS | "X'08" ERASE WITH WRITE |
| |1.. | | TTPML1 | "X'04" ML1 TO BE CALLED |
| |1. | | TTPJL | "X'02" JUSTIFY = LAST |
| |1 | | TTPJF | "X'01" JUSTIFY = FIRST |
| (61) | BITSTRING | 1 | TTPIND02 | TTP INDICATOR TWO |
| | 1... | | TTPOFIP | "X'80" TEXTBLD OVERFLOW IN PROCESS |
| | .1.. | | TTPMAPIP | "X'40" MAPPING IN PROCESS |
| | .1. | | TTPHDRJP | "X'20" HEADER JUST PROCESSED |
| | ...1 | | TTPALARM | "X'10" USER SAID CTRL=ALARM -- SO DSB SETS ALARM IN 3601 FMH |
| | 1... | | TTPWWW | "X'08" WAIT WHEN WRITING THIS PAGE |
| |1.. | | TTPPFODO | "X'04" A PAGE WAS FORCED OUT DURING PAGEBLD OVERFLOW |
| |1. | | TTPLDCDF | "X'02" DEFAULT TTP FOR LOGICAL DEVICE CODE PROCESSING |
| |1 | | TTPNXDC | "X'01" NO INITIAL DDC ON PAGE 1 |
| (62) | BITSTRING | 1 | TTPIND03 | TTP INDICATOR THREE |
| | 1... | | TTPMLDC | "X'80" TTP HAS MULTIPLE LDC'S OR PARTITIONS |
| | .1.. | | TTDIRCT | "X'40" THIS IS A DIRECT TTP |
| | .1. | | TTPTRAN | "X'20" 3270 TRANSPARENCY NEEDED |
| | ...1 | | TTPTRAND | "X'10" 3270 TRANSPARENCY ALLOWED FOR IN TIOA |
| | 1... | | TTPWSFYS | "X'08" WSF NEEDED FOR THIS PAGE |
| |1.. | | TTPDOOBF | "X'04" DOING OUTBOARD FORMATTING |
| |1. | | TTPEAU | "X'02" ERASE ALL UNPROTECTED |
| |1 | | TTPFMHYS | "X'01" FMH PRESENT IN THIS PAGE |
| (63) | BITSTRING | 4 | TTPPFWRK (0) | PAGE FORMATTING WORK AREA |
| TTPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN OSPPFWRK | | | | |
| (63) | BITSTRING | 1 | TTPPFCL | CURRENT LINE POINTER |
| (64) | BITSTRING | 1 | TTPPFNFL | NEXT AVAILABLE FULL LINE POINTER |
| (65) | BITSTRING | 1 | TTPPFNCL | NEXT AVAILABLE COLUMN FROM LEFT |
| (66) | BITSTRING | 1 | TTPPFNCR | NEXT AVAILABLE COLUMN FROM RIGHT |
| (67) | BITSTRING | 1 | TTPPFLRC | LAST REQUESTED COLUMN FROM LEFT |
| (68) | BITSTRING | 1 | TTPPFRRC | LAST REQUESTED COLUMN FROM RIGHT |
| (69) | BITSTRING | 1 | TTPPFCNT | NUMBER OF FMH PARAMETERS ON THIS PAGE |
| | ...1 111. | | TTPMXFMP | "30" MAXIMUM NUMBER OF FMH PARAMETERS PER PAGE IS 30 |
| (6A) | BITSTRING | 1 | TTPIND06 | TTP INDICATOR SIX |
| | 1... | | TTPASCSA | "X'80" TTP FOR ALTERNATE SCREEN SIZE |
| (6B) | BITSTRING | 1 | TTPIND04 | TTP INDICATOR FOUR |
| | 1... | | TTP36OBF | "X'80" 3650 OBF NEEDED FOR THIS PAGE |
| | .1.. | | TTPWSOBF | "X'40" WSF OBF NEEDED FOR THIS PAGE |
| | .1. | | TTPNUSED | "X'20" DIRECT TTP IS NOT USED |
| | ...1 | | TTPPRTN | "X'10" THIS TTP IS FOR A PARTITION |
| | 1... | | TTPTPRT | "X'08" TERM SUPPORTS PARTITIONS M32 BUILDS 3270E OUTBOUND |
| |1.. | | TTPMODOR | "X'04" OBF MAP HAS BEEN RELOCATED |
| |1. | | TTPMAP1 | "X'02" THE FIRST MAP IN A CHAIN OF MAP COPIES IS BEING HANDLED |
| |1 | | TTPMHCRT | "X'01" A MAP HEADER EXTENSION AREA MUST BE CREATED |
| (6C) | HALFWORD | 2 | TTPSCSA (0) | SCREEN SIZE (MINIMUM) |
| (6C) | CHARACTER | 1 | TTPSCSL | SCREEN SIZE LINES |
| (6D) | CHARACTER | 1 | TTPSCSC | SCREEN SIZE COLUMNS |
| (6E) | CHARACTER | 13 | TTPATTR (0) | ATTRIBUTE WORK AREA |
| (6E) | CHARACTER | 1 | TTTFA | 3270 ATTRIBUTE |
| (6F) | CHARACTER | 12 | TTPXATTR (0) | EXTENDED ATTRIBUTE WORK AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (6F) | CHARACTER | 1 | TTPCOL | COLOUR ATTRIBUTE |
| (70) | CHARACTER | 1 | TTPPSS | PSS ATTRIBUTE |
| (71) | CHARACTER | 1 | TTPHL | HIGHLIGHT ATTRIBUTE |
| (72) | CHARACTER | 1 | TTPVAL | VALIDATION ATTRIBUTE |
| (73) | CHARACTER | 1 | TTPOUTLN | OUTLINE ATTRIBUTE |
| (74) | CHARACTER | 1 | TTPSOSI | SOSI ATTRIBUTE |
| (75) | CHARACTER | 1 | TTPBKTRN | BACKGROUND TRANSPARENCY ATTR |
| (76) | CHARACTER | 5 | | RESERVED |
| (7B) | CHARACTER | 12 | TTPTXAT (0) | EXTENDED ATTRIBUTE WORK AREA FOR TEXT BUILD |
| (7B) | CHARACTER | 1 | TTPTCOL | COLOUR ATTRIBUTE (TEXT BUILD) |
| (7C) | CHARACTER | 1 | TTPTPSS | PSS ATTRIBUTE (TEXT BUILD) |
| (7D) | CHARACTER | 1 | TTPTHL | HIGHLIGHT ATTRIBUTE(TEXT BUILD) |
| (7E) | CHARACTER | 1 | TTPTOUTL | OUTLINE ATTRIBUTE (TEXT BUILD) |
| (7F) | CHARACTER | 1 | TTPTBKTR | BACKGROUND TRANSPARENCY ATTRIBUTE (TEXT BUILD) |
| (80) | CHARACTER | 7 | | RESERVED |
| (87) | BITSTRING | 1 | TTPIND05 | TTP INDICATOR FIVE |
| | 1... .. | | TTPPGPGB | "X'80" PAGE BUILD ON THIS LDC/PARTN |
| | .1. | | TTPPGTXB | "X'40" TEXT BUILD ON THIS LDC/PARTN |
| | ..1. | | TTPPGNSC | "X'20" SEND COMMAND OTHER THAN SEND CONTROL ON THIS PAGE |
| | ...1 | | TTP16BIT | "X'10" PAGE HAS 14- OR 16-BIT SBAS |
| | 1... | | TTPFF | "X'08" FORM FEED REQUESTED |
| |1.. | | TTPATSKP | "X'04" NO ATTR FOR TEXT PRINTER |
| |1. | | TTPNOSC | "X'02" REMOVE SO / SI CHARS IN DATA |
| |1 | | TTPKA | "X'01" KATAKANA TERMINAL |
| (88) | CHARACTER | 1 | TTPOPPID | PID OF OUTPUT PARTITION |
| (89) | CHARACTER | 2 | TTPAPNM | NAME OF ACTIVE PARTITION |
| (8B) | CHARACTER | 1 | TTPAPID | PID OF ACTIVE PARTITION |
| (8C) | CHARACTER | 4 | TTPMGMSR | MAGNETICS MSR VALUE |
| (90) | CHARACTER | 8 | TTPSFGNM | NAME OF SELECTED FORMAT GROUP FOR THIS PARTITION |
| (98) | CHARACTER | 12 | TTPSAVXR | TEMPORARY WORK AREA FOR DFHM32 |
| (A4) | CHARACTER | 12 | TTPSAVX2 | TEMPORARY WORK AREA FOR DFHM32 |
| (B0) | DBL WORD | 8 | TTPCMEND (0) | END COMMON CONTROL AREA |

THE REMAINING SECTION OF THE TTP REPEATS ITSELF WHENEVER ADDITIONAL ADDRESS SPACE IS ACQUIRED TO CONTINUE THE ROUTE LIST FOR THAT TERMINAL TYPE
REPEATED ROUTE LIST AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHTTPRE | DUMMY SECTION PART 2 - TTP |
| (0) | CHARACTER | 8 | TTPRCBID | TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED |
| (8) | ADDRESS | 4 | TTPLCHA | ADDRESS OF NEXT ROUTE LIST SEGMENT |
| | 11.. | | TTPL | "" START OF ROUTE LIST |
| | 1... | | RLENTY | "8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST |
| | 11.. | | TTPLRES | "" ROUTE LIST ENTRY START |
| (C) | ADDRESS | 4 | TTPTCTTE | TCTTE ADDRESS IF NOT REMOTE TERMINAL A(SKELETON TCTTE) OTHERWISE |
| (10) | BITSTRING | 1 | TTPLDCCD | LOGICAL DEVICE CODE (LDC) |
| (11) | CHARACTER | 2 | TTPLDMNM | LDC MNEMONIC |
| (13) | BITSTRING | 1 | TTPRETYP | ROUTE ENTRY TYPE |
| | 1... .. | | TTPREREM | "X'80" REMOTE TERMINAL |
| (14) | CHARACTER | 3 | TTPOPID | OPERATOR IDENTIFICATION |
| (17) | BITSTRING | 1 | TTPSF | PAGING STATUS FLAG ONLY |
| | 1... .. | | TTPSFPG | "TCTTEPGP" PAGING STATUS |

REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE

| | | | | |
|------|-----------|-----|----------|---|
| (18) | CHARACTER | 8 | TTPDSN | DESTINATION NAME |
| | ..1. | | TTPRLEE | "" ROUTE LIST ENTRY END |
| | ...1 .1.. | | TTPLREL | "TTPRLEE-TTPRLES" ROUTE LIST ENTRY LENGTH |
| (20) | BITSTRING | 4 | TTPSEEND | SINGLE ENTRY STOPPER |
| (C) | CHARACTER | (0) | | ROUTE LIST |
| (AC) | BITSTRING | 4 | TTPLREND | ROUTE LIST STOPPER |
| | 11.. 11.. | | TTPLENSE | "(TTPCMEND-TTPSTRT)+(TTPRLEE-DFHTTPRE)+L'TTPSEEND" LENGTH OF SINGLE ENTRY TTP |
| (AC) | | | TTPLEN | "(TTPCMEND-TTPSTRT)+('DFHTTPRE)" LENGTH OF TTP |

DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES

| | | |
|------------|----------|-----------------------------------|
| 11.. ...1 | DSCRPL | "C'A" CRPL - DEVICE DEPEND SUFFIX |
| 11.. ...1 | MSCRPL | "C'A" MAP SET SUFFIX |
| 11.. ..1. | DSTAPE | "C'B" TAPE - DEVICE DEPEND SUFFIX |
| 11.. ..1. | MSTAPE | "C'B" MAP SET SUFFIX |
| 11.. ..11 | DSDISK | "C'C" DISK - DEVICE DEPEND SUFFIX |
| 11.. ..11 | MSDISK | "C'C" MAP SET SUFFIX |
| 11.. ..1.. | DSTWX | "C'D" TWX - DEVICE DEPEND SUFFIX |
| 11.. ..1.. | MSTWX | "C'D" MAP SET SUFFIX |
| 11.. ..1.1 | DS1050 | "C'E" 1050 - DEVICE DEPEND SUFFIX |
| 11.. ..1.1 | MS1050 | "C'E" MAP SET SUFFIX |
| 111. ..1. | DSF22601 | "C'S" RESERVED |
| 111. ..1. | MSF22601 | "C'S" RESERVED |
| 111. ..11 | DSF22602 | "C'T" RESERVED |
| 111. ..11 | MSF22602 | "C'T" RESERVED |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|-----|------------|---|
| 11.. | .11. | | DS2740 | "CF" 2740 WO/BUFFRECV-DEVICE DEPEND SUFFIX |
| 11.. | .11. | | MS2740 | "CF" 2740 WO/BUFFRECV-MAP SET SUFFIX |
| 11.. | 1... | | DS2740BR | "CH" 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX |
| 11.. | .11. | | MS2740BR | "CF" MAP SET SUFFIX |
| 11.. | .111 | | DS2741 | "CG" 2741 - DEVICE DEPEND SUFFIX |
| 11.. | .111 | | MS2741 | "CG" MAP SET SUFFIX |
| 11.. | 1..1 | | DS2770 | "CI" 2770 - DEVICE DEPEND SUFFIX |
| 11.. | 1..1 | | MS2770 | "CI" MAP SET SUFFIX |
| 11.1 | ...1 | | DS2780 | "CJ" 2780 - DEVICE DEPEND SUFFIX |
| 11.1 | ...1 | | MS2780 | "CJ" MAP SET SUFFIX |
| 11.1 | 1... | | DS2980M4 | "CQ" 2980 MOD 4 - DEVICE DEPEND SUFFIX |
| 11.1 | 1..1 | | MS2980M4 | "CR" MAP SET SUFFIX |
| 11.1 | 1... | | DS2980 | "CQ" 2980 - DEVICE DEPEND SUFFIX |
| 11.1 | 1... | | MS2980 | "CQ" MAP SET SUFFIX |
| 11.1 | .1.1 | | DS327PM1 | "CN" 3270-1 PRINTER - DEVICE DEPEND SUFFIX |
| 11.1 | .1.1 | | MS327PM1 | "CN" DEVICE DEPEND SUFFIX |
| 11.1 | .11. | | DS327PM2 | "CO" 3270-2 PRINTER - DEVICE DEPEND SUFFIX |
| 11.1 | .11. | | MS327PM2 | "CO" MAP SET SUFFIX |
| 11.1 | ..11 | | DS3270M1 | "CL" 3270 MOD 1 - DEV DEP SUFFIX |
| 11.1 | ..11 | | MS3270M1 | "CL" MAP SET SUFFIX |
| 11.1 | .1.. | | DS3270M2 | "CM" 3270 MOD 2 - DEV DEP SUFFIX |
| 11.1 | .1.. | | MS3270M2 | "CM" MAP SET SUFFIX |
| 111. | .1.. | | DS3601 | "CU" 3601 - DEVICE DEPEND SUFFIX |
| 111. | .1.. | | MS3601 | "CU" MAP SET SUFFIX |
| 111. | 1..1 | | DS327PHC | "CZ" 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX |
| 111. | 1..1 | | MS327PHC | "CZ" MAP SET SUFFIX |
| 111. | .111 | | DS3270HC | "CX" 3650/3270HC - DEVICE DEPEND SUFFIX |
| 111. | .111 | | MS3270HC | "CX" MAP SET SUFFIX |
| 111. | .11. | | DS3650UP | "CW" 3650UP - DEVICE DEPEND SUFFIX |
| 111. | .11. | | MS3650UP | "CW" MAP SET SUFFIX |
| 111. | .1.1 | | DS3653 | "CV" 3653 - DEVICE DEPEND SUFFIX |
| 111. | .1.1 | | MS3653 | "CV" MAP SET SUFFIX |
| 11.1 | ..1. | | DS3780 | "CK" 3780 - DEVICE DEPEND SUFFIX |
| 11.1 | ..1. | | MS3780 | "CK" MAP SET SUFFIX |
| 11.1 | .111 | | DSINTLU | "CP" INT LU DEVICE DEPEND SUFFIX |
| 11.1 | .111 | | MSINTLU | "CP" MAP SET SUFFIX |
| 111. | 1... | | DSBCHLU | "CY" BCH LU DEVICE DEPEND SUFFIX |
| 111. | 1... | | MSBCHLU | "CY" MAP SET SUFFIX |

UEFD User exit file and dataset information

CONTROL BLOCK NAME = DFHUEFDS
 DESCRIPTIVE NAME = CICS User Exit File and Dataset Information
 FUNCTION =
 This DSECT maps the information provided by File Control to the FCFS User Exits :
 XFCSREQ - Global User Exit called before the File Control request.
 XFCSREQC- Global User Exit called after the File Control request has been processed.

LIFETIME =
 DFHFCFS supplies the information for this DSECT before the global User Exits around File Open, Close, Enable and Disable are called.
 The information provided is valid for a single invocation of the exit only.

LOCATION =
 The content of parameter UEFPINFO passed from DFHFCFS on the Exit calls, is the address of this control block.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 User Exit File Information Control Block

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (0) | | | DFHUEFDS | |
| (0) | CHARACTER | 8 | UEFLNAME | File Name |
| (8) | CHARACTER | 44 | UEDSNAME | Data Set Name |
| This byte contains the servreq settings for the File | | | | |
| (34) | BITSTRING | 1 | UEFSERV | Servreqs Indicator |
| | ..11 .1.. | | UEFDSRI | "UEFSERV" Read Indicator |
| | 1... | | UEFRDIM | "X'80" Read Valid |
| | ..11 .1.. | | UEFDSUPD | "UEFSERV" Read Update Indicator |
| | ..1. | | UEFUPDIM | "X'20" Update Valid |
| | ..11 .1.. | | UEFDSADD | "UEFSERV" Write New Record Indicator |
| | ...1 | | UEFADDIM | "X'10" Add Valid |
| | ..11 .1.. | | UEFSDSI | "UEFSERV" Deletion Validity Indicator |
| | ... 1... | | UEFDELIM | "X'08" Delete Valid |
| | ..11 .1.. | | UEFBRWSE | "UEFSERV" Browse Validity Indicator |
| |1. | | UEFBRZIM | "X'02" Browse Valid |
| Flags indicating Automatic Journaling and Logging Options | | | | |
| (35) | BITSTRING | 1 | UEFDSJL | Journaling and Logging Indicator |
| | ..11 .1.1 | | UEFDSJRO | "UEFDSJL" Journal Read Only Indicator |
| | 1... | | UEFJRO | "X'80" Journal Read Only |
| | ..11 .1.1 | | UEFDSJRU | "UEFDSJL" Journal Read for Update Ind |
| | ..1. | | UEFJRU | "X'40" Journal Reads for Update |
| | ..11 .1.1 | | UEFDSJWU | "UEFDSJL" Journal Write Updates Ind |
| | ..1. | | UEFJWU | "X'20" Journal Write Updates |
| | ..11 .1.1 | | UEFDSJWA | "UEFDSJL" Journal Write Adds Indicator |
| | ...1 | | UEFJWA | "X'10" Journal Write Adds |
| | ..11 .1.1 | | UEFDSJDS | "UEFDSJL" Dsname has been Journalled Ind |
| | 1... | | UEFJDSN | "X'08" Dsname has been Journalled |
| | ..11 .1.1 | | UEFDSJSY | "UEFDSJL" Synchronous Reads Journal Ind |
| |1. | | UEFJSYN | "X'04" Synchronous Reads Journal |
| | ..11 .1.1 | | UEFDSJAS | "UEFDSJL" Asynchronous Writes Jnl Ind |
| |1. | | UEFJASY | "X'02" Asynchronous Writes Journal |
| A further automatic Journaling Option (VSAM only) | | | | |
| (36) | BITSTRING | 1 | UEFDSVJL | VSAM Journaling Indicator |
| | ..1. | | UEFJWAC | "X'40" Write Add Complete |
| Journal to be used for Automatic Journaling | | | | |
| (37) | BITSTRING | 1 | UEFDSJID | User Journal Id |
| Access Method Indicator | | | | |
| (38) | BITSTRING | 1 | UEFDSACC | Access Method |
| | 1... | | UEFVSAM | "X'80" Vsam |
| | ..1. | | UEFBDAM | "X'40" Bdam |
| Recovery Attributes of Base Cluster | | | | |
| (39) | BITSTRING | 1 | UEFBCRV | Recovery Attrs of Base Cluster |
| | ..1. | | UEFBCFR | "X'20" Forward Recovery |
| | ...1 | | UEFBCLOG | "X'10" Logging |
| | 1... | | UEFBCVAL | "X'08" Valid Flag for Recovery Attrs |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------------------|
| The following two fields identify the Forward Recovery Log The Forward Recovery Log may be specified on the CICS File definition (FCTE) or on the IDCAMS dataset definition for the associated sphere(VSAM Catalog). Where both are specified, the VSAM Catalog takes precedence and only the 26 character Logstream name from the catalog is passed to the User Exit. Where the Forward Recovery Log is only specified on the CICS File definition the 2 character log id is passed to the exit. Number of the Journal to be used for Forward Recovery (if any) This is the Forward Recovery Log Id from the FCTE if the FCTE is being used to set the FR Log. Zero will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog has been used to specify the log name | | | | |
| (3A) | BITSTRING | 1 | UEFFRLOG | Forward Recovery Log Id |
| (3B) | BITSTRING | 1 | | Reserved |
| Name of the Log to be used for Forward Recovery (if any) This is the Forward Recovery Log name from the VSAM Catalog Blanks will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog hasn't been used to specify the log name | | | | |
| (3C) | CHARACTER | 26 | UEFFRCLG | FR Log from VSAM Catalog |
| (56) | CHARACTER | 2 | | Reserved |
| Date and Time when last File against the VSAM Sphere Closed The date and time are in packed decimal format where s is the sign for the decimal number | | | | |
| (58) | FULLWORD | 4 | UEFCDATE | Date of Last Closure(yyyddd) |
| (5C) | FULLWORD | 4 | UEFCTIME | Time of Last Closure(hhmmss) |
| Availability Status | | | | |
| (60) | ADDRESS | 1 | UEFBCAS | Availability State |
| | ..1. | | UEFBCUNA | "X'20" Data set marked unavailable |
| (61) | CHARACTER | 3 | | Reserved |
| Address of read only copy of ACB This address is only set up when calling the XFCSREQC user exit after the completion of a successful OPEN request. This field contains zero in all other cases. | | | | |
| (64) | ADDRESS | 4 | UEFACBCP | Address of copy of ACB |

UEPAR Task related user exit plist

MODULE NAME = DFHUEXIT
DESCRIPTIVE NAME = CICS USER EXIT MACRO

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|-----|------------|---|
| (0) | | | DFHUEPAR | |
| (0) | ADDRESS | 4 | UEPEXN | ADDRESS OF EXIT NUMBER |
| (4) | ADDRESS | 4 | UEPGAA | ADDRESS OF GLOBAL AREA ((ZERO=NO WORK AREA) |
| (8) | ADDRESS | 4 | UEPGAL | ADDRESS OF GLOBAL AREA LENGTH |
| (C) | ADDRESS | 4 | UEPCRA | ADDRESS OF CURRENT RETURN-CODE |
| (10) | ADDRESS | 4 | UEPTCA | (reserved) |
| (14) | ADDRESS | 4 | UEPCSA | (reserved) |
| (18) | ADDRESS | 4 | UEPEPSA | ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM |
| (1C) | ADDRESS | 4 | UEPHMSA | ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS |
| END OF RETURN CODE EQUATES | | | | |
| | 1.. .. | | UERTPREP | "X'80" PREPARE |
| | .1.. | | UERTCOMM | "X'40" COMMIT UNCONDITIONALLY |
| | ..1. | | UERTBACK | "X'20" BACKOUT |
| | ...1 | | UERTDGCS | "X'10" LOST TO CICS INITIAL START |
| | 1.. | | UERTDGNK | "X'08" RM SHOULD NOT BE IN-DOUBT |
| |1.. | | UERTWAIT | "X'04" RM WILL HAVE TO WAIT FOR OUTCOME |
| |1. | | UERTRSYN | "X'02" RESYNC |
| |1 | | UERTLAST | "X'01" LAST COMMIT/ABORT IN THREAD |
| | 1.. .. | | UERTONLY | "X'80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT |
| | .1.. | | UERTELUW | "X'40" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL. |
| |1.. | | UERFPREP | "4" VOTE-YES |
| | 1.. | | UERFBACK | "8" VOTE-NO |
| | 11.. | | UERFNLOG | "12" VOTE-YES-BUT-DO-NOT-LOG |
| |1.. | | UERFDONE | "4" COMMIT/ABORT COMPLETE |
| | 1.. | | UERFHOLD | "8" REMEMBER COMMIT/ABORT |
| |1.. | | UERFOK | "4" SINGLE PHASE (UERTONLY); COMMITTED OK |
| | 1.. | | UERFBOUT | "8" SINGLE PHASE (UERTONLY); BACKED OUT |
| | 1.. .. | | UERTEOTR | "X'80" END OF THREAD |
| | .1. | | UERTSOTR | "X'40" START OF TASK |
| | 1.. ..1. | | UERTRTTR | "X'82" no longer used |
| | .1. ..1. | | UERTRTST | "X'42" no longer used |
| |1.. | | UERFEOTR | "4" CALL UNDERSTOOD |
| | 1.. .. | | UERTCONN | "X'80" EXTERNAL RESOURCE MANAGER IS |
| | .1. | | UERTNCON | "X'40" EXTERNAL RESOURCE MANAGER IS NOT |
| | 1.. .. | | UERTCORD | "X'80" CICS Orderly Termination |
| | .1. | | UERTCMM | "X'40" CICS Immediate Termination |
| | .1. | | UERTCABY | "X'20" CICS ABEND (Retry possible - TCBs Dispatchable) |
| | ...1 | | UERTCABN | "X'10" CICS ABEND (Retry NOT possible - TCBs Dispatchable) |
| |1 | | UERTOPCA | "X'01" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable) |
| (20) | ADDRESS | 4 | UEPURID | ADDRESS OF LUW-ID |
| (24) | ADDRESS | 4 | UEPTAA | ADDRESS OF TASK AREA |
| (28) | ADDRESS | 4 | UEPTAL | ADDRESS OF TASK AREA LENGTH |
| (2C) | ADDRESS | 4 | UEPEIB | ADDRESS OF CURRENT EIB |
| (30) | ADDRESS | 4 | UEPFLGS | ADDRESS OF FLAGWORD |
| (34) | ADDRESS | 4 | UEPRMSTK | ADDRESS OF KERNEL STACK ENTRY |
| (38) | ADDRESS | 4 | UEPUOWDS | ADDRESS OF LU6.2 UNIT OF WORK ID |
| (3C) | ADDRESS | 4 | UEPSECFLG | ADDRESS OF USER SECURITY BLOCK FLAG |
| | 1.. .. | | UEPNOSEC | "X'80" SECURITY INACTIVE FOR THIS SYSTEM |
| | ..1. | | UEPSEC | "X'20" SECURITY ACTIVE FOR THIS SYSTEM |
| (40) | ADDRESS | 4 | UEPSECBLK | ADDRESS OF ADDRESS OF USER SECURITY BLOCK |
| (44) | ADDRESS | 4 | UEPRMQUA | ADDRESS OF RM QUALIFIER |
| (48) | FULLWORD | 4 | UEPCALAM | ADDRESS OF CALLER AMODE INDICATION BYTE |
| | 1.. .. | | UEPCAM31 | "X'80" INDICATES ORIGINAL CALLER WAS AMODE 31 |
| (4C) | ADDRESS | 4 | UEPSYNCA | ADDRESS OF PARMS PASSED TO SYNC PT. |
| | 1.. .. | | UEPSUPDR | "X'80" RM UNDERSTANDS SINGLE UPDATER PROTOCOL |
| | .1. | | UEPREADO | "X'40" RM IS READ ONLY FOR THIS LUW |
| (50) | ADDRESS | 4 | UEPTIND | ADDRESS OF CALLER'S TASK INDICATORS |
| | 1.. .. | | UEPTANY | "X'80" DATA LOCATION ANY |
| | .1. | | UEPTCICS | "X'40" TASKDATAKEY = CICS |

The following indicator is set after a failure to switch to the TCB expected by the TRUE. This is used only when the caller is Sync-Point or End_of_Task. All other callers are Abended.

| | | | | |
|------|-----------|--|----------|------------------------------------|
| | ..1. | | UEPTUTCB | "X'20" UNEXPECTED TCB |
| (50) | CHARACTER | | UEPTQR | "C'QR',2" QUASI-REENTRANT (QR) TCB |
| (50) | CHARACTER | | UEPTCO | "C'CO',2" CONCURRENT (CO) TCB |
| (50) | CHARACTER | | UEPTRO | "C'RO',2" RESOURCE_OWNING (RO) TCB |
| (50) | CHARACTER | | UEPTFO | "C'FO',2" FILE_OWNING (FO) TCB |
| (50) | CHARACTER | | UEPTSZ | "C'SZ',2" FEPI (SZ) TCB |
| (50) | CHARACTER | | UEPTRP | "C'RP',2" RP MODE TCB |
| (50) | CHARACTER | | UEPTL8 | "C'L8',2" AN OPEN TCB |
| (50) | CHARACTER | | UEPTSO | "C'SO',2" SOCKETS TCB |
| (50) | CHARACTER | | UEPTSL | "C'SL',2" SOCKETS LISTENER TCB |
| (50) | CHARACTER | | UEPTS8 | "C'S8',2" SSL TCB |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (50) | CHARACTER | | UEPTJ8 | "C'J8',2" A JAVA TCB |
| (50) | CHARACTER | | UEPTJS | "C'JS',2" JOBSTEP TCB |
| (54) | ADDRESS | 4 | UEPPBTOK | ADDRESS OF CALLER'S PB TOKEN |
| (58) | ADDRESS | 4 | UEPTRCE | Address of trace flag byte |
| | 1... .. | | UEPTRLV1 | "X'80" RMI Level 1 trace active |
| | .1.. .. | | UEPTRLV2 | "X'40" RMI Level 2 trace active |
| (5C) | FULLWORD | 4 | UEPRMEND (0) | END of TYPE=RM Plist |
| | .1.1 11.. | | UEPRMLEN | "UEPRMEND-UEPEXN"Length of TYPE=RM Plist |

THE FOLLOWING EQU DEFINITIONS RELATE TO THE OBJECT
 THAT IS ADDRESSED BY UEPLAGS, NOT TO UEPLAGS ITSELF.

| | | | | |
|--|--|--|----------|---------------------------|
| .... .. |  |  | UEF0OFFS | "0" FIRST BYTE ... |
| FIRST BYTE IS RESERVED FOR CICS/VS 1.5 COMPATIBILITY | | | | |
|1 | | | UEF1OFFS | "1" SECOND BYTE |
|1 | | | UEF2OFFS | "2" THIRD BYTE |
|1 | | | UEFDTASK | "UEF2OFFS" BYTE-DISPL = 2 |
|111 | | | UEFPTASK | "7" BIT-POSITN = 7 |
|1 | | | UEFMTASK | "X'01" BIT-MASK |
|1 | | | UEFDCTER | "UEF2OFFS" BYTE-DISPL = 2 |
|1.1 | | | UEFPCTER | "5" BIT-POSITION = 5 |
|1.. | | | UEFMCTER | "X'04" BIT-MASK |
|1 | | | UEFDFEDF | "UEF2OFFS" BYTE-DISPL = 2 |
|11 | | | UEFPFEDF | "3" BIT-POSITION = 3 |
|1 | | | UEFMFEDF | "X'10" BIT-MASK |
|11 | | | UEF3OFFS | "3" FOURTH BYTE |
|11 | | | UEFDSP1 | "UEF3OFFS" BYTE-DISPL = 3 |
|11 | | | UEFPSP1 | "6" BIT-POSITN = 6 |
|1 | | | UEFMSP1 | "X'02" BIT-MASK |
|11 | | | UEFDAPPL | "UEF3OFFS" BYTE-DISPL = 3 |
|1.1 | | | UEFPAPPL | "5" BIT-POSITN = 5 |
|1.. | | | UEFMAPPL | "X'04" BIT-MASK |
|11 | | | UEFDSP1 | "UEF3OFFS" BYTE-DISPL = 3 |
|11 | | | UEFPSP1 | "3" BIT-POSITN = 3 |
|1 | | | UEFMSP1 | "X'10" BIT-MASK |

DUMMY SECTION FOR ROUTING FLAGS

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | | | DFHUEFLG | |
| (0) | BITSTRING | 4 | | |

DUMMY SECTION FOR ROUTING ARGUMENT

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------------|-----|--------------|--|
| (0) | | | DFHUERTR | |
| (0) | BITSTRING | 1 | UERTFGP | FUNCTION GROUP |
| (1) | BITSTRING | 1 | UERTFID | ORIGIN-IDENTIFIER |
| |1 | | UERTAPPL | "31-(UEFDAPPL*8+UEFPAPPL)" FROM API |
| |1 | | UERTFAP1 | "UERTAPPL" FROM API |
| |1 | | UERTAPI | "UERTAPPL" FROM API |
| |1 | | UERTSPI | "31-(UEFDSP1*8+UEFPSP1)" FROM SPI |
| |1 | | UERTSYNC | "31-(UEFDSP1*8+UEFPSP1)" FROM SP-MGR |
| | 1... | | UERTTASK | "31-(UEFDTASK*8+UEFPTASK)" FROM TASK-MGR |
| | 1.1 | | UERTCTER | "31-(UEFDCTER*8+UEFPCTER)" FROM CICS-TERMINATION |
| | 11.. | | UERTFEDF | "31-(UEFDCTER*8+UEFPCTER)" FROM CEDF |
| |1. | | UERTRMSY | "32" FROM RMSY (NOT FOR RM) |
| (2) | BITSTRING | 1 | UERTOPT2 | EIDOPT2.COPY |
| (3) | BITSTRING | 1 | | RESERVED |
| (4) | ADDRESS | 4 | UERTREND (0) | END OF RECURSIVE SECTION |
| |1.. | | UERTRLEN | "UERTREND-UERTFGP" Length of recursive section |

EXITID EQU-LIST - Global User Exit Number

| | | | | |
|-----------|--|--|---------|------|
|1 | | | XTCIN | "1" |
|1 | | | XTCOUT | "2" |
|11 | | | XCATT | "3" |
|1.. | | | XTCTIN | "4" |
|1.1 | | | XTCTOUT | "5" |
|11 | | | XDSBWT | "6" |
|111 | | | XDSAWT | "7" |
| 1... | | | XLGSTRM | "8" |
| 1.1 | | | XDUREQ | "9" |
| 1.1 | | | XDUCLSE | "10" |
| 1.11 | | | XDUOUT | "11" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-------|-----|------------|-------------|
| .... | 11.. | | XMEOUT | "12" |
| .... | 11.1 | | XFCREQ | "13" |
| .... | 111. | | XFCREQC | "14" |
| .... | 1111 | | XTSPTOUT | "15" |
| ...1 | .... |  | XGMTEXT | "16" |
| ...1 | ...1 | | XMNOUT | "17" |
| ...1 | ..1. | | XRCINIT | "18" |
| ...1 | ..11 | | XRCINPT | "19" |
| ...1 | ..1. | | XICREQ | "20" |
| ...1 | ..1.1 | | XICEXP | "21" |
| ...1 | ..11. | | XISLCLQ | "22" |
| ...1 | ..111 | | XPCFTCH | "23" |
| ...1 | 1.... | | XPCHAIR | "24" |
| ...1 | 1..1 | | XPCTA | "25" |
| ...1 | 1.1. | | XPCABND | "26" |
| ...1 | 1.11 | | XPCREQ | "27" |
| ...1 | 11.. | | XPCREQC | "28" |
| ...1 | 11.1 | | XTDREQ | "29" |
| ...1 | 111. | | XTDIN | "30" |
| ...1 | 1111 | | XTDOUT | "31" |
| ..1. | .... |  | XTSQRIN | "32" |
| ..1. | ...1 | | XTSQROUT | "33" |
| ..1. | ..1. | | XTSPTIN | "34" |
| ..1. | ..11 | | XZCIN | "35" |
| ..1. | ..1. | | XZCOUT | "36" |
| ..1. | ..1.1 | | XZCATT | "37" |
| ..1. | ..11. | | XZCOUT1 | "38" |
| ..1. | ..111 | | XXRSTAT | "39" |
| ..1. | 1.... | | XXDFA | "40" |
| ..1. | 1..1 | | XXDFB | "41" |
| ..1. | 1.1. | | XXDTO | "42" |
| ..1. | 1.11 | | XSTOUT | "43" |
| ..1. | 11.. | | XDLPRE | "44" |
| ..1. | 11.1 | | XDLPOST | "45" |
| ..1. | 111. | | XFCSREQ | "46" |
| ..1. | 1111 | | XEIIN | "47" |
| ..11 | .... |  | XEIOUT | "48" |
| ..11 | ...1 | | XALTENF | "49" |
| ..11 | ..1. | | XICTENF | "50" |
| ..11 | ..11 | | XDTAD | "51" |
| ..11 | ..1. | | XDTRD | "52" |
| ..11 | ..1.1 | | XDTLC | "53" |
| ..11 | ..11. | | XSTERM | "54" |
| ..11 | ..111 | | XSRAB | "55" |
| ..11 | 1.... | | XFCSREQC | "56" |
| ..11 | 1..1 | | XSZBRQ | "57" |
| ..11 | 1.1. | | XSZARQ | "58" |
| ..11 | 1.11 | | XISCONA | "59" |
| ..11 | 11.. | | XRSINDI | "60" |
| ..11 | 11.1 | | XXMATT | "61" |
| ..11 | 111. | | XZIQUE | "62" |
| ..11 | 1111 | | XTSREQ | "63" |
| ..1. | .... |  | XTSREQC | "64" |
| ..1. | ...1 | | XTDEREQ | "65" |
| ..1. | ..1. | | XTDEREQC | "66" |
| ..1. | ..11 | | XICEREQ | "67" |
| ..1. | ..1. | | XICEREQC | "68" |
| ..1. | ..1.1 | | XALCAID | "69" |
| ..1. | ..11. | | XSNON | "70" |
| ..1. | ..111 | | XSNOFF | "71" |
| ..1. | 1.... | | XRMIIN | "72" |
| ..1. | 1..1 | | XRMIOU | "73" |
| ..1. | 1.1. | | XAKUSER | "74" |
| ..1. | 1.11 | | XFCNREC | "75" |
| ..1. | 11.. | | XFCBFAIL | "76" |
| ..1. | 11.1 | | XFCLDEL | "77" |
| ..1. | 111. | | XFCBOVER | "78" |
| ..1. | 1111 | | XFCBOUT | "79" |
| ..1.1 | .... |  | XFCVSDS | "80" |
| ..1.1 | ...1 | | XFCQUIS | "81" |
| ..1.1 | ..1. | | XDUREQC | "82" |
| ..1.1 | ..11 | | XFCAREQ | "83" |
| ..1.1 | ..1. | | XFCAREQC | "84" |
| ..1.1 | ..1.1 | | XEISPIN | "85" |
| ..1.1 | ..11. | | XEISPOUT | "86" |
| ..1.1 | ..111 | | XNQEREQ | "87" |
| ..1.1 | 1.... | | XNQEREQC | "88" |
| ..1.1 | 1..1 | | XFAINTU | "89" |
| ..1.1 | 1.1. | | XBMIN | "90" |
| ..1.1 | 1.11 | | XBMOUT | "91" |
| ..1.1 | 11.. | | XBADEACT | "92" |
| ..1.1 | 11.1 | | XLDLOAD | "93" |
| ..1.1 | 111. | | XLDELETE | "94" |
| ..1.1 | 1111 | | XINDT1 | "95" |
| ..11. | .... |  | XINDT2 | "96" |
| ..11. | ...1 | | XLGWBC | "97" |

UEPAR Global user exit plist

MODULE NAME = DFHUEXIT
 DESCRIPTIVE NAME = CICS USER EXIT MACRO

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (0) | | | DFHUEPAR | |
| (0) | ADDRESS | 4 | UEPEXN | ADDRESS OF EXIT NUMBER |
| (4) | ADDRESS | 4 | UEPGAA | ADDRESS OF GLOBAL AREA ((ZERO=NO WORK AREA) |
| (8) | ADDRESS | 4 | UEPGAL | ADDRESS OF GLOBAL AREA LENGTH |
| (C) | ADDRESS | 4 | UEPCRA | ADDRESS OF CURRENT RETURN-CODE |
| (10) | ADDRESS | 4 | UEPTCA | (reserved) |
| (14) | ADDRESS | 4 | UEPCSA | (reserved) |
| (18) | ADDRESS | 4 | UEPEPSA | ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM |
| (1C) | ADDRESS | 4 | UEPHMSA | ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS |
| (20) | ADDRESS | 4 | UEPGIND | ADDRESS OF CALLER'S TASK INDICATORS |
| | | | 1... | UEPGANY |
| | | | .1. | UEPGCICS |
| (20) | CHARACTER | | UEPTQR | "C'QR',2" QUASI-REENTRANT (QR) TCB |
| (20) | CHARACTER | | UEPTCO | "C'CO',2" CONCURRENT (CO) TCB |
| (20) | CHARACTER | | UEPTRO | "C'RO',2" RESOURCE_OWNING (RO) TCB |
| (20) | CHARACTER | | UEPTFO | "C'FO',2" FILE_OWNING (FO) TCB |
| (20) | CHARACTER | | UEPTSZ | "C'SZ',2" FEPI (SZ) TCB |
| (20) | CHARACTER | | UEPTRP | "C'RP',2" RP MODE TCB |
| (20) | CHARACTER | | UEPTL8 | "C'L8',2" AN OPEN TCB |
| (20) | CHARACTER | | UEPTSO | "C'SO',2" SOCKETS TCB |
| (20) | CHARACTER | | UEPTSL | "C'SL',2" SOCKETS LISTENER TCB |
| (20) | CHARACTER | | UEPTS8 | "C'S8',2" SSL TCB |
| (20) | CHARACTER | | UEPTJ8 | "C'J8',2" A JAVA TCB |
| (20) | CHARACTER | | UEPTJS | "C'JS',2" JOBSTEP TCB |
| (24) | ADDRESS | 4 | UEPSTACK | ADDRESS OF KERNEL STACK ENTRY |
| (28) | ADDRESS | 4 | UEPXSTOR | ADDRESS OF STORAGE FOR XPI PARAMETERS |
| (2C) | ADDRESS | 4 | UEPTRACE | ADDRESS OF TRACE FLAG |
| | | | 1... | UEPTRON |
|  |  |  | .... .... | UEPURNORM |
| (30) | HALFWORD | 2 | UEPPARMS (0) | "X'00" CONTINUE NORMAL PROCESSING START OF PARAMETERS UNIQUE TO EACH EXIT ID |

XFCNREC PARAMETERS

Exit specific parameters are:

UEFILE - Address of 8 byte field containing the file name

UEDSETN - Address pointing to a 44 character DSDNAME

UEPFRCV - Address of file status flag byte

Valid values for UEPFRCV are:

UEPFLOG EQU X'01' file log attribute

Valid return codes for XFCNREC are:

UEPURNORM EQU X'00' normal(default) - reject mismatch

- open will fail as normal

UEPURNORM EQU X'04' bypass request - accept mismatch

- open will continue.

Message DFHFC0998 will be issued.

| | | | | |
|------|---------|---|---------|----------------------------------|
| (30) | ADDRESS | 4 | UEFILE | address of 8 character filename |
| (34) | ADDRESS | 4 | UEDSETN | address of 44 character DSDNAME |
| (38) | ADDRESS | 4 | UEPFRCV | address of file status flag byte |

valid values for UEPFRCV are:

.... ...1 UEPFLOG "X'01" file log attribute

XFCAREQ PARAMETERS

VALID RETURN CODES FOR XFCAREQ ARE:

UEPURNORM EQU X'00' NORMAL(DEFAULT)

UEPURNORM EQU X'04' BYPASS REQUEST

UEPURNORM EQU X'20' PURGED

| | | | | |
|------|---------|---|----------|-----------------------------------|
| (30) | ADDRESS | 4 | UEPCLPS | ADDRESS OF COMMAND LEVEL PLIST |
| (34) | ADDRESS | 4 | UEPFATOK | ADDR OF TOKEN TO PASS TO REQ EXIT |
| (38) | ADDRESS | 4 | UEPRCODE | ADDRESS OF COPY OF EIBRCODE |
| (3C) | ADDRESS | 4 | UEPRESP | ADDRESS OF COPY OF EIBRESP |
| (40) | ADDRESS | 4 | UEPRESP2 | ADDRESS OF COPY OF EIBRESP2 |
| (44) | ADDRESS | 4 | UEPTSTOK | ADDRESS OF TASK TOKEN |
| (48) | ADDRESS | 4 | UEPRECUR | ADDRESS OF HALFWORD DEPTH COUNTER |

XFCAREQC PARAMETERS

VALID RETURN CODES FOR XFCAREQC ARE:

UEPURNORM EQU X'00' NORMAL(DEFAULT)

UEPURNORM EQU X'20' PURGED

| | | | | |
|------|---------|---|----------|------------------|
| (30) | ADDRESS | 4 | UEPCLPS | AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPFATOK | AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UEPRCODE | AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | UEPRESP | AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | UEPRESP2 | AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | UEPTSTOK | AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | UEPRECUR | AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|-------------------------------------|
| XFCREQ PARAMETERS | | | | |
| VALID RETURN CODES FOR XFCREQ ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| UERCBYP EQU X'04' BYPASS REQUEST | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPFCTOK | ADDRESS OF TOKEN TO PASS TO XFCREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | UEPRSRCE | ADDRESS OF COPY OF EIBRSRCE |
| (50) | ADDRESS | 4 | UEPFSHIP | ADDRESS OF FUNCTION SHIP AREA |
| XFCREQC PARAMETERS | | | | |
| VALID RETURN CODES FOR XFCREQC ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPFCTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XFCSREQ PARAMETERS | | | | |
| Exit specific parameters are: | | | | |
| UEPFSREQ - Address of 2 byte field containing the request type. | | | | |
| UEPFILE - Address of 8 byte field containing the file name | | | | |
| UEPFINFO - Address pointing to a block containing the file info. | | | | |
| UEPRECUR - Address of halfword recursion level | | | | |
| VALID VALUES FOR UEPFSREQ ARE: | | | | |
| First byte | | | | |
| UEPFSOPN EQU X'01' Open File Request | | | | |
| UEPFSCLS EQU X'02' Close File Request | | | | |
| UEPFSENB EQU X'03' Enable File Request | | | | |
| UEPFSDIS EQU X'04' Disable File Request | | | | |
| UEPFSCAN EQU X'05' Cancel Close File Request | | | | |
| Second byte - meaning depends on type of request | | | | |
| Values for open | | | | |
| UEPFSNOP EQU X'00' Normal Open | | | | |
| UEPFSOFB EQU X'02' Open for backout | | | | |
| Values for close | | | | |
| UEPFSNC EQU X'00' Normal Close | | | | |
| UEPFSCP EQU X'01' Close Pending | | | | |
| UEPFSSELM EQU X'02' End of Load Mode Close | | | | |
| UEPFSIMM EQU X'06' Immediate Close | | | | |
| UEPFSICP EQU X'07' Immediate Close Pending | | | | |
| UEPFSQU EQU X'08' RLS Quiesce Close | | | | |
| VALID RETURN CODES FOR XFCSREQ ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| UERCBYP EQU X'04' BYPASS THE FILE CONTROL REQUEST | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPFSREQ | ADDRESS OF FILE STATE REQUEST BYTE |
| VALID VALUES FOR UEPFSREQ ARE: | | | | |
| First byte | | | | |
| .... | ...1 | | UEPFSOPN | "X'01'" Open File Request |
| .... | ..1. | | UEPFSCLS | "X'02'" Close File Request |
| .... | ..11 | | UEPFSENB | "X'03'" Enable File Request |
| .... | .1.. | | UEPFSDIS | "X'04'" Disable File Request |
| .... | .1.1 | | UEPFSCAN | "X'05'" Cancel Close File Request |
| Second byte - meaning depends on type of request | | | | |
| Values for open | | | | |
| .... | .... |  | UEPFSNOP | "X'00'" Normal Open |
| .... | ..1. | | UEPFSOFB | "X'02'" Open for backout |
| Values for close | | | | |
| .... | .... |  | UEPFSNC | "X'00'" Normal Close |
| .... | ...1 | | UEPFSCP | "X'01'" Close Pending |
| .... | ..1. | | UEPFSSELM | "X'02'" End of Load Mode Close |
| .... | .11. | | UEPFSIMM | "X'06'" Immediate Close |
| .... | .111 | | UEPFSICP | "X'07'" Immediate Close Pending |
| .... | 1... | | UEPFSQU | "X'08'" RLS Quiesce Close |
| (34) | ADDRESS | 4 | UEPFILE | ADDRESS OF FILE NAME |
| (38) | ADDRESS | 4 | UEPFINFO | ADDRESS OF FILE INFORMATION |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|------|------------|---|
| XFCRSREQ PARAMETERS | | | | |
| Exit specific parameters are: | | | | |
| UEPFSREQ - Address of 2 byte field containing the request type. | | | | |
| UEPFILE - Address of 8 byte field containing the file name | | | | |
| UEPFINFO - Address pointing to a block containing the file info. | | | | |
| UEPFSRSP - Address of 1 byte field containing the response. | | | | |
| UEPRECUR - Address of halfword recursion level | | | | |
| VALID RETURN CODES FOR XFCRSREQ ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| VALID VALUES FOR UEPFSREQ ARE: | | | | |
| First byte | | | | |
| UEPFSOPN EQU X'01' Open Request | | | | |
| UEPFSCLS EQU X'02' Close Request | | | | |
| UEPFSENB EQU X'03' Enable Request | | | | |
| UEPFSDIS EQU X'04' Disable Request | | | | |
| UEPFSKAN EQU X'05' Cancel Close File Request | | | | |
| Second byte - meaning depends on type of request | | | | |
| Values for open | | | | |
| UEPFSNOP EQU X'00' Normal Open | | | | |
| UEPFSOFB EQU X'02' Open for backout | | | | |
| Values for close | | | | |
| UEPFSNC EQU X'00' Normal Close | | | | |
| UEPFSOPN EQU X'01' Close Pending | | | | |
| UEPFSCLM EQU X'02' End of Load Mode Close | | | | |
| UEPFSIMM EQU X'06' Immediate Close | | | | |
| UEPFSICP EQU X'07' Immediate Close Pending | | | | |
| UEPFSQU EQU X'08' RLS Quiesce Close | | | | |
| VALID VALUES FOR UEPFSRSP ARE: | | | | |
| UEFSNORM EQU X'00' NORMAL | | | | |
| UEFSWARN EQU X'04' WARNING | | | | |
| UEFSFAIL EQU X'08' FAILED | | | | |
| UEFSPEND EQU X'10' PENDING | | | | |
| (30) | ADDRESS | 4 | | UEPFSREQ - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPFILE - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPFINFO - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | UEPFSRSP | ADDRESS OF RESPONSE TO REQUEST |
| VALID VALUES FOR UEPFSRSP ARE: | | | | |
|  | .... | .... | UEFSNORM | "X'00'" NORMAL |
|  | .... | .1.. | UEFSWARN | "X'04'" WARNING |
|  | .... | 1... | UEFSFAIL | "X'08'" FAILED |
| | ...1 | .... | UEFSPEND | "X'10'" PENDING |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XRCINIT PARAMETERS | | | | |
| VALID RETURN CODES FOR XRCINIT ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| FIRST PARAMETER DEPENDS ON VALUE IN TYPE OF REQUEST | | | | |
| (30) | ADDRESS | 4 | UEPRSTR | ADDRESS OF RESTART TYPE BYTE |
| (34) | ADDRESS | 4 | UEPTREQ | ADDRESS OF TYPE OF REQUEST |
| EQUATES FOR TYPE OF REQUEST, ADDRESSED BY UEPTREQ | | | | |
|  | .... | .... | UEUSINIT | "X'00'" INITIALIZATION OF USER RECOVERY |
| | 1... | .... | UEUSTERM | "X'80'" TERMINATION OF USER RECOVERY |
| EQUATES FOR TYPE OF RESTART, ADDRESSED BY UEPRSTR | | | | |
|  | .... | .... | UEPRWARM | "X'00'" WARM START |
|  | .... | ...1 | UEPREMER | "X'01'" EMERGENCY RESTART |
| XRCINPT PARAMETERS | | | | |
| VALID RETURN CODES FOR XRCINPT ARE: | | | | |
| UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| UERCBYP EQU X'04' BYPASS(NO ACTION) | | | | |
| (30) | ADDRESS | 4 | UEPUOWST | ADDRESS OF UNIT OF WORK STATUS BYTE |
| (34) | ADDRESS | 4 | UEPLGREC | ADDRESS OF LOG RECORD |
| (38) | ADDRESS | 4 | UEPLGLEN | ADDRESS OF FULLWORD CONTAINING LENGTH OF LOG RECORD |
| (3C) | ADDRESS | 4 | UEPTAID | ADDRESS OF FOUR BYTE TASK ID |
| (40) | ADDRESS | 4 | UEPTRID | ADDRESS OF FOUR BYTE TRANSACTION ID |
| (44) | ADDRESS | 4 | UEPTEID | ADDRESS OF FOUR BYTE TERMINAL ID |
| EQUATES FOR UNIT OF WORK STATUS INDICATOR, ADDRESSED BY UEPUOWST | | | | |
| NOTE: UEPTAID, UEPTRID AND UEPTEID ARE NOT VALID IF THE STATUS INDICATOR VALUE IS UEPUOWAK. | | | | |
|  | .... | .... | UEPUOWAK | "X'00'" ACTIVITY KEYPOINT RECORD |
|  | .... | ...1 | UEPUOWCM | "X'01'" UNIT OF WORK COMMITTED |
|  | .... | ..1. | UEPUOWBO | "X'02'" UNIT OF WORK BACKED OUT |
|  | .... | ..11 | UEPUOWIF | "X'03'" UNIT OF WORK WAS STILL IN FLIGHT |
|  | .... | .1.. | UEPUOWID | "X'04'" UNIT OF WORK IS IN DOUBT |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| XICREQ PARAMETERS VALID RETURN CODES FOR XICREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPICQID | ADDRESS OF 8 BYTE FIELD CONTAINING REQUEST ID ON REQUEST |
| (34) | ADDRESS | 4 | UEPICTID | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |
| (38) | ADDRESS | 4 | UEPICI | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| (3C) | ADDRESS | 4 | UEPICRQ1 | ADDRESS OF COPY OF FIRST REQUEST TYPE BYTE |
| (40) | ADDRESS | 4 | UEPICRQ2 | ADDRESS OF COPY OF SECOND REQUEST TYPE BYTE |
| (44) | ADDRESS | 4 | UEPICRT | ADDRESS OF 4 BYTE FIELD CONTAINING EXPIRY TIME OR INTERVAL ON REQUEST |
| XICEXP PARAMETERS VALID RETURN CODES FOR XICEXP ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPIECE | ADDRESS OF ICE JUST EXPIRED |
| XICEREQ PARAMETERS VALID RETURN CODES FOR XICEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPICTOK | ADDRESS OF TOKEN TO PASS TO XICEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XICEREQC PARAMETERS VALID RETURN CODES FOR XICEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPICTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XICTENF PARAMETERS VALID RETURN CODES FOR XICTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPICEVT | ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN |
| (30) | CHARACTER | | UEPICES | "C'S " C'S ' = START COMMAND WITHOUT DATA |
| (30) | CHARACTER | | UEPICESD | "C'SD" C'SD' = START COMMAND WITH DATA |
| (34) | ADDRESS | 4 | UEPICTR | ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR. |
| | 11.1 1... | | UEPICTY | "C'Y" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK. |
| | 11.1 .1.1 | | UEPICTN | "C'N" OTHERWISE 'N'. |
| (38) | ADDRESS | 4 | UEPICFS | ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR. |
| | 11.1 1... | | UEPICFY | "C'Y" C'Y' IF START REQUEST WAS FUNCTION SHIPPED. |
| | 11.1 .1.1 | | UEPICFN | "C'N" OTHERWISE 'N'. |
| (3C) | ADDRESS | 4 | UEPICRTRN | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| (40) | ADDRESS | 4 | UEPICRTR | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |
| (44) | ADDRESS | 4 | UEPICCTR | ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS. |
| (48) | ADDRESS | 4 | UEPICNTI | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS |
| (4C) | ADDRESS | 4 | UEPICSYI | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS |
| (50) | ADDRESS | 4 | UEPICNTO | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN |
| (54) | ADDRESS | 4 | UEPICSYO | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI |
| (58) | ADDRESS | 4 | UEPICNNI | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS |
| (5C) | ADDRESS | 4 | UEPICNNO | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS |
| XALTENF PARAMETERS VALID RETURN CODES FOR XALTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED | | | | |
| (30) | ADDRESS | 4 | UEPALEVT | ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN |
| (30) | CHARACTER | | UEPALETD | "C'QD" C'QD= TRANSIENT DATA TRIGGER LEVEL |
| (30) | CHARACTER | | UEPALES | "C'S " C'S ' = START COMMAND WITHOUT DATA |
| (30) | CHARACTER | | UEPALES D | "C'SD" C'SD' = START COMMAND WITH DATA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------------------|-----|--------------------|--|
| (34) | ADDRESS | 4 | UEPALTR | ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR (START COMMANDS ONLY) |
| | 111. 1... 11.1 .1.1 | | UEPALTY UEPALTN | "C'Y" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK. |
| (38) | ADDRESS | 4 | UEPALFS | "C'N" OTHERWISE 'N'. 'N' FOR TD |
| | 111. 1... 11.1 .1.1 | | UEPALFY UEPALFN | ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR, (START COMMANDS ONLY) |
| (3C) | ADDRESS | 4 | UEPALTRN | "C'Y" C'Y' IF START REQUEST WAS FUNCTION SHIPPED. |
| (40) | ADDRESS | 4 | UEPALRTR | "C'N" OTHERWISE 'N'. 'N' FOR TD. |
| (44) | ADDRESS | 4 | UEPALCTR | ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST |
| | | | | ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST |
| | | | | ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS. |
| (48) | ADDRESS | 4 | UEPALNTI | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS |
| (4C) | ADDRESS | 4 | UEPALSXI | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS |
| (50) | ADDRESS | 4 | UEPALNTO | ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN |
| (54) | ADDRESS | 4 | UEPALSXI | ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI |
| (58) | ADDRESS | 4 | UEPALNNI | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS |
| (5C) | ADDRESS | 4 | UEPALNNO | ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS |
| XALCAID PARAMETERS VALID RETURN CODES FOR XALCAID ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| (30) | ADDRESS | 4 | UEPALTSD | A four-byte field containing the symbolic identifier of the transaction which was to be started by this request. |
| (34) | ADDRESS | 4 | UEPALTRM | A four-byte field containing the identifier of the terminal or connection to which this request was directed. |
| (38) | ADDRESS | 4 | UEPALDAT | Either the address of an area of storage containing the data specified in the FROM option of the START command which led to the creation of this request; or zero if the FROM option was not specified. |
| (3C) | ADDRESS | 4 | UEPALLEN | A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified. |
| (40) | ADDRESS | 4 | UEPALRQD | An eight-byte field containing the value of the REQID associated with the FROM data. The data was stored in a temporary storage queue with this name. This value was either specified explicitly using the REQID option on the START command, or created internally by CICS. |
| (44) | ADDRESS | 4 | UEPALQUE | An eight-byte field containing the value specified in the QUEUE option on the START command, or hex zeros if QUEUE was not specified. |
| (48) | ADDRESS | 4 | UEPALRTE | A four-byte field containing the value specified in the RTERMID option on the START command, or hex zeros if RTERMID was not specified. |
| (4C) | ADDRESS | 4 | UEPALRTA | A four-byte field containing the value specified in the RTRANSID option on the START command, or hex zeros if RTRANSID was not specified. |
| (50) | ADDRESS | 4 | UEPALFMH | A one-byte field containing the value 'X'FF' if the data contains FMHs, as specified by the FM option on the associated START command, and X'00' otherwise. |
| (54) | ADDRESS | 4 | UEPALSTC | A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'. |
| XAKUSER PARAMETERS VALID RETURN CODES FOR XAKUSER ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| (30) | ADDRESS | 4 | UEPAKTYP | ADDRESS OF KEYPOINT TYPE BYTE |
| EQUATES FOR TYPE OF KEYPOINT, ADDRESSED BY UEPAKTYP | | | | |
|  | .... .... |  | UEPAKPER | "X'00" NORMAL PERIODIC KEYPOINT |
| |1 | | UEPAKWSD | "X'01" WARM SHUTDOWN KEYPOINT |
| XTCATT PARAMETERS VALID RETURN CODES FOR XTCATT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | UEPTCTTE | ADDRESS OF TCTTE |
| (34) | ADDRESS | 4 | UEPTIOA | ADDRESS OF TIOA |
| (38) | ADDRESS | 4 | UEPTCTLE | ADDRESS OF TCT LINE ENTRY |
| (3C) | ADDRESS | 4 | | reserved |
| (40) | ADDRESS | 4 | UEPTRAN | ADDRESS OF TRANSID |
| XTCTIN PARAMETERS VALID RETURN CODES FOR XTCTIN ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERCBYE EQU X'04' BYPASS FORMATTING OF TCAM HEADER | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XTCTOUT PARAMETERS VALID RETURN CODES FOR XTCTOUT ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERCBYE EQU X'04' BYPASS FORMATTING OF TCAM HEADER | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|------------|-------------------------------------|
| XTCIN PARAMETERS VALID RETURN CODES FOR XTCIN ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XTCOUT PARAMETERS VALID RETURN CODES FOR XTCOUT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTCTLE - AS DEFINED ABOVE |
| XZCIN PARAMETERS VALID RETURN CODES FOR XZCIN ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCOUT PARAMETERS VALID RETURN CODES FOR XZCOUT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCOUT1 PARAMETERS VALID RETURN CODES FOR XZCOUT1 ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XZCATT PARAMETERS VALID RETURN CODES FOR XZCATT ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UEPTPN | ADDRESS OF TPN |
| (3C) | ADDRESS | 4 | UEPTPNL | ADDRESS OF TPN LENGTH |
| (40) | ADDRESS | 4 | | UEPTRAN - AS DEFINED ABOVE |
| XGMTEXT PARAMETERS VALID RETURN CODES FOR XGMTEXT ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTCTTE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTIOA - AS DEFINED ABOVE |
| XPCREQ PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPPCTOK | ADDRESS OF TOKEN TO PASS TO XPCREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XPCREQC PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPPCTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XPCABND PARAMETERS VALID RETURN CODES FOR XPCABND ARE: UERCNORM EQU X'00' NORMAL(TAKE DUMP) UERCBYP EQU X'04' BYPASS(SUPPRESS DUMP) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPPCDS | ADDR OF PROGRAM CONTROL EXITS DSECT |
| (34) | ADDRESS | 4 | UEPTACB | ADDRESS OF TACB |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|-----------------------------------|-------------------------------------|
| XPCFTCH PARAMETERS VALID RETURN CODES FOR XPCFTCH ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| XTSQRIN PARAMETERS VALID RETURN CODES FOR XTSQRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| MODIFICATIONS TO THE ARGUMENTS UEPTRANID THRU UEPPROG ARE NOT ALLOWED | | | | |
| (30) | ADDRESS | 4 | UEPTRANID | ADDRESS OF TRANSACTION ID |
| (34) | ADDRESS | 4 | UEPUSER | ADDRESS OF USERID |
| (38) | ADDRESS | 4 | UEPTERM | ADDRESS OF TERMINAL ID |
| (3C) | ADDRESS | 4 | UEPPROG | ADDRESS OF APPLICATION PROGRAM NAME |
| (40) | HALFWORD | 2 | UEPPARM (0) | END OF COMMON DOMAIN PARAMETERS |
| (40) | ADDRESS | 4 | UEP_TS_FUNCTION | address of a 1-byte function |
| |1 | | UEP_TS_FUN_WRITE | "X'01" write function |
| |1. | | UEP_TS_FUN_REWRITE | "X'02" rewrite function |
| |11 | | UEP_TS_FUN_READ_INT0 | "X'03" read_int0 function |
| |1.. | | UEP_TS_FUN_READ_SET | "X'04" read_set function |
| |1.1 | | UEP_TS_FUN_READ_NEXT_INT0 | "X'05" read_next_int0 function |
| |11. | | UEP_TS_FUN_READ_NEXT_SET | "X'06" read_next_int0 function |
| |111 | | UEP_TS_FUN_DELETE | "X'07" delete function |
| (44) | ADDRESS | 4 | UEP_TS_QUEUE_NAME | address of 8-character queue name |
| (48) | ADDRESS | 4 | UEP_TS_DATA_P | address of fullword data address |
| (4C) | ADDRESS | 4 | UEP_TS_DATA_L | address of fullword data length |
| (50) | ADDRESS | 4 | UEP_TS_ITEM_NUMBER | address of fullword item number |
| (54) | ADDRESS | 4 | UEP_TS_STORAGE_TYPE | address of 1-byte storage type |
| |1 | | UEP_TS_STORAGE_TYPE_MAIN | "X'01"main |
| |1. | | UEP_TS_STORAGE_TYPE_AUX_TST | "X'02"aux (recoverability from TST) |
| |11 | | UEP_TS_STORAGE_TYPE_AUX_RECOV_YES | "X'03"aux recoverable |
| |1.. | | UEP_TS_STORAGE_TYPE_AUX_RECOV_NO | "X'04"aux non-recoverable |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSQR0UT PARAMETERS VALID RETURN CODES FOR XTSQR0UT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | UEP_TS_TOTAL_ITEMS | address of fullword total items |
| (5C) | ADDRESS | 4 | UEP_TS_RESPONSE | address of 1-byte response |
| |1 | | UEP_TS_RESPONSE_OK | "X'01"ok response |
| |1. | | UEP_TS_RESPONSE_EXCEPTION | "X'02"exception response |
| |11 | | UEP_TS_RESPONSE_DISASTER | "X'03"disaster response |
| |1.. | | UEP_TS_RESPONSE_INVALID | "X'04"invalid response |
| |11. | | UEP_TS_RESPONSE_PURGED | "X'06"purged response |
| XTSPTIN PARAMETERS VALID RETURN CODES FOR XTSPTIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEP_TS_FUN_PUT | "X'01" write function |
| |1 | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------|-----|----------------------------|---|
|1. | | | UEP_TS_ FUN_PUT_REPLACE | "X'02" rewrite function |
|11 | | | UEP_TS_FUN_GET | "X'03" read_into function |
|1.. | | | UEP_TS_FUN_GET_SET | "X'04" read_set function |
|1.1 | | | UEP_TS_ FUN_GET_RELEASE | "X'05" read_next_into function |
|11. | | | UEP_TS_FUN_GET_RELEASE_SET | "X'06" read_next_into function |
|111 | | | UEP_TS_FUN_RELEASE | "X'07" delete function |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSPTOUT PARAMETERS VALID RETURN CODES FOR XTSPTOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | | |
| (44) | ADDRESS | 4 | | |
| (48) | ADDRESS | 4 | | |
| (4C) | ADDRESS | 4 | | |
| (50) | ADDRESS | 4 | | |
| (54) | ADDRESS | 4 | | |
| (58) | ADDRESS | 4 | | |
| (5C) | ADDRESS | 4 | | |
| XTSREQ PARAMETERS VALID RETURN CODES FOR XTSREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPTQOK | ADDRESS OF TOKEN TO PASS TO XTSREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XTSREQC PARAMETERS VALID RETURN CODES FOR XTSREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTQOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XTDREQ PARAMETERS VALID RETURN CODES FOR XTDREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCTDNA EQU X'08' Quit TD processing - return "notauth" to caller UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPTDQUE | Address of TD queue name |
| (34) | ADDRESS | 4 | UEPTDTYP | Address of TD request type |
| equates for TD request byte | | | | |
|1 | | | UEPTDPUT | "1" PUT request |
|1. | | | UEPTDGET | "2" GET request |
|11 | | | UEPTDPUR | "3" PURGE request |
| XTDIN PARAMETERS VALID RETURN CODES FOR XTDIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTDQUE - as defined above XTDOUT / XTDIN parameters |
| (34) | ADDRESS | 4 | UEPTDAUD | Address of unmodified data |
| (38) | ADDRESS | 4 | UEPTDLUD | Address of length of unmodified data |
| (3C) | ADDRESS | 4 | UEPTDAMD | Address of modified data |
| (40) | ADDRESS | 4 | UEPTDLMD | Address of length of modified data XTDOUT specific parameters |
| (44) | ADDRESS | 4 | UEPTDNUM | Address of #(records) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--------------------------------------|
| (48) | ADDRESS | 4 | UEPTDCUR | Address of #(current record) |
| XTDOUT PARAMETERS VALID RETURN CODES FOR XTDOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTDQUE - as defined above |
| (34) | ADDRESS | 4 | | UEPTDAUD - as defined above |
| (38) | ADDRESS | 4 | | UEPTDLUD - as defined above |
| (3C) | ADDRESS | 4 | | UEPTDAMD - as defined above |
| (40) | ADDRESS | 4 | | UEPTDLMD - as defined above |
| (44) | ADDRESS | 4 | | UEPTDNUM - as defined above |
| (48) | ADDRESS | 4 | | UEPTDCUR - as defined above |
| XTDEREQ PARAMETERS VALID RETURN CODES FOR XTDEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPTDTOK | ADDRESS OF TOKEN TO PASS TO XTDEREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XTDEREQC PARAMETERS VALID RETURN CODES FOR XTDEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTDTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPRSRCE - AS DEFINED ABOVE |
| XLDLOAD PARAMETERS VALID RETURN CODES FOR XLDLOAD ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| (40) | ADDRESS | 4 | UEPPROGN | ADDRESS OF NAME OF LOADED PROGRAM |
| (44) | ADDRESS | 4 | UEPPROGL | ADDRESS OF UEPPROGN LENGTH |
| (48) | ADDRESS | 4 | | RESERVED FOR UEPRECUR |
| (4C) | ADDRESS | 4 | UEPLDPT | ADDRESS OF PROGRAM LOAD POINT |
| (50) | ADDRESS | 4 | UEPENTRY | ADDRESS OF PROGRAM ENTRY POINT |
| (54) | ADDRESS | 4 | | RESERVED |
| (58) | ADDRESS | 4 | | RESERVED - XLD7 |
| (5C) | ADDRESS | 4 | | RESERVED - XLD8 |
| XLDELETE PARAMETERS VALID RETURN CODES FOR XLDELETE ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) | | | | |
| XNQREQ PARAMETERS VALID RETURN CODES FOR XNQREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCSCPE EQU X'08' SCOPE provided UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPNQTOK | ADDRESS OF TOKEN TO PASS TO XNQREQC |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | UEPSCOPE | ADDRESS OF SCOPE NAME |
| XNQREQC PARAMETERS VALID RETURN CODES FOR XNQREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPCLPS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPNQTOK - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPRCODE - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPRES P - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPRES P2 - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTSTOK - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--------------------------------------|
| XXRSTAT PARAMETERS VALID RETURN CODES FOR XXRSTAT ARE: UERCNORM EQU X'00' NORMAL(TAKE SYSTEM ACTION) UERCCOIG EQU X'04' IGNORE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPERRA | ADDRESS OF ERROR DATA |
| XXDFA PARAMETERS VALID RETURN CODES FOR XXDFA ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | UEPDBXR | ADDRESS OF DBCTL XRF INFO |
| XXDFB PARAMETERS VALID RETURN CODES FOR XXDFB ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | | UEPDBXR - AS DEFINED ABOVE |
| XXDTO PARAMETERS VALID RETURN CODES FOR XXDTO ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP | | | | |
| (30) | ADDRESS | 4 | | UEPDBXR - AS DEFINED ABOVE |
| XDTRD PARAMETERS VALID RETURN CODES FOR XDTRD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | UEPDTP | ADDRESS OF DATA TABLE parameter list |
| XDTAD PARAMETERS VALID RETURN CODES FOR XDTAD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | | UEPDTP - AS DEFINED ABOVE |
| XDTLC PARAMETERS VALID RETURN CODES FOR XDTLC ARE: UERCDTOK EQU X'00' OPEN OK UERCDTCL EQU X'04' CLOSE THE DATA TABLE/FILE UERCDTSH EQU X'08' Shared data table load (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only) | | | | |
| (30) | ADDRESS | 4 | | UEPDTP - AS DEFINED ABOVE |
| XZIQUE PARAMETERS VALID RETURN CODES FOR XZIQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCAKLM EQU X'0C' Kill queued tasks for modegrp & issue MSG UERCPURG EQU X'20' Task purged during XPI call | | | | |
| (30) | ADDRESS | 4 | UEPZDATA | ADDRESS OF XZIQUE PARAMETERS |
| XISCONA PARAMETERS VALID RETURN CODES FOR XISCONA ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr | | | | |
| (30) | ADDRESS | 4 | UEPISPCA | ADDRESS OF XISCONA PARAMETERS |
| XISLCLQ PARAMETERS VALID RETURN CODES FOR XISLCLQ ARE: UERCSYS EQU X'00' TAKE SYSTEM ACTION UERCQUE EQU X'04' QUEUE THE REQUEST UERCIGN EQU X'08' IGNORE, RETURN SYSTEM ACTION UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPISPP | ADDRESS OF XISLCLQ PARAMETERS |
| XMNOUT PARAMETERS VALID RETURN CODES FOR XMNOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS MONITOR RECORD OUTPUT UERCPURG EQU X'20' PURGED | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|--|
| (40) | ADDRESS | 4 | UEPDICT | ADDRESS OF DICTIONARY |
| (44) | ADDRESS | 4 | UEPDICTE | ADDRESS OF DICTIONARY ENTRIES |
| (48) | ADDRESS | 4 | UEPFCL | ADDRESS OF FIELD CONNECTOR LIST |
| (4C) | ADDRESS | 4 | UEPFCLNO | ADDRESS OF NUMBER OF FIELD CONNECTORS |
| (50) | ADDRESS | 4 | UEPMRTYP | ADDRESS OF MONITORING RECORD TYPE |
| (54) | ADDRESS | 4 | UEPMRLEN | ADDRESS OF MONITORING RECORD LENGTH |
| (58) | ADDRESS | 4 | UEPMREC | ADDRESS OF MONITORING RECORD |
| (5C) | ADDRESS | 4 | UEPSRCTK | ADDRESS OF WLM SERVICE REPORTING TOKEN |
| (60) | ADDRESS | 4 | UEMPREC | ADDRESS OF MN PERFORMANCE RECORD |
| XSTOUT PARAMETERS VALID RETURN CODES FOR XSTOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS STATISTICS RECORD OUTPUT | | | | |
| (40) | ADDRESS | 4 | UEPSTATS | ADDRESS OF STATISTICS RECORD |
| (44) | ADDRESS | 4 | UEPSRLEN | ADDRESS OF LENGTH OF STATS RECORD |
| (48) | ADDRESS | 4 | UEPSTYPE | ADDRESS OF STATISTICS TYPE |
| EQUATES FOR STATISTICS TYPE | | | | |
| (48) | CHARACTER | | UEPSINT | "C'INT" INTERVAL STATISTICS |
| (48) | CHARACTER | | UEPSREQ | "C'REQ" REQUESTED STATISTICS |
| (48) | CHARACTER | | UEPSEOD | "C'EOD" END OF DAY STATISTICS |
| (48) | CHARACTER | | UEPSUSS | "C'USS" UNSOLICITED STATISTICS |
| (48) | CHARACTER | | UEPSRRT | "C'RRT" REQUESTED RESET STATISTICS |
| (4C) | ADDRESS | 4 | UEPSDATE | ADDRESS OF COLLECTION DATE (MMDDYY) |
| (50) | ADDRESS | 4 | UEPSTIME | ADDRESS OF COLLECTION TIME (HHMMSS) |
| THE FOLLOWING TWO PARAMETERS ARE FOR INTERVAL STATISTICS ONLY | | | | |
| (54) | ADDRESS | 4 | UEPSIVAL | ADDRESS OF INTERVAL TIME (HHMMSS) |
| (58) | ADDRESS | 4 | UEPSIVN | ADDRESS OF INTERVAL NUMBER |
| (5C) | ADDRESS | 4 | UEPSCLD | ADDRESS OF COLLECTION DATE (MMDDYYYY) |
| XDUREQ PARAMETERS VALID RETURN CODES FOR XDUREQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP UERCPURG EQU X'20' PURGED check parm list hasn't already been generated by XDUREQ | | | | |
| (40) | ADDRESS | 4 | UEPDUMPC | ADDRESS OF COPY OF DUMP CODE |
| (44) | ADDRESS | 4 | UEPDUMPT | ADDRESS OF DUMP TYPE IDENTIFIER |
| EQUATES FOR DUMP TYPE IDENTIFIER | | | | |
| | 111. ..11 | | UEPDTRAN | "C'T" TRANSACTION DUMP REQUEST |
| | 111. ..1. | | UEPDSYST | "C'S" SYSTEM DUMP REQUEST |
| (48) | ADDRESS | 4 | UEPABCDE | ADDRESS OF COPY OF ABEND CODE |
| (4C) | ADDRESS | 4 | UEPXDSCP | Address of dumscope |
| |1 | | UEPXDLOC | "X'1" DUDT_LOCAL |
| |1. | | UEPXDREL | "X'2" DUDT_RELATED |
| (50) | ADDRESS | 4 | UEPXTXN | Address of DUDT_TRANSACTION_DUMP |
| |1 | | UEPXDYES | "X'1" DUDT_YES |
| |1. | | UEPXDNO | "X'2" DUDT_NO |
| (54) | ADDRESS | 4 | UEPXDYSYS | Address of DUDT_SYSTEM_DUMP |
| (58) | ADDRESS | 4 | UEPXDTRM | Address of DUDT_TERMINATE_CICS |
| (5C) | ADDRESS | 4 | UEPXDMAX | Address of DUDT_MAXIMUM_DUMPS |
| (60) | ADDRESS | 4 | UEPXCNT | Address of DUDT_COUNT |
| (64) | ADDRESS | 4 | UEPXTST | Address of DUDT_TRAN_DUMPS_TAKEN |
| UEPXTST addresses 4 consecutive fullwords which contain as binary integers the dump table statistics: TRAN_DUMPS_TAKEN, TRAN_DUMPS_SUPPRESSED, SYS_DUMPS_TAKEN SYS_DUMPS_SUPPRESSED. Comments in DFHDUDTR indicate that the corresponding DUDT fields must remain contiguous. | | | | |
| (68) | ADDRESS | 4 | UEPXDDAE | Address of DUDT_DAEOPTION |
| (6C) | ADDRESS | 4 | UEPDMPID | Address of the dump ID string |
| (70) | ADDRESS | 4 | UEPDURQE (0) | End of parms shared with XDUREQ |
| (70) | ADDRESS | 4 | UEPFMOD | Address of name of failing module |
| XDUCLSE PARAMETERS VALID RETURN CODES FOR XDUCLSE ARE: UERCNORM EQU X'00' NORMAL UERCSWCH EQU X'04' DON'T SWITCH AUTOSWITCH OFF. UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPDMPDD | ADDRESS OF DUMP DATASET DDNAME |
| (44) | ADDRESS | 4 | UEPDMPSN | ADDRESS OF DUMP DATASET DSNAME |
| XDUOUT PARAMETERS VALID RETURN CODES FOR XDUOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP BUFFER OUTPUT (APPLICABLE ONLY FOR UEDMPWR) UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPDMPFC | ADDRESS OF XDUOUT FUNCTION CODE |
| EQUATES FOR XDUOUT FUNCTION CODE | | | | |
|  | .... .... |  | UEPDMPWR | "X'00" BUFFER ABOUT TO BE WRITTEN |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-------------|-----|------------|---|
| |1.. | | UEPDMPRE | "X'04" DUMP ABOUT TO RESTART AFTER AUTO-SWITCH |
| | 1... | | UEPDMPAB | "X'08" ABNORMAL TERMINATION OF DUMP |
| | 11.. | | UEPDMPDY | "X'0C" BUFFER ABOUT TO BE WRITTEN TO DUMMY FILE |
| UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB | | | | |
| (44) | ADDRESS | 4 | UEPDMPBF | ADDRESS OF DUMP BUFFER |
| (48) | ADDRESS | 4 | UEPDMPLEN | ADDRESS OF DUMP BUFFER LENGTH |
| XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ | | | | |
| (70) | ADDRESS | 4 | UEPDRESP | Address of DUDU_RESPONSE |
| Equates for dump response code | | | | |
| |1 | | UEPDRPOK | "X'01" DUDU_OK |
| |1. | | UEPDRPEX | "X'02" DUDU_EXCEPTION |
| |11. | | UEPDRPPR | "X'06" DUDU_PURGED |
| (74) | ADDRESS | 4 | UEPDREAS | Address of DUDU_REASON |
| Equates for dump reason code | | | | |
| |1 | | UEPDRSOE | "X'01" DUDU_OPEN_ERROR |
| |1. | | UEPDRSNO | "X'02" DUDU_NOT_OPEN |
| |11 | | UEPDRSID | "X'03" DUDU_INVALID_DUMP CODE |
| |1.. | | UEPDRSPT | "X'04" DUDU_PARTIAL_TRANSACTION_DUMP |
| |1.1 | | UEPDRSS1 | "X'05" DUDU_SUPPRESSED_BY_DUMP OPTION |
| |11. | | UEPDRSS2 | "X'06" DUDU_SUPPRESSED_BY_DUMP TABLE |
| |111 | | UEPDRSS3 | "X'07" DUDU_SUPPRESSED_BY_USEREXIT |
| | 1... | | UEPDRSPS | "X'08" DUDU_PARTIAL_SYSTEM_DUMP |
| | 1.1. | | UEPDRSSB | "X'0A" DUDU_SDUMP_BUSY |
| | 1.11 | | UEPDRSSA | "X'0B" DUDU_SDUMP_NOT_AUTHORIZED |
| | 11.1 | | UEPDRSND | "X'0D" DUDU_NO_DATASET |
| XDSBWT PARAMETERS VALID RETURN CODES FOR XDSBWT ARE: UERCNORM EQU X'00' NORMAL UERCSSWAP EQU X'04' ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAPPING XDSBWT HAS NO UNIQUE PARAMETERS XDSAWT PARAMETERS VALID RETURN CODES FOR XDSAWT ARE: UERCNORM EQU X'00' NORMAL UERCNOSW EQU X'08' ISSUE SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAPPING | | | | |
| (30) | ADDRESS | 4 | | RESERVED |
| (34) | ADDRESS | 4 | | RESERVED |
| (38) | ADDRESS | 4 | | RESERVED |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | UEPSYSRC | ADDRESS OF SYSEVENT RETURN CODE |
| XRSINDI PARAMETERS VALID RETURN CODES FOR XRSINDI ARE: UERCNORM EQU X'00' NORMAL (default). UERCPURG EQU X'20' PURGED | | | | |
| (40) | ADDRESS | 4 | UEPIDREQ | Address of INSTALL/DISCARD ident(byte) Possible values of the identifier: |
| |1 | | UEIDINS | "1" for INSTALL requests |
| |1. | | UEIDDIS | "2" for DISCARD requests |
| (44) | ADDRESS | 4 | UEPIDNAM | Address of resource name |
| (48) | ADDRESS | 4 | UEPIDLEN | Address of resource name length (word) |
| (4C) | ADDRESS | 4 | UEPIDNUM | Address of resource name number (word) |
| (50) | ADDRESS | 4 | UEPIDTYP | Address of resource type (byte) Possible values of the type: |
| |1 | | UEIDTRAN | "1" Transaction |
| |1. | | UEIDPROF | "2" Profile |
| |11 | | UEIDPROG | "3" Program |
| |1.. | | UEIDMAP | "4" Mapset |
| |1.1 | | UEIDPSET | "5" Partitionset |
| |11. | | UEIDTERM | "6" Terminal |
| |111 | | UEIDCONN | "7" Connection |
| | 1... | | UEIDMODE | "8" Modename |
| | 1.1. | | UEIDSESS | "9" Session |
| | 1.1. | | UEIDFILE | "10" File |
| | 1.11 | | UEIDPART | "11" Partner |
| | 11.. | | UEIDTCLS | "12" TCLASS |
| | 11.1 | | UEIDAITM | "13" Autoinstall terminal model |
| | 111. | | UEIDFECO | "14" FEPI Connection |
| | 1111 | | UEIDFENO | "15" FEPI Node |
| | 1...1 | | UEIDFEPO | "16" FEPI Pool |
| | 1...1 | | UEIDFEPS | "17" FEPI Propertyset |
| | 1..1. | | UEIDFETA | "18" FEPI Target |
| | 1..11 | | UEIDTDQU | "19" TD queue |
| | 1...1 | | UEIDJNMD | "20" Journalmodel |
| | 1...1 | | UEIDJNNM | "21" Journalname |
| | 1...11 | | UEIDSTRM | "22" Log Stream name |
| | 1...11 | | UEIDDB2C | "23" DB2 Connection (DB2CONN) |
| | 1...1 | | UEIDDB2E | "24" DB2 Entry (DB2ENTRY) |
| | 1...1 | | UEIDDB2T | "25" DB2 Transaction (DB2TRAN) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|------------|--|
| | ...1 1.11 | | UEIDTSMO | "27" Tsmodel |
| | ...1 11.. | | UEIDPRTY | "28" Processtype |
| | ...1 1.1. | | UEIDNQRN | "26" NQR name |
| | ...1 11.1 | | UEIDRQMD | "29" Request model (IOP) |
| | ...1 111. | | UEIDTCPS | "30" Tcpiptype |
| | ...1 1111 | | UEIDDOCT | "31" Doctemplate |
| (54) | ADDRESS | 4 | UEPIDREC | Recoverability This indicates that: |
| |1 | | UEIDKEEP | "1" the resource will be recovered |
| |1. | | UEIDLOSE | "2" the resource will not be recovered |
| XXMATT PARAMETERS | | | | |
| VALID RETURN CODES FOR XXMATT ARE: | | | | |
| UERCNORM EQU X'00' NORMAL (default). | | | | |
| (40) | ADDRESS | 4 | UEPATPTI | Address of primary transaction id. |
| (44) | ADDRESS | 4 | UEPATOTI | Address of attach transaction id. (A tran. id. of X'00000000' indicates that no tran. id. was supplied on the attach.) |
| (48) | ADDRESS | 4 | UEPATTPL | Address of attach tpname length (word) (A length of 0 indicates that a tpname was not supplied on the attach.) |
| (4C) | ADDRESS | 4 | UEPATTPA | Addr of addr of attach tpname (word) |
| (50) | ADDRESS | 4 | UEPATLOC | Address of locate result (byte) Possible values of the locate result: |
| |1 | | UEATFND | "1" Transaction was found |
| |1. | | UEATNFND | "2" Transaction was not found |
| (54) | ADDRESS | 4 | UEPATST | Address of trandef state (byte) Possible values of the trandef state: |
| |1 | | UEATENAB | "1" Transaction is enabled |
| |1. | | UEATDISA | "2" Transaction is disabled |
| (58) | ADDRESS | 4 | UEPATTTK | Address of transaction token |
| XFAINTU PARAMETERS | | | | |
| VALID RETURN CODES FOR XFAINTU ARE: | | | | |
| UERCNORM EQU X'00' NORMAL (default). | | | | |
| (30) | ADDRESS | 4 | UEPFAREQ | Address of request byte Possible values of the request byte: |
| |1 | | UEPFAIN | "1" Initialise request |
| |1. | | UEPFATU | "2" Tidy Up request |
| (34) | ADDRESS | 4 | UEPFATUT | Address of Tidy Up type byte Possible values of the type byte: |
| |1 | | UEPFANTU | "1" Normal tidy up |
| |1. | | UEPFAETU | "2" Expired tidy up |
| (38) | ADDRESS | 4 | UEPFANAM | Address of Facility name |
| (3C) | ADDRESS | 4 | UEPFATYP | Address of Facility type Possible values of the type byte: |
| |1 | | UEPFABR | "1" 3270 Bridge facility |
| (40) | ADDRESS | 4 | UEPFAUAA | Address of Facility User Area |
| (44) | ADDRESS | 4 | UEPFAUAL | Address of User Area length byte |
| XDLPRE PARAMETERS | | | | |
| VALID RETURN CODES FOR XDLPRE ARE: | | | | |
| UERCNORM EQU X'00' NORMAL | | | | |
| UERCBYP EQU X'04' BYPASS DL/1 REQUEST AND RETURN | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPCTYPE | ADDRESS OF TYPE OF REQUEST BYTE |
| EQUATES FOR TYPE OF REQUEST BYTE | | | | |
| | 11.. ..1.1 | | UEPCEXEC | "C'E" EXEC REQUEST |
| | 11.. ..11 | | UEPCCALL | "C'C" CALL REQUEST |
| | 11.. ..11. | | UEPCSHIP | "C'F" FUNCTION SHIPPED REQUEST |
| (34) | ADDRESS | 4 | UEPAPLIST | ADDRESS OF APPLICATION'S PARM LIST |
| (38) | ADDRESS | 4 | UEPLANG | ADDRESS OF LANGUAGE CALL TYPE BYTE |
| EQUATES FOR LANGUAGE BYTE | | | | |
| | 11.1 ..111 | | UEPPLI | "C'P" PLI |
| | 11.. ..11 | | UEPCBL | "C'C" COBOL |
| | 11.. ..1 | | UEPASM | "C'A" ASSEMBLER |
| | 11.. 1.1.1 | | UEPAIB | "C'I" AIB |
| (3C) | ADDRESS | 4 | UEPIOAX | ADDRESS OF IO AREA EXISTENCE FLAG |
| EQUATE FOR IO AREA EXISTENCE BYTE | | | | |
| |1 | | UEPIOA1 | "X'01" IO AREA EXISTS |
| (40) | ADDRESS | 4 | UEPIOA | ADDRESS OF IO AREA |
| (44) | ADDRESS | 4 | UEPPSBNX | ADDRESS OF PSB EXISTENCE FLAG |
| EQUATE FOR PSB EXISTENCE BYTE | | | | |
| |1. | | UEPPSB1 | "X'02" PSB EXISTS |
| (48) | ADDRESS | 4 | UEPPSBNM | ADDRESS OF PSB |
| (4C) | ADDRESS | 4 | UEPSYSDX | ADDRESS OF SYSID EXISTENCE FLAG |
| EQUATE FOR SYSID EXISTENCE BIT | | | | |
| |11 | | UEPSYS1 | "X'03" SYSID EXISTS |
| (50) | ADDRESS | 4 | UEPSYSID | ADDRESS OF SYSID |
| XDLIPOST PARAMETERS | | | | |
| VALID RETURN CODES FOR XDLIPOST ARE: | | | | |
| UERCNORM EQU X'00' NORMAL | | | | |
| UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPCTYPE | UEPCTYPE - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPAPLIST | UEPAPLIST - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UEPLANG | UEPLANG - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | UEPIOAX | UEPIOAX - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | UEPIOA | UEPIOA - AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------------|---|
| (44) | ADDRESS | 4 | UEPUIBX | ADDRESS OF UIB EXISTENCE FLAG |
| EQUATE FOR UIB EXISTENCE BYTE | | | | |
| (48) | ADDRESS | 4 | UEPUIB1 UEPUIB | "X'04" UIB EXISTS ADDRESS OF UIB |
| XMEOUT PARAMETERS VALID RETURN CODES FOR XMEOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' Suppress (bypass) the messages for all destinations. | | | | |
| (40) | ADDRESS | 4 | UEPMNUM | Address of 4 byte message number |
| (44) | ADDRESS | 4 | UEPMDOM | Address of 2 byte dom id (or blank) |
| (48) | ADDRESS | 4 | UEPMROU | Address of array of up to 128 route codes |
| (4C) | ADDRESS | 4 | UEPMNRC | Address of h/word containing number of route codes in array. |
| (50) | ADDRESS | 4 | UEPMTDQ | Address of array of 4 char names of TD queues to send messages to |
| (54) | ADDRESS | 4 | UEPMNTD | Address of h/word containing number of TDQs in the TDQ array |
| (58) | ADDRESS | 4 | UEPINSN | Address of 2 byte number of inserts |
| (5C) | ADDRESS | 4 | UEPINSA | Address of message inserts |
| (60) | ADDRESS | 4 | UEPNRTE | Address of no re-route flag |
| XSTERM PARAMETERS VALID RETURN CODES FOR XSTERM ARE: UERCNORM EQU X'00' NORMAL There are no exit specific parameters for this exit. | | | | |
| XSRAB PARAMETERS VALID RETURN CODES FOR XSRAB ARE: UERCNOCA EQU X'00' Abend task ASRB, don't cancel exits UERCCANC EQU X'04' Abend task ASRB, cancel exits UERCCICS EQU X'08' Abend CICS | | | | |
| (30) | ADDRESS | 4 | UEPERROR | ADDRESS OF SRP_ERROR_DATA |
| XSZBRQ PARAMETERS VALID RETURN CODES FOR XSZBRQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' NOOP THE CALL | | | | |
| (30) | BITSTRING | 2 | UEPSZACT | FEPI Command Code |
| (32) | BITSTRING | 2 | | Unused |
| (34) | CHARACTER | 8 | UEPSZCNV | CONVID |
| (3C) | CHARACTER | 8 | UEPSZALP | POOL |
| (44) | CHARACTER | 8 | UEPSZALT | TARGET |
| (4C) | FULLWORD | 4 | UEPSZTIM | TIMEOUT |
| (50) | ADDRESS | 4 | UEPSZSND | Addr of Outbound Data |
| (54) | FULLWORD | 4 | UEPSZSNL | Len of Outbound Data |
| (58) | CHARACTER | 4 | UEPSZSTT | TRANSID for START |
| (5C) | CHARACTER | 4 | UEPSZSTM | TERMID for START |
| (60) | BITSTRING | 1 | UEPSZSNK | KEYSTROKE Flag |
| | 1... .. | | UEPSZSNK_ON | "X'80" Active |
|  | .... .. |  | UEPSZSNK_OFF | "X'00" InActive |
| (61) | BITSTRING | 1 | UEPSZSNE | ESCAPE Byte |
| XSZARQ PARAMETERS VALID RETURN CODES FOR XSZARQ ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (30) | BITSTRING | 2 | UEPSZACN | FEPI Command Code |
| (32) | BITSTRING | 2 | | Unused |
| (34) | CHARACTER | 8 | UEPSZCON | CONVID |
| (3C) | FULLWORD | 4 | UEPSZRP2 | Response Code |
| (40) | ADDRESS | 4 | UEPSZRVD | Addr of Inbound Data |
| (44) | FULLWORD | 4 | UEPSZRVL | Len of Inbound Data Command Codes |
| (44) | BITSTRING | | UEPSZNOA | "X'820E" AP NOOP |
| (44) | BITSTRING | | UEPSZOAL | "X'8210" ALLOCATE |
| (44) | BITSTRING | | UEPSZOCF | "X'8212" CONVERSE FORMATTED |
| (44) | BITSTRING | | UEPSZOCD | "X'8214" CONVERSE DATASTREAM |
| (44) | BITSTRING | | UEPSZOXC | "X'8216" EXTRACT CONV |
| (44) | BITSTRING | | UEPSZOXF | "X'8218" EXTRACT FIELD |
| (44) | BITSTRING | | UEPSZOXS | "X'821A" EXTRACT STSN |
| (44) | BITSTRING | | UEPSZOFR | "X'821C" FREE |
| (44) | BITSTRING | | UEPSZOSU | "X'821E" ISSUE |
| (44) | BITSTRING | | UEPSZORF | "X'8220" RECEIVE FORMATTED |
| (44) | BITSTRING | | UEPSZORD | "X'8222" RECEIVE DATASTREAM |
| (44) | BITSTRING | | UEPSZOSF | "X'8224" SEND FORMATTED |
| (44) | BITSTRING | | UEPSZOSD | "X'8226" SEND DATASTREAM |
| (44) | BITSTRING | | UEPSZOST | "X'8228" START |
| (44) | BITSTRING | | UEPSZSDN | "X'8402" Normal Shutdown |
| (44) | BITSTRING | | UEPSZSDI | "X'8404" Immediate Shutdown |
| (44) | BITSTRING | | UEPSZSDF | "X'8406" Forced Shutdown |
| (44) | BITSTRING | | UEPSZEOT | "X'8408" CICS End of Task |
| (44) | BITSTRING | | UEPSZNOS | "X'840E" SP NOOP |
| (44) | BITSTRING | | UEPSZOQY | "X'8422" INQUIRE PROPERTYSET |
| (44) | BITSTRING | | UEPSZOIY | "X'8428" INSTALL PROPERTYSET |
| (44) | BITSTRING | | UEPSZODY | "X'8430" DISCARD PROPERTYSET |
| (44) | BITSTRING | | UEPSZOQN | "X'8442" INQUIRE NODE |
| (44) | BITSTRING | | UEPSZOTN | "X'8444" SET NODE |
| (44) | BITSTRING | | UEPSZOIN | "X'8448" INSTALL NODE |
| (44) | BITSTRING | | UEPSZOAD | "X'844A" ADD POOL |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|------------------------------------|
| (44) | BITSTRING | | UEPSZODE | "X'844C" DELETE POOL |
| (44) | BITSTRING | | UEPSZODN | "X'8450" DISCARD NODE |
| (44) | BITSTRING | | UEPSZOQP | "X'8462" INQUIRE POOL |
| (44) | BITSTRING | | UEPSZOTP | "X'8464" SET POOL |
| (44) | BITSTRING | | UEPSZOIP | "X'8468" INSTALL POOL |
| (44) | BITSTRING | | UEPSZODP | "X'8470" DISCARD POOL |
| (44) | BITSTRING | | UEPSZOQT | "X'8482" INQUIRE TARGET |
| (44) | BITSTRING | | UEPSZOTT | "X'8484" SET TARGET |
| (44) | BITSTRING | | UEPSZOIT | "X'8488" INSTALL TARGET |
| (44) | BITSTRING | | UEPSZODT | "X'8490" DISCARD TARGET |
| (44) | BITSTRING | | UEPSZOQC | "X'84A2" INQUIRE CONNECTION |
| (44) | BITSTRING | | UEPSZOTC | "X'84A4" SET CONNECTION |
| XPCHAIR PARAMETERS VALID RETURN CODES FOR XPCHAIR ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTACB - AS DEFINED ABOVE |
| XPCTA PARAMETERS VALID RETURN CODES FOR XPCTA ARE: UERCNORM EQU X'00' NORMAL UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPPCDS - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTACB - AS DEFINED ABOVE |
| XEIIN PARAMETERS VALID RETURN CODES FOR XEIIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPARG | ADDRESS OF COMMAND LEVEL PLIST |
| (34) | ADDRESS | 4 | UEPEXECB | ADDRESS OF EXEC INTERFACE BLOCK |
| (38) | ADDRESS | 4 | UEPUSID | ADDRESS OF TASK USERID |
| (3C) | ADDRESS | 4 | UEPPGM | ADDRESS OF PROGRAM NAME |
| (40) | ADDRESS | 4 | UEPLOAD | PROGRAM LOAD ADDRESS |
| (44) | ADDRESS | 4 | UEPRSA | ADDRESS OF APPL REGISTER SAVE AREA |
| XEIOUT PARAMETERS VALID RETURN CODES FOR XEIIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| XEISPIN PARAMETERS VALID RETURN CODES FOR XEIIISPIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCBYP EQU X'04' BYPASS REQUEST UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| XEISPOUT PARAMETERS VALID RETURN CODES FOR XEIIISPOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPARG - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPEXECB - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPUSID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPPGM - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPLOAD - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPRSA - AS DEFINED ABOVE |
| XSNON PARAMETERS VALID RETURN CODES FOR XSNON ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPUSRID | ADDRESS OF TERMINAL USERID |
| (34) | ADDRESS | 4 | UEPUSRLN | ADDRESS OF TERMINAL USERID LENGTH |
| (38) | ADDRESS | 4 | UEPGRPID | ADDRESS OF GROUP ID |
| (3C) | ADDRESS | 4 | UEPGRPLN | ADDRESS OF GROUP ID LENGTH |
| (40) | ADDRESS | 4 | UEPNETN | ADDRESS OF NETNAME |
| (44) | ADDRESS | 4 | UEPTRMID | ADDRESS OF TERMINAL ID |
| (48) | ADDRESS | 4 | UEPTCTUA | ADDRESS OF TCT USER AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|---------|-----|------------|--|
| (4C) | ADDRESS | 4 | UEPTCTUL | ADDRESS OF TCT USER AREA LENGTH |
| (50) | ADDRESS | 4 | UEPTRMTY | ADDRESS OF TERMINAL TYPE BYTE |
| Terminal Type is derived from the DEVICE attribute of the TERMTYPE RDO resource. | | | | |
| (54) | ADDRESS | 4 | UEPSNFLG | ADDRESS OF SIGNON/OFF FLAG BYTES |
| equates for Signon/off flag byte1 | | | | |
| .... | .... |  | UEPSNOK | "0" Sign-on/off successful |
| .... | ....1 | | UEPSNFL | "1" Sign-on/off failed |
| equates for Signon/off flag byte2 | | | | |
| .... | .... |  | UEPSNNML | "0" Normal sign-on/off (not timeout) |
| .... | ....1 | | UEPSNTIM | "1" Timeout sign-off |
| XSNOFF PARAMETERS VALID RETURN CODES FOR XSNOFF ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPUSRID - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPUSRLN - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPGRPID - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPGRPLN - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | | UEPNETN - AS DEFINED ABOVE |
| (44) | ADDRESS | 4 | | UEPTRMID - AS DEFINED ABOVE |
| (48) | ADDRESS | 4 | | UEPTCTUA - AS DEFINED ABOVE |
| (4C) | ADDRESS | 4 | | UEPTCTUL - AS DEFINED ABOVE |
| (50) | ADDRESS | 4 | | UEPTRMTY - AS DEFINED ABOVE |
| (54) | ADDRESS | 4 | | UEPSNFLG - AS DEFINED ABOVE |
| XRMIIN PARAMETERS VALID RETURN CODES FOR XRMIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPTRUEN | ADDRESS OF NAME OF TRUE |
| (34) | ADDRESS | 4 | UEPTRUEP | ADDRESS OF TRUE's PARAMETER LIST |
| (38) | ADDRESS | 4 | | RESERVED |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XRMIOUT PARAMETERS VALID RETURN CODES FOR XRMIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | | UEPTRUEN - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTRUEP - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | RESERVED |
| (3C) | ADDRESS | 4 | | RESERVED |
| (40) | ADDRESS | 4 | | RESERVED |
| (44) | ADDRESS | 4 | | RESERVED |
| (48) | ADDRESS | 4 | | UEPRECUR - AS DEFINED ABOVE |
| XFCBFAIL PARAMETERS VALID RETURN CODES FOR XFCBFAIL ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCBYP EQU X'04' BYPASS (IGNORE ERROR) VALID VALUES FOR UEPFCRSP ARE: UEDUPREC EQU X'10' DUPLICATE KEY ON UNIQUE AIX UENOSPAC EQU X'20' NO SPACE AVAILABLE UEIOEROR EQU X'24' I/O ERROR UENOLDEL EQU X'40' LOGICAL DELETE BYPASSED UENBWBK EQU X'41' NON-BWO BACKUP IN PROGRESS UEDLOCK EQU X'B0' DEADLOCK UERLSERR EQU X'C0' VSAM RLS FAILURE DETECTED UERLSDIS EQU X'C1' VSAM RLS ACCESS DISABLED UERLSCON EQU X'C2' CONTINUATION OF RLS REQUEST DISABLED UECACHE EQU X'C3' VSAM RLS CACHE FAILURE UELCKFUL EQU X'C4' VSAM LOCK STRUCTURE FULL UEAIXFUL EQU X'F0' NO SPACE IN NON_UNIQUE AIX UEOPENER EQU X'FB' FILE OPEN ERROR UEUNEXP EQU X'FE' UNEXPECTED ERROR VALID VALUES FOR UEPERR ARE: XBFENO EQU X'00' NO ERROR XBFERU EQU X'01' READ UPDATE ERROR XBFERE EQU X'04' REWRITE ERROR XBFEWR EQU X'08' WRITE ERROR XBFEDL EQU X'20' DELETE ERROR | | | | |
| (30) | ADDRESS | 4 | UEPBLOGR | ADDRESS OF LOG RECORD BEING BACKED OUT |
| (34) | ADDRESS | 4 | UEPTRANS | ADDRESS OF TRANSACTION ID |
| (38) | ADDRESS | 4 | UEPTRMNL | ADDRESS OF TERMINAL ID |
| (3C) | ADDRESS | 4 | UEPTASK | ADDRESS OF TASK NUMBER |
| (40) | ADDRESS | 4 | UEPFCRSP | ADDRESS OF FILE CONTROL RESPONSE BYTE |
| (44) | ADDRESS | 4 | UEPERR | ADDRESS OF ERROR-TYPE BYTE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|------------|-----|----------------------------------|--|
| XFCLDEL PARAMETERS VALID RETURN CODES FOR XFCLDEL ARE: UERCFAIL EQU X'00' TREAT AS BACKOUT FAILURE UERCLDEL EQU X'04' LOGICALLY DELETE RECORD BY REAPPLYING | | | | |
| (30) | ADDRESS | 4 | | UEPBLOGR - AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | | UEPTRANS - AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | | UEPTRMNL - AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | | UEPTASK - AS DEFINED ABOVE |
| (40) | ADDRESS | 4 | UEPFDATA | ADDRESS OF DATA TO LOGICALLY DELETE |
| (44) | ADDRESS | 4 | UEPFLEN | ADDRESS OF FULLWORD LENGTH OF DATA |
| XFCBOVER PARAMETERS VALID RETURN CODES FOR XFCBOVER ARE: UERCNORM EQU X'00' DO NOT BACKOUT LOG RECORD UERCCKO EQU X'04' PERFORM THE BACKOUT OF THE LOG RECORD | | | | |
| (30) | ADDRESS | 4 | UEPOLOGR | ADDRESS OF OVERRIDEN LOG RECORD |
| (34) | ADDRESS | 4 | UEPODSN | ADDRESS OF OVERRIDEN DATA SET |
| XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING | | | | |
| (30) | ADDRESS | 4 | UEPFLOGR | ADDRESS OF FC LOG RECORD |
| XLGSTRM PARAMETERS VALID RETURN CODES FOR XLGSTRM ARE: UERCNORM EQU X'00' NORMAL (DEFINE STREAM) UERCBYP EQU X'04' BYPASS (DO NOT DEFINE STREAM) VALID VALUES FOR UEPLGTYP ARE: UEPSYSLG EQU X'01' SYSTEM LOG UEPGENLG EQU X'02' GENERAL LOG | | | | |
| (40) | ADDRESS | 4 | UEPLSN | ADDRESS OF 26-BYTE LOG STREAM NAME |
| (44) | ADDRESS | 4 | UEPMLSN | ADDRESS OF 26-BYTE MODEL STREAM NAME |
| (48) | ADDRESS | 4 | UEPIXG | ADDRESS OF IXGINVNT MACRO LIST FORM |
| (4C) | ADDRESS | 4 | UEPLGTYP | ADDRESS OF 1-BYTE LOG TYPE |
| |1 | | UEPSYSLG | "X'01'" SYSTEM LOG |
| |1. | | UEPGENLG | "X'02'" GENERAL LOG |
| XLGWBC PARAMETERS VALID RETURN CODES FOR XLGWBC ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (40) | ADDRESS | 4 | UEP_LG_FUNCTION | address of 1-byte function Note: This is a reserved GLUE, if it is enabled it will be ignored by the Log Manager |
| |1 | | UEP_LG_FUN_OPEN | "X'01'" open function, called when the log is connected to |
| |1. | | UEP_LG_FUN_WRITE | "X'02'" write function, called following a successful write to the log |
| |11 | | UEP_LG_FUN_TERM_ LOG_FAIL_GAP | "X'03'" terminate function, called following a log failure and the possibility of a gap exists |
| |1.. | | UEP_LG_FUN_TERM_ LOG_FAIL_NO_GAP | "X'04'" terminate function, called following a log failure and there is no gap |
| |1.1 | | UEP_LG_FUN_TERM_ LOG_OK_GAP | "X'05'" terminate function, called when the log is disconnected normally but there is a possibility that a gap exists |
| |11. | | UEP_LG_FUN_TERM_ LOG_OK_NO_GAP | "X'06'" terminate function, called when the log is disconnected normally and there is no gap |
| |111 | | UEP_LG_FUN_GET_ DELETE_POINT | "X'07'" get delete point function, called when a delete is about to be issued and returns a log delete point. This only applies to the system log. |
| Parameters applicable to ALL functions (and always present) | | | | |
| (44) | ADDRESS | 4 | UEP_LG_ LOG_STREAM_NAME | address of 26-byte log stream name |
| (48) | ADDRESS | 4 | UEP_LG_ LOG_TYPE | address of 1-byte log stream type |
| |1 | | UEP_LG_ SYSTEM_LOG | "X'01'"system log |
| |1. | | UEP_LG_ GENERAL_LOG | "X'02'"general log |
| (4C) | ADDRESS | 4 | UEP_LG_ CICS_START_GMT | address of an 8-byte field containing the CICS start time in STCK format |
| (50) | ADDRESS | 4 | UEP_LG_ CICS_APPLID | address of an 8-byte field containing the CICS applid (or the generic applid for XRF) |
| Extra parameters applicable ONLY to the WRITE function | | | | |
| (54) | ADDRESS | 4 | UEP_LG_BLOCK | address of a variable length block containing the data just written to the log |
| (58) | ADDRESS | 4 | UEP_LG_BLOCK_LENGTH | address of a 4-byte field containing the length of the block of data just written to the log |
| (5C) | ADDRESS | 4 | UEP_LG_BLOCK_ID | address of an 8-byte field containing the id of the block just written to the log |
| (60) | ADDRESS | 4 | UEP_LG_BLOCK_TIMESTAMP | address of an 8-byte field containing the timestamp of the block just written to the log |
| Extra parameters applicable ONLY to the GET DELETE POINT function | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|---------|-----|-------------------------|--|
| (64) | ADDRESS | 4 | UEP_LG_DELETE_BLOCK_ID | address of an 8-byte field, on return containing the block id of the log delete point chosen by the exit program. A zero address on return implies keep all data on the log. |
| (68) | ADDRESS | 4 | UEP_LG_DELETE_TIMESTAMP | |

XFCVSDS PARAMETERS
Valid return codes for XFCVSDS are:
UERCNORM EQU X'00' Normal (process VSAM RLS action)
UERCBYP EQU X'04' Bypass (suppress VSAM RLS action)

| | | | | |
|------|---------|---|----------|-----------------------------------|
| (30) | ADDRESS | 4 | UEPDSNAM | Address of dataset name |
| (34) | ADDRESS | 4 | UEPVSACT | Address of VSAM RLS action (byte) |
| (38) | ADDRESS | 4 | UEPQUCLS | Address of close type (byte) |
| (3C) | ADDRESS | 4 | UEPCPTEC | Address of copy technique (byte) |

Constants for byte addressed by UEPVSACT

| | | | |
|------|------|----------|-----------------------------|
| .... | ...1 | UEQUIES | "1" Quiesce dataset |
| .... | ..1. | UEUNQUIS | "2" Unquiesce dataset |
| .... | ..11 | UENBWST | "3" Non-BWO backup start |
| .... | .1.. | UENBWCMP | "4" Non-BWO backup complete |
| .... | .1.1 | UEBWOST | "5" BWO backup start |
| .... | .11. | UEBWOCMP | "6" BWO backup complete |

Constants for byte addressed by UEPQUCLS

| | | | |
|------|------|----------|--|
| .... | ...1 | UEORDCLO | "1" Close files when syncpoint reached |
| .... | ..1. | UEIMMCLO | "2" Close files immediately via purge |

Constants for byte addressed by UEPCPTEC

| | | | |
|------|------|----------|--------------------------------------|
| .... | ...1 | UEORDCOP | "1" Concurrent copy will not be used |
| .... | ..1. | UECONCOP | "2" Concurrent copy will be used |

XFCQUIS PARAMETERS
Valid return codes for XFCQUIS are:
UERCNORM EQU X'00' Normal

| | | | | |
|------|---------|---|----------|--|
| (30) | ADDRESS | 4 | UEPQDSNM | Addr of dataset name |
| (34) | ADDRESS | 4 | UEPQSTAT | Addr of desired quiesce state (byte) |
| (38) | ADDRESS | 4 | UEPQRUDE | Addr of quiesce result (byte) |
| (3C) | ADDRESS | 4 | UEPQCONF | Addr of any conflicting quiesce (byte) |

Constants for byte addressed by UEPQSTAT

| | | | |
|------|------|---------|--|
| .... | ...1 | UEQSD | "1" Quiesced (normal close) requested |
| .... | ..1. | UEIMQSD | "2" Quiesced (immediate close) requested |
| .... | ..11 | UEUNQSD | "3" Unquiesced requested |

Constants for byte addressed by UEPQRUDE

| | | | |
|------|------|----------|---|
| .... | ...1 | UEQOK | "1" Successful |
| .... | ..1. | UEQREJEC | "2" Rejected - see UEPQCONF for conflict |
| .... | ..11 | UEQCANCL | "3" Failed - quiesce cancelled by user |
| .... | .1.. | UEQTIMED | "4" Failed - quiesce cancelled by timeout |
| .... | .1.1 | UEQIOERR | "5" Failed - i/o error or server failure |
| .... | .11. | UEQUNKNO | "6" Failed - dataset not DFSMS VSAM |
| .... | .111 | UEQMIGRT | "7" Failed - dataset migrated |

Constants for byte addressed by UEPQCONF

| | | | |
|------|------|----------|--|
| .... | ...1 | UEQUIINP | "1" Conflicting quiesce in progress |
| .... | ..1. | UEUNQINP | "2" Conflicting unquiesce in progress |
| .... | ..11 | UENBWINP | "3" Conflicting non-BWO backup in progress |
| .... | .1.. | UEBWOINP | "4" Conflicting BWO backup in progress |
| .... | .1.1 | UEUNKINP | "5" Unknown conflicting event |

XBADEACT PARAMETERS
VALID RETURN CODES FOR XBADEACT ARE:
UERCNORM EQU X'00' NORMAL
check parm list hasn't already been generated by XBADEACT

| | | | | |
|------|---------|---|---------|------------------------------------|
| (40) | ADDRESS | 4 | UEPACIN | ADDRESS OF ACTIVITY INDICATOR BYTE |
|------|---------|---|---------|------------------------------------|

EQUATES FOR ACTIVITY INDICATOR

| | | | | |
|------|---------|------|----------|----------------------------|
| | 11.1 | 1..1 | UEPROOT | "C'R" ROOT ACTIVITY |
| | 11.. | ..11 | UEPCHILD | "C'C" CHILD ACTIVITY |
| (44) | ADDRESS | 4 | UEPACID | ADDRESS OF ACTIVITY ID |
| (48) | ADDRESS | 4 | UEPACNA | ADDRESS OF ACTIVITY NAME |
| (4C) | ADDRESS | 4 | UEPPRID | ADDRESS OF PROCESS ID |
| (50) | ADDRESS | 4 | UEPPRTY | ADDRESS OF PROCESS TYPE |
| (54) | ADDRESS | 4 | UEPPRNA | ADDRESS OF PROCESS NAME |
| (58) | ADDRESS | 4 | UEPARESP | ADDRESS OF COMPLETION CODE |
| (5C) | ADDRESS | 4 | UEPAABND | ADDRESS OF ABEND CODE |

XBMIN PARAMETERS
VALID RETURN CODES FOR XBMIN ARE:
UERCNORM EQU X'00' NORMAL(DEFAULT)
UERCPURG EQU X'20' PURGED

| | | | | |
|------|---------|---|----------|------------------|
| (30) | ADDRESS | 4 | UEPBMTCT | ADDRESS OF TCTTE |
| (34) | ADDRESS | 4 | UEPEXECB | AS DEFINED ABOVE |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|--------------|---|
| (38) | ADDRESS | 4 | UEPBMCNT | ADDRESS OF FIELD COUNT |
| (3C) | ADDRESS | 4 | UEPBMTAB | ADDRESS OF FIELD INFO TABLE |
| XBMOU PARAMETERS VALID RETURN CODES FOR XBMOU ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED | | | | |
| (30) | ADDRESS | 4 | UEPBMTCT | AS DEFINED ABOVE |
| (34) | ADDRESS | 4 | UEPEXECB | AS DEFINED ABOVE |
| (38) | ADDRESS | 4 | UEPBMCNT | AS DEFINED ABOVE |
| (3C) | ADDRESS | 4 | UEPBMTAB | AS DEFINED ABOVE |
| XINDT1 PARAMETERS VALID RETURN CODES FOR XINDT1 ARE: UERCNORM EQU X'00' NORMAL | | | | |
| (40) | ADDRESS | 4 | UEPREMK | ADDRESS OF 8-BYTE REMARK |
| (44) | ADDRESS | 4 | UEPRUEI | ADDRESS OF RUEI TO BE LOGGED |
| (78) | FULLWORD | 4 | UEPEPEND (0) | END OF TYPE = EP DSECT |
| | .111 1... | | UEPEPLEN | "UEPEPEND-UEPEXN" |
| RETURN CODE EQUATES All RC Equates except UERCNORM which is above | | | | |
| .... | .... |  | UERCSSYS | "X'00" TAKE SYSTEM ACTION |
| .... | .... |  | UERC DTAC | "X'00" Accept record |
| .... | .1.. | | UERC DTRJ | "X'04" Reject record |
| .... | .1.. | | UERC DTCL | "X'04" Close file |
| .... | .... |  | UERC DTOK | "X'00" File open OK |
| .... | 1... | | UERC DTOP | "X'08" Optimise data table add |
| .... | 11.. | | UERC DTEX | "X'0C" Extension for data tables |
| .... | 1... | | UERC DTSH | "X'08" Shared data table load |
| .... | .... |  | UERC NOAC | "X'00" NO ACTION |
| .... | .1.. | | UERC DOK | "X'04" Quit TD processing - return "normal" to caller |
| .... | .1.. | | UERC SWCH | "X'04" SWITCH TO ALTERNATE OR DONT SWITCH AUTOSWITCH OFF. |
| .... | .1.. | | UERC BYP | "X'04" BYPASS (NO ACTION) |
| .... | .1.. | | UERC COIG | "X'04" IGNORE |
| .... | .1.. | | UERC QUE | "X'04" QUEUE THE REQUEST |
| .... | .1.. | | UERC MEA | "X'04" PROGRAM CONTROL ADDRESS MODIFIED |
| .... | .1.. | | UERC SWAP | "X'04" ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAP |
| .... | 1... | | UERC DNA | "X'08" Quit TD processing - return "notauth" to caller |
| .... | .... |  | UERC FAIL | "X'00" TREAT AS BACKOUT FAILURE |
| .... | .1.. | | UERC LDEL | "X'04" LOGICALLY DELETE RECORD BY REAPPLYING |
| .... | .1.. | | UERC BCKO | "X'04" PERFORM THE BACKOUT OF THE LOG RECORD |
| .... | 1... | | UERC IGN | "X'08" IGNORE, RETURN SYSIDERR |
| .... | 1... | | UERC ABNO | "X'08" ABEND CICS WITHOUT DUMP |
| .... | 1... | | UERC NOSW | "X'08" SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAP |
| .... | 11.. | | UERC ABDU | "X'0C" ABEND CICS WITH DUMP |
| .... | .... |  | UERC TEUN | "X'00" TERMINAL UNKNOWN |
| .... | .1.. | | UERC NETN | "X'04" TERMINAL KNOWN, NETNAME RETURNED |
| .... | 1... | | UERC SYSI | "X'08" TERMINAL KNOWN, SYSID RETURNED |
| .... | .1. | | UERC PURG | "X'20" TASK BEING PURGED |
| .... | .... |  | UERC AQUE | "X'00" Queue allocate request |
| .... | .1.. | | UERC APUR | "X'04" Purge allocate request |
| .... | 1... | | UERC AKLL | "X'08" Kill queued tasks for connection |
| .... | 11.. | | UERC AKLM | "X'0C" Kill queued tasks for modegrp |
| .... | 1... | | UERC SCPE | "X'08" Scope returned |
| .... | .... |  | UERC NOCA | "X'00" Abend task ASRB, don't cancel exits |
| .... | .1.. | | UERC CANC | "X'04" Abend task ASRB, cancel exits |
| .... | 1... | | UERC CICS | "X'08" Abend CICS |
| END OF RETURN CODE EQUATES FILE CONTROL RETURN CODE EQUATES FOR UEPFCRSP | | | | |
| ...1 | .... |  | UEDUPREC | "X'10" DUPLICATE KEY ON UNIQUE AIX |
| ..1 | .... |  | UENOSPAC | "X'20" NO SPACE AVAILABLE |
| .1. | .1.. | | UEIOEROR | "X'24" I/O ERROR |
| .1. | .... |  | UENOLDEL | "X'40" LOGICAL DELETE BYPASSED |
| .1. | ...1 | | UENBWBAK | "X'41" NON-BWO BACKUP IN PROGRESS |
| 1.11 | .... |  | UEDLOCK | "X'B0" DEADLOCK |
| 11. | .... |  | UERLSERR | "X'C0" VSAM RLS FAILURE DETECTED |
| 11. | ...1 | | UERLSDIS | "X'C1" VSAM RLS ACCESS DISABLED |
| 11. | .1. | | UERLSCON | "X'C2" CONTINUATION OF RLS REQUEST DISABLED |
| 11. | ..11 | | UECACHE | "X'C3" VSAM RLS CACHE FAILURE |
| 11. | .1.. | | UELCKFUL | "X'C4" VSAM LOCK STRUCTURE FULL |
| 1111 | .... |  | UEAIXFUL | "X'F0" NO SPACE IN NON_UNIQUE AIX |
| 1111 | 1.11 | | UEOPENER | "X'FB" FILE OPEN ERROR |
| 1111 | 111. | | UEUNEXP | "X'FE" UNEXPECTED ERROR |
| END OF FILE CONTROL RETURN CODE EQUATES FILE CONTROL ERROR TYPE BYTE EQUATES FOR UEPERR THE ERROR TYPE INDICATES THE STAGE DURING BACKOUT AT WHICH THE FAILURE OCCURRED | | | | |
| .... | .... |  | XBFENO | "X'00" NO ERROR |
| .... | ...1 | | XBFERU | "X'01" READ UPDATE ERROR |
| .... | .1.. | | XBFERE | "X'04" REWRITE ERROR |
| .... | 1... | | XBFEWR | "X'08" WRITE ERROR |
| ..1. | .... |  | XBFEDL | "X'20" DELETE ERROR |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|---------------|-----|------------|---|
| END OF FILE CONTROL ERROR TYPE BYTE EQUATES | | | | |
| 1... | .... |  | UERTPREP | "X'80" PREPARE |
| .1. | .... |  | UERTCOMM | "X'40" COMMIT UNCONDITIONALLY |
| .1. | .... |  | UERTBACK | "X'20" BACKOUT |
| .... | .... |  | UERTDGCS | "X'10" LOST TO CICS INITIAL START |
| .... | 1... | | UERTDGNK | "X'08" RM SHOULD NOT BE IN-DOUBT |
| .... | .1. | | UERTWAIT | "X'04" RM WILL HAVE TO WAIT FOR OUTCOME |
| .... | .1. | | UERTRSYN | "X'02" RESYNC |
| .... | ....1 | | UERTLAST | "X'01" LAST COMMIT/ABORT IN THREAD |
| 1... | .... |  | UERTONLY | "X'80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT |
| .1. | .... |  | UERTELUW | "X'40" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL. |
| .... | .1. | | UERFPREP | "4" VOTE-YES |
| .... | 1... | | UERFBACK | "8" VOTE-NO |
| .... | 11. | | UERFNLOG | "12" VOTE-YES-BUT-DO-NOT-LOG |
| .... | .1. | | UERFDONE | "4" COMMIT/ABORT COMPLETE |
| .... | 1... | | UERFHOLD | "8" REMEMBER COMMIT/ABORT |
| .... | .1. | | UERFOK | "4" SINGLE PHASE (UERTONLY): COMMITTED OK |
| .... | 1... | | UERFBOUT | "8" SINGLE PHASE (UERTONLY): BACKED OUT |
| 1... | .... |  | UERTEOTR | "X'80" END OF THREAD |
| .1. | .... |  | UERTSOTR | "X'40" START OF TASK |
| 1... | .1. | | UERTRTTR | "X'82" no longer used |
| .1. | .1. | | UERTRTST | "X'42" no longer used |
| .... | .1. | | UERFEOTR | "4" CALL UNDERSTOOD |
| 1... | .... |  | UERTCONN | "X'80" EXTERNAL RESOURCE MANAGER IS |
| .1. | .... |  | UERTNCON | "X'40" EXTERNAL RESOURCE MANAGER IS NOT |
| 1... | .... |  | UERTCORD | "X'80" CICS Orderly Termination |
| .1. | .... |  | UERTCIMM | "X'40" CICS Immediate Termination |
| .1. | .... |  | UERTCABY | "X'20" CICS ABEND (Retry possible - TCBs Dispatchable) |
| .... | ....1 | | UERTCABN | "X'10" CICS ABEND (Retry NOT possible - TCBs Dispatchable) |
| .... | ....1 | | UERTOPCA | "X'01" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable) |
| EXITID EQU-LIST - Global User Exit Number | | | | |
| .... | ....1 | | XTCIN | "1" |
| .... | .1. | | XTCOUT | "2" |
| .... | ....11 | | XTCATT | "3" |
| .... | .1. | | XTCTIN | "4" |
| .... | .1.1 | | XTCTOUT | "5" |
| .... | .11. | | XDSBWT | "6" |
| .... | .111 | | XDSAWT | "7" |
| .... | 1... | | XLGSTRM | "8" |
| .... | 1..1 | | XDUREQ | "9" |
| .... | 1.1. | | XDUCLSE | "10" |
| .... | 1.11 | | XDUOUT | "11" |
| .... | 11.. | | XMEOUT | "12" |
| .... | 11.1 | | XFCREQ | "13" |
| .... | 111. | | XFCREQC | "14" |
| .... | 1111 | | XTSPTOUT | "15" |
| .... | .... |  | XGMTEXT | "16" |
| .... | ....1 | | XMNOUT | "17" |
| .... | ....1. | | XRCINIT | "18" |
| .... | ....11 | | XRCINPT | "19" |
| .... | ....1.. | | XICREQ | "20" |
| .... | ....1.1 | | XICEXP | "21" |
| .... | ....1.11 | | XISLCLQ | "22" |
| .... | ....1.111 | | XPCFTCH | "23" |
| .... | ....1... | | XPCHAIR | "24" |
| .... | ....1.1.1 | | XPCTA | "25" |
| .... | ....1.1.1. | | XPCABND | "26" |
| .... | ....1.1.11 | | XPCREQ | "27" |
| .... | ....1.1.11. | | XPCREQC | "28" |
| .... | ....1.1.11.1 | | XTDREQ | "29" |
| .... | ....1.111. | | XTDIN | "30" |
| .... | ....1.1111 | | XTDOUT | "31" |
| .... | .1. | | XTSQRIN | "32" |
| .... | .1. ....1 | | XTSQROUT | "33" |
| .... | .1. ....1. | | XTSPTIN | "34" |
| .... | .1. ....11 | | XZCIN | "35" |
| .... | .1. ....1.. | | XZCOUT | "36" |
| .... | .1. ....1.1 | | XZCATT | "37" |
| .... | .1. ....1.11 | | XZCOUT1 | "38" |
| .... | .1. ....1.111 | | XXRSTAT | "39" |
| .... | .1. ....1... | | XXDFA | "40" |
| .... | .1. ....1..1 | | XXDFB | "41" |
| .... | .1. ....1.1. | | XXDTO | "42" |
| .... | .1. ....1.11 | | XSTOUT | "43" |
| .... | .1. ....11.. | | XDLIPRE | "44" |
| .... | .1. ....11.1 | | XDLIPOST | "45" |
| .... | .1. ....111. | | XFCSREQ | "46" |
| .... | .1. ....1111 | | XEIIN | "47" |
| .... | .11 | | XEIOUT | "48" |
| .... | .11 ....1 | | XALTENF | "49" |
| .... | .11 ....1. | | XICTENF | "50" |
| .... | .11 ....1.1 | | XDTAD | "51" |
| .... | .11 ....1.. | | XDTRD | "52" |
| .... | .11 ....1.1 | | XDTLC | "53" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|-----|------------|-------------|
| .11 | .11. | | XSTERM | "54" |
| .11 | .111 | | XSRAB | "55" |
| .11 | 1... | | XFCSREQC | "56" |
| .11 | 1..1 | | XSZBRQ | "57" |
| .11 | 1.1. | | XSZARQ | "58" |
| .11 | 1.11 | | XISCONA | "59" |
| .11 | 11.. | | XRSINDI | "60" |
| .11 | 11.1 | | XXMATT | "61" |
| .11 | 111. | | XZIQUE | "62" |
| .11 | 1111 | | XTSEREQ | "63" |
| .1. | .... |  | XTSEREQC | "64" |
| .1. | ...1 | | XTDEREQ | "65" |
| .1. | ..1. | | XTDEREQC | "66" |
| .1. | ..11 | | XICEREQ | "67" |
| .1. | .1.. | | XICEREQC | "68" |
| .1. | .1.1 | | XALCAID | "69" |
| .1. | .11. | | XSNON | "70" |
| .1. | .111 | | XSNOFF | "71" |
| .1. | 1... | | XRMIIN | "72" |
| .1. | 1..1 | | XRMIOU | "73" |
| .1. | 1.1. | | XAKUSER | "74" |
| .1. | 1.11 | | XFCNREC | "75" |
| .1. | 11.. | | XFCBFAIL | "76" |
| .1. | 11.1 | | XFCLDEL | "77" |
| .1. | 111. | | XFCBOVER | "78" |
| .1. | 1111 | | XFCBOUT | "79" |
| .1.1 | .... |  | XFCVSDS | "80" |
| .1.1 | ...1 | | XFCQUIS | "81" |
| .1.1 | ..1. | | XDUREQC | "82" |
| .1.1 | ..11 | | XFCAREQ | "83" |
| .1.1 | .1.. | | XFCAREQC | "84" |
| .1.1 | .1.1 | | XEISPIN | "85" |
| .1.1 | .11. | | XEISPOU | "86" |
| .1.1 | .111 | | XNQEREQ | "87" |
| .1.1 | 1... | | XNQEREQC | "88" |
| .1.1 | 1..1 | | XFAINTU | "89" |
| .1.1 | 1.1. | | XBMIN | "90" |
| .1.1 | 1.11 | | XBMOUT | "91" |
| .1.1 | 11.. | | XBADEACT | "92" |
| .1.1 | 11.1 | | XLDLOAD | "93" |
| .1.1 | 111. | | XLDELETE | "94" |
| .1.1 | 1111 | | XINDT1 | "95" |
| .11. | .... |  | XINDT2 | "96" |
| .11. | ...1 | | XLGWBC | "97" |

UEPB User exit program block

CONTROL BLOCK NAME = DFHUEPBC
(progeny of DFHUEPBC)
DESCRIPTIVE NAME = CICS (UE) User Exit Program Block DSECT
FUNCTION = Copybook for EPB DSECT.

The EPBs are used by User Exits to hold information about programs that have been enabled as User exit programs. The EPBs are shared by the exit points that have had the program enabled, so that there is only one EPB for a program even if it has been enabled at multiple exit points. They are chained off the UETHEPBC field in the User Exit Table Header (UETH).

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB for an exit point is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply point to EPBs for all the programs enabled for an exit point.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|--|
| (0) | STRUCTURE | 104 | DFHEPB | EPB CONTROL BLOCK |
| (0) | CHARACTER | 4 | EPBSAA | STORAGE ACCOUNTING AREA |
| (4) | ADDRESS | 4 | EPBCHAIN | ADDRESS OF NEXT EPB |
| (8) | CHARACTER | 8 | EPBEPN | NAME OF EXIT PROGRAM |
| (10) | ADDRESS | 4 | EPBEPN | ADDRESS OF EXIT PROGRAM |
| (14) | ADDRESS | 4 | EPBGAA | ADDRESS OF GLOBAL AREA |
| (18) | HALFWORD | 2 | EPBGAL | LENGTH OF GLOBAL AREA |
| (1A) | HALFWORD | 2 | EPBGCNT | GLOBAL AREA USE-COUNT |
| (1C) | FULLWORD | 4 | EPBTCNT | TIE-COUNT |
| (20) | CHARACTER | 8 | EPBTICHN_CDS | |
| (20) | ADDRESS | 4 | EPBTICHN | Anchor for unused TIEs |
| (24) | FULLWORD | 4 | EPBTICHN_CT | Security counter |
| (28) | CHARACTER | 8 | EPBCNTS_CDS | |
| (28) | FULLWORD | 4 | EPBINST | Instance count |
| (2C) | FULLWORD | 4 | EPBICNT | Invocation count & start bit Bit 0 on = started |
| (2C) | BITSTRING | 1 | * | |
| | | | 1... .. UESTART | X'80' |
| | | | ..111 1111 | reserved |
| (2D) | UNSIGNED | 3 | * | reserved |
| (30) | HALFWORD | 2 | EPBACNT | ACTIVATION COUNT |
| (32) | HALFWORD | 2 | EPBTAL | LENGTH OF TASK AREA |
| (34) | BITSTRING | 1 | EPBFLAGS | FLAG-BYTE |
| | | | 1... .. UENODEL | X'80' prog loaded by user - do not delete when disabling |
| | | | ..1. * | X'40' reserved |
| | | | ..1. UEDISABL | X'20' entryname is disabled |
| | | | ...1 UERESYNC | X'10' exec resync issued |
| | | | 1... UELINKAM | X'08' linkeditmode specified |
| | | |1. UEIDWAIT | X'04' indoubtwait specified |
| | | |11 * | reserved |
| (35) | CHARACTER | 3 | * | Reserved |
| (38) | FULLWORD | 4 | EPBBIND | INTEREST PROFILE |
| (3C) | CHARACTER | 8 | EPBEMN | LOAD-MODULE NAME |
| (44) | CHARACTER | 8 | EPBQUAL | Qualifier to TRUE's name |
| (4C) | CHARACTER | 8 | EPBTSPTK | TIE STORAGE SUBPOOL TOKEN |
| (54) | ADDRESS | 4 | EPBTIEA | Addr of TIE resvd for shutdwn |
| (58) | ADDRESS | 4 | EPBPGTKN | Program Token |
| (5C) | CHARACTER | 8 | EPBENTIM | Time EPB built |
| (64) | CHARACTER | 2 | EPBTPGMM | TRUE's program_mode |
| (66) | CHARACTER | 2 | EPBPGGMM | GLUE's program_mode |
| (68) | CHARACTER | | EPBEND | End |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|--------|-------------|
| 2 | DECIMAL | 104 | EPBLEN | EPB length |

UEPL User exit program link

CONTROL BLOCK NAME = DFHUEPLC
 (progeny of DFHUEPLC)
 DESCRIPTIVE NAME = CICS (UE) User Exit Program Link DSECT
 FUNCTION = Copybook for EPL DSECT.

The EPLs are used by User Exits to link User Exit Blocks (EPBs) together. There is one EPB per enabled program, and the EPBs are shared by the exit points that have had the program enabled.

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply link to EPBs for all the programs enabled for an exit point.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 24 | DFHEPL | EXIT PROGRAM LINK |
| (0) | CHARACTER | 4 | EPLSAA | STORAGE ACCOUNTING AREA |
| (4) | ADDRESS | 4 | EPLNEPL | ADDRESS OF NEXT EPL |
| (8) | CHARACTER | 8 | EPLNTIM | TIME EPL BUILT |
| (10) | ADDRESS | 4 | EPLPBA | ADDRESS OF EPB |
| (14) | FULLWORD | 4 | EPLINST | INSTANCE NUMBER |
| (18) | CHARACTER | | EPLEND | END |

UETE User exit table entry

CONTROL BLOCK NAME = DFHUETEC
 (progeny of DFHUETEC)
 DESCRIPTIVE NAME = CICS (UE) User Exit Table Entry DSECT
 FUNCTION = Copybook for UETE DSECT.

The UETE contains information specific to a particular exit point. There is one entry per exit point in CICS and all the entries are GETMAINED and initialised by DFHSIC1 during CICS Initialisation.

When a program is enabled at an exit point, a pointer to the EPB for the program is set in the UETE.

For the first program enabled at the exit point, the EPB address is stored directly in the UETEEPBA field.

Subsequent programs enabled at the same exit point, will get an EPL created for them. (The EPL points to an EPB). The EPL chain is chained off the UETENEPL field.

When a CICS Exit is invoked, the UETE associated with the exit point is checked. If the UETEEPBA field is non zero, then control is passed to the program defined in the first EPB. On return from this program, the UETENEPL is chained down, and every program pointed to via the EPL is passed control (in the order the exits were enabled).

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 40 | DFHUETE | |
| (0) | UNSIGNED | 1 | UETEEXN | EXIT NUMBER |
| (1) | CHARACTER | 1 | * | RESERVED |
| (2) | HALFWORD | 2 | UETEDRC | DEFAULT RETURN-CODE |
| (4) | HALFWORD | 2 | UETEMRC | MAXIMUM RETURN-CODE |
| (6) | UNSIGNED | 2 | UETEFLGS | FLAG BYTES |
| (6) | UNSIGNED | 1 | UETEFLG1 | FLAG1 |
| (7) | BITSTRING | 1 | UETEFLG2 | FLAG2 |
| | 1... .. | | UETEXCAP | Exit is EXEC capable |
| | .1.. | | UETERCSV | May be called recursively |
| | ..11 1111 | | * | Reserved |
| (8) | ADDRESS | 4 | UETEFEP | First EPL |
| (C) | FULLWORD | 4 | UETECHNG | Change CTR for EPL chains |
| (10) | CHARACTER | 24 | UETEPL | EPL (EPLND-DFHEPL) |
| (28) | CHARACTER | | UETEEND | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------|--------------------------------|
| 1 | DECIMAL | 0 | UETEAP | EXIT IN AP DOMAIN |
| 1 | DECIMAL | 255 | UETEALL | EXIT IN ALL DOMAINS (POSSIBLY) |

UETH User exit table header

CONTROL BLOCK NAME = DFHUETHC
 (progeny of DFHUETHC)
 DESCRIPTIVE NAME = CICS (UE) User Exit Table Header DSECT
 FUNCTION = Copybook for UETH DSECT.
 The UETH contains global information used by User Exits.
 The User Exit table consists of a header section, followed
 by a list of Table Entries (UETEs). There is one UETE per
 exit point in CICS.
 The User Exit Table is created in DFHSIC1 during CICS
 Initialisation.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|-----------------------------------|
| (0) | STRUCTURE | 176 | DFHUETH | |
| (0) | UNSIGNED | 4 | UETHWA (32) | USER EXIT HANDLER'S WORK AREA |
| (80) | ADDRESS | 4 | UETHEPBC | ANCHOR FOR EPB CHAIN |
| (84) | ADDRESS | 4 | UETHLEA | ADDRESS OF LAST UET ENTRY |
| (88) | HALFWORD | 2 | UETHLEN | LENGTH OF UET |
| (8A) | HALFWORD | 2 | UETHSCT | no. exits interested in TASKSTART |
| (8C) | BITSTRING | 1 | UETHFLAG | UET Flags |
| (8D) | UNSIGNED | 3 | * | RESERVED |
| (90) | CHARACTER | 8 | UETHTRUB | TRUE subpool token below |
| (98) | ADDRESS | 4 | UETHEPBL | Lock_Token for EPBCHAIN lock |
| (9C) | CHARACTER | 4 | * | Reserved |
| (A0) | CHARACTER | 8 | UETHEPBT | EPB subpool token above the line |
| (A8) | ADDRESS | 4 | UETHFEPL | Chain of free EPL's |
| (AC) | ADDRESS | 4 | UETHFEPB | Chain of free EPB's |
| (B0) | CHARACTER | | UETHEND | |

URL User supplied route list entry

MODULE NAME = DFHURLDS
 DESCRIPTIVE NAME = CICS USER-SUPPLIED ROUTE LIST ENTRY
 COPYBOOK DFHURLDS.

All programs which issue DFHBSM TYPE=ROUTE macro instructions must contain a user-supplied route list, defining the terminals and/or operator to which the logical message is to be routed. The entries in the route list must be formatted as described by this DSECT.

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | | | DFHURLDS | DUMMY SECTION - USER'S ROUTE LIST |
| (0) | CHARACTER | 4 | URLTRMID | TERMINAL IDENTIFICATION |
| (4) | CHARACTER | 2 | URLDCMN | LOGICAL DEVICE MNEMONIC |
| (6) | CHARACTER | 3 | URLOPID | OPERATOR IDENTIFICATION |
| (9) | BITSTRING | 1 | URLTSF | STATUS FLAG |
| | 1... .. | | URLSKIP | "X'80" USER ROUTE LIST ENTRY SKIPPED |
| | .1.. | | URLITI | "X'40" INVALID TERMINAL IDENTIFICATION |
| | ..1. | | URLNS | "X'20" TERMINAL NOT SUPPORTED UNDER BMS |
| | ...1 | | URLONSO | "X'10" OPERATOR NOT SIGNED ON |
| | 1... | | URLSOUST | "X'08" OPERATOR SIGNED ON UNSUPPORTED TERMINAL |
| |1.. | | URLINVMN | "X'04" INVALID LDC MNEMONIC |
| (A) | CHARACTER | 6 | URLRESV | RESERVED - MUST BE BLANKS |
| | ...1 | | URLNEXT | "*" START NEXT ENTRY |
| (0) | CHARACTER | 2 | URLCHIND | URL CHAIN INDICATOR |
| THE FOLLOWING ARE ACCEPTABLE VALUES FOR 'URLCHIND' | | | | |
| (0) | BITSTRING | | URLEND | "X'FFFF" END OF URL |
| (0) | BITSTRING | | URLCONT | "X'FFFE" URL CONTINUED IN NEXT SEGMENT |
| (2) | CHARACTER | 2 | | RESERVED |
| (4) | CHARACTER | 4 | URLCHADR | URL CHAIN ADDRESS (NEEDED WHEN URLCHIND IS X'FFFE) |
| | ...1 | | URLCAD | "*-DFHURLDS" LENGTH OF USER ROUTE LIST ENTRY |

VMID Module identifier

CONTROL BLOCK NAME = DFHVMSD
 DESCRIPTIVE NAME = CICS Module Identifier.
 FUNCTION =
 All CICS modules begin with a DFHVM macro that expands to generate the name of the module, its entry point address, the version, modification level and the date and time of assembly. The expansion of the macro is described by DFHVMSD.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------------------|
| (0) | | | DFHVMSD | MODULE IDENTIFIER |
| (0) | CHARACTER | 1 | VMSTART | "*" EYECATCHER |
| (1) | CHARACTER | 8 | VMNAME | FULL NAME FIELD |
| (9) | ADDRESS | 4 | VMEPA31 | Entry point |
| (D) | CHARACTER | 4 | VMVERS | VERSION AND MOD LEVEL |
| (11) | CHARACTER | 1 | VMASM | ASSEMBLED BY USER |
| (12) | CHARACTER | 2 | VMTIME | ASSEMBLY TIME |
| (14) | CHARACTER | 2 | VMDATE | ASSEMBLY DATE |
| (16) | CHARACTER | 8 | VMPTFNO | PTF NUMBER |
| (1E) | BITSTRING | 1 | VMFLAG1 | FIRST FLAG FIELD |
| | .1.. | | VMDLIGEN | "X'40" DL/I GENERATED |
| | ...1 | | VMMVSGEN | "X'10" FOR MVS |
| | 1... | | VMSRBGEN | "X'08" SRB GENERATED |
| |1.. | | VMMVS811 | "X'04" FOR MVS/811 |
| | ...1 1111 | | VMLNGTH | **"-DFHVMSD" MEMBER-DEPENDENT LENGTH |

VSWA Fc VSAM work area

CONTROL BLOCK NAME = DFHVSAS
 DESCRIPTIVE NAME = CICS/ESA (FC) VSAM WORK AREA
 FUNCTION =
 The VSWA is the File Control VSAM Work Area.
 The VSAM Work Area is created by the File Control Program DFHFCVS at the start of processing of a VSAM request (GET, PUT) or series of requests (GET UPDATE - PUT UPDATE, STARTBR - READNEXT - END BROWSE, etc.) and contains information related to the request. The VSWA consists of a CICS part and a VSAM part. The VSAM part is the VSAM RPL that represents the request to VSAM. The VSWA is deleted when the request is terminated.
 LIFETIME =
 Created by DFHFCVS at the start of a request or series of requests. Destroyed by FCVS when the request/series ends.
 STORAGE CLASS =
 Above 16M line.
 LOCATION =
 VSWA is pointed to by the field FRT_WORK_AREA_ADDRESS in the File Request Thread Element (FRTE).
 INNER CONTROL BLOCKS =
 The VSWA contains within it (at offset 8) the VSAM Request Parameter List (RPL).
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = None.
 VSAM WORK AREA

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | DFHVSAS | VSAM work area |
| (0) | CHARACTER | 8 | VSWA_SAA | This section replaces the old storage accounting area |
| (0) | CHARACTER | 1 | VSWACLS | Stg class |
| (1) | CHARACTER | 1 | * | Reserved |
| (2) | UNSIGNED | 2 | VSWALNTH | Length of VSWA |
| (4) | ADDRESS | 4 | VSWANXT | Next VSWA on free chain |
| (8) | CHARACTER | 76 | VSWARPL | VSAM Request Parameter List |
| (8) | FULLWORD | 4 | VSWAIDWD | RPL identification word |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------|-----------|-----|------------------|--|
| (8) | UNSIGNED | 1 | VSWAID | RPL identifier |
| (9) | UNSIGNED | 1 | VSWASTYP | RPL subtype |
| (A) | UNSIGNED | 1 | VSWAREQ | Request type |
| (B) | UNSIGNED | 1 | VSWARLEN | RPL length |
| (C) | ADDRESS | 4 | VSWAPLHP | PLH address |
| (10) | ADDRESS | 4 | VSWAECB | Event control block (ECB) or address of ECB if VSWAECBS = '1'B |
| (10) | CHARACTER | 4 | VSWAECBC | ECB as string |
| (14) | CHARACTER | 4 | VSWARESP | RPL response bytes |
| (14) | UNSIGNED | 1 | VSWASTAT | RPL status flags |
| (15) | CHARACTER | 3 | VSWAFDBK | RPL feedback area |
| (15) | UNSIGNED | 1 | VSWARTNC | RPL return code |
| (16) | CHARACTER | 2 | VSWACNDC | RPL condition code |
| (16) | UNSIGNED | 1 | VSWACMPN | Component issuing the code |
| (17) | UNSIGNED | 1 | VSWAERRC | Error Code |
| (18) | HALFWORD | 2 | VSWARKYL | RPL key length |
| (1A) | HALFWORD | 2 | VSWASTID | RPL string identifier |
| (1C) | ADDRESS | 4 | VSWACCHR | Control character address |
| (20) | ADDRESS | 4 | VSWAACB | ACB address |
| (24) | ADDRESS | 4 | VSWATCB | TCB address |
| (28) | ADDRESS | 4 | VSWAREA | Area Address |
| (2C) | ADDRESS | 4 | VSWAARG | Argument address |
| (30) | CHARACTER | 4 | VSWAOPTC | Option codes |
| (30) | UNSIGNED | 1 | VSWAOPT1 | Option code byte 1 |
| | 1... .. | | * | Reserved |
| | .1. | | VSWADIR | Direct search access |
| | ..1. | | VSWASEQ | Sequential access |
| | ...1 | | * | Reserved |
| | 1... | | VSWAASY | Asynchronous request |
| |1. | | * | Reserved |
| |1 | | VSWAECBS | VSWAECB has ADDR(ECB) |
| (31) | UNSIGNED | 1 | VSWAOPT2 | Option code byte 2 |
| | 1111 11.. | | * | Reserved |
| |1. | | VSWAUPD | Update Processing |
| |1 | | * | Reserved |
| (32) | UNSIGNED | 1 | VSWAOPT3 | Option code byte 3 |
| (33) | UNSIGNED | 1 | VSWAOPT4 | Option code byte 4 |
| (34) | ADDRESS | 4 | VSWANRPL | Next RPL Address |
| (38) | FULLWORD | 4 | VSWALEN | Record length |
| (3C) | FULLWORD | 4 | VSWABUFL | Buffer length |
| (40) | FULLWORD | 4 | * | Reserved |
| (44) | CHARACTER | 8 | VSWARBAR | RBA return field |
| (44) | FULLWORD | 4 | * | Reserved |
| (48) | UNSIGNED | 4 | VSWALRBA | Record RBA |
| (4C) | UNSIGNED | 1 | * | Reserved |
| (4D) | UNSIGNED | 1 | VSWACTIV | Check not issued |
| (4E) | HALFWORD | 2 | VSWAEML | Error message length |
| (50) | ADDRESS | 4 | VSWAEMA | Error message area address END OF FIXED SECTION |
| VARIABLE SECTION | | | | |
| (54) | CHARACTER | 20 | VSWAVRS0 | Variable section 0 |
| (54) | ADDRESS | 4 | VSWAFCT | File control table entry addr |
| (58) | ADDRESS | 4 | VSWA_RECORD_LOCK | Addr record lock area |
| (5C) | ADDRESS | 4 | VSWA_DELETE_LOCK | Addr delete lock area |
| (60) | HALFWORD | 2 | VSWAENQL | Length of ENQ argument |
| (62) | HALFWORD | 2 | VSWA_BKL | Base key/RBA/RRN length |
| (64) | ADDRESS | 4 | * | Reserved |
| (68) | CHARACTER | 12 | VSWAVRS2 | Variable section 2 |
| (68) | ADDRESS | 4 | VSWARIF | Record ID field address |
| (6C) | BITSTRING | 2 | VSWASTLR | STARTBR request codes |
| | 1... .. | | VSWABGEN | Generic browse |
| | .1. | | VSWABRBA | RBA browse |
| | ..1. | | VSWABIP | Browse in progress |
| | ...1 | | VSWA_SEQUENTIAL | Browse positioned for SEQ |
| | 1... | | * | Reserved |
| |1. | | VSWA_DT_WAIT | Data table open is waiting for this request to complete |
| |1. | | VSWA_0890_WAIT | This request is waiting for requests flagged 0890_POST to complete |
| |1 | | VSWA_INFLIGHT | VSAM request is in flight |
| (6D) | BITSTRING | 1 | * | Reserved |
| (6E) | HALFWORD | 2 | VSWAKEYL | Key length |
| (70) | ADDRESS | 4 | * | Reserved |
| (74) | CHARACTER | 64 | VSWAVRS3 | Variable section 3 |
| (74) | ADDRESS | 4 | * | Reserved |
| (78) | ADDRESS | 4 | VSWANEXT | Pointer to next VSWA in base cluster chain. |
| (7C) | ADDRESS | 4 | VSWAPREV | Pointer to previous VSWA in base cluster chain. |
| (80) | ADDRESS | 4 | VSWACHN | General VSWA chain field |
| (80) | ADDRESS | 4 | VSWAXCHN | Pointer to next VSWA waiting for my owner. |
| (84) | ADDRESS | 4 | VSWAOWND | Pointer to VSWA chain for me. |
| (88) | ADDRESS | 4 | VSWAOWNR | Pointer to VSWA for which I am waiting. |
| (8C) | UNSIGNED | 1 | VSWAEXW | ECB posted when exclusive control conflict has been resolved. |
| (8D) | CHARACTER | 1 | VSWAIND | VSAM work area indicators |
| | 1... .. | | VSWAEREQ | VSAM ENDREQ is required |
| | .1. | | VSWABRZI | This is a browse VSWA |
| | ..1. | | VSWAMASS | Mass insert VSWA |
| | ...1 | | VSWAFRST | First request in BROWSE or MASS INSERT sequence or single ADD. |
| | 1... | | VSWASTRG | VSAM string acquired |
| |1. | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|---|
| |1. | | VSWALSRP | Path browse request to LSR file. |
| |1 | | * | Reserved |
| (8E) | HALFWORD | 2 | VSWASTG | Number of strings allocated to access request for a file using LSR. |
| (90) | FULLWORD | 4 | VSWARQST | VSAM Request code |
| (94) | CHARACTER | 4 | VSWA_JECN | System log event number |
| (98) | CHARACTER | 4 | VSWA_SAVE_OPTC | Saved RPL option bytes |
| (9C) | ADDRESS | 4 | VSWASV12 | TCA address |
| (A0) | ADDRESS | 4 | VSWA_FRTE | Address of related FRTE |
| (A4) | HALFWORD | 2 | VSWA_REQD_ STRINGS | Number of strings required for a request (LSR only) |
| (A6) | BITSTRING | 1 | * | |
| | 1... | | VSWA_REM | Need to release exclusive conflict resources. |
| | .1.. | | VSWA_MASS_INSERT | Mass insert |
| | ..1. | | VSWA_ADD_DELETE | Single add or delete |
| | ...1 | | VSWALOCK | End of range id. is locked and must be released |
| | 1... | | VSWA_ESDS_LOCK | ESDS WRITE lock held |
| |1.. | | VSWA_UPDATE | Performing an update |
| |1. | | VSWA_NONRECOV_ LOCK | |
| |1 | | * | Record lock held for duration of read update of non-recoverable file. |
| (A7) | BITSTRING | 1 | * | Reserved |
| | 1... | | VSWA_0890_POST | DFHFCVR is waiting for this request to complete. Set by DFHFCVR to indicate its interest in completion of request |
| | .1.. | | VSWA_BACKWARDS | Backward browse |
| | ..11 1111 | | * | Reserved |
| (A8) | ADDRESS | 4 | VSWA_DATA_BUFFER1 | 1st work-buffer address |
| (AC) | ADDRESS | 4 | VSWA_DATA_BUFFER2 | 2nd work-buffer address |
| (B0) | HALFWORD | 2 | VSWA_LAST_LEN | Last specified keylength |
| (B2) | HALFWORD | 2 | VSWA_LOG_LENGTH | Length for logging |
| (B4) | CHARACTER | * | VSWADBA | End of fixed part of VSWA |

Reference key copy.

| | | | | |
|------|-----------|---|----------|---------------|
| (B4) | CHARACTER | * | VSWAXKEY | Reference key |
|------|-----------|---|----------|---------------|

Extension for base key copy.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | * | VSWAENID | Enqueue identifier |
| (0) | ADDRESS | 4 | VSWABCAD | Addr of base cluster block |
| (4) | CHARACTER | * | VSWABKEY | Primary key of record |

WBCDC Web interface converter parms

-

This copybook defines the parameter lists which are passed to the 2 functions (DECODE and ENCODE) of the user replaceable converter program.

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The top level definition for dfhcommarea.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (0) | STRUCTURE | * | DFHCOMMAREA | |
| (0) | CHARACTER | * | COMM_PARMLIST | |

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The fields at the start of the converter commarea must be accessible independent of the converter function being called. These declarations provide a definition of the commarea in terms of these common fields.

< Variable >
 Meaning

< converter_ parms >
 The high-level definition of the parameter area passed to the converter in the COMMAREA.

< converter_ eyecatcher >
 The eyecatcher used to determine that the converter COMMAREA is not corrupt. The value it takes varies depending on the converter function involved. The possible values are defined in the DFHWBUCx copybook.

< converter_ function >
 The value used to determine which converter function is involved on this call. Possible values are the constants DECODE, ENCODE.

< converter_ response >
 The fullword response value produced by a converter which has not been passed a valid converter_ function value. The recommended response in this circumstance is URP_ INVALID.

< converter_ reason >
 The fullword reason value returned by a converter which has not been passed a valid converter_ function value. No reason values are architected for this error situation in the CICS Web Browser Interface. Users may define their own values.

< converter_ parmlist >
 The rest of the parameters. The structure of this data varies depending on which converter function is involved.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | * | CONVERTER_PARMS | |
| (0) | CHARACTER | 8 | CONVERTER_ EYECATCHER | |
| (8) | CHARACTER | 1 | CONVERTER_ VERSION | |
| (9) | CHARACTER | 1 | CONVERTER_ VOLATILE | |
| (A) | HALFWORD | 2 | CONVERTER_ FUNCTION | |
| (C) | UNSIGNED | 4 | CONVERTER_ RESPONSE | |
| (10) | UNSIGNED | 4 | CONVERTER_ REASON | |
| (14) | CHARACTER | * | CONVERTER_ PARMLIST | |

```
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-  
  
These declarations define the parameter list which  
is passed to the DECODE function of the user replaceable  
converter program. It is called by the server controller.  
  
The variables in the decode parameter list are as follows:  
  
< Variable >  
Meaning  
  
< decode_ eyecatcher > (input)  
A character field to contain an eyecatcher to help with  
diagnostics and provide a sanity check for the Converter  
program if required. The  
Server Controller sets this to the value of constant  
DECODE_ EYECATCHER_ INIT before calling decode.  
  
< decode_ version > (input)  
A single-character parameter-list version identifier.  
It will change whenever the layout of the parameter list changes.  
Possible values:  
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list  
Character zero (X'F0') -- CICS/TS1.3 version parameter list  
  
< decode_ volatile > (input)  
A single-character code that indicates whether the data area  
pointed to by "decode_ data_ptr" can be replaced or not:  
'0' -- The area cannot be replaced: it is part of another  
commarea.  
'1' -- The storage pointed to by "decode_ data_ptr" can be freed  
and replaced by a different size workarea.  
  
< decode_ function > (input)  
A halfword set to the constant value URP_ DECODE .  
Set to indicate to the converter the function required.  
  
< decode_ response > (output)  
The response value produced by decode.  
Possible values are:  
  
- URP_OK  
- URP_EXCEPTION  
- URP_INVALID  
- URP_DISASTER  
  
< decode_ reason > (output)  
The reason for a response produced by decode.  
The architected values for EXCEPTION responses are:  
  
- URP_SECURITY_FAILURE  
  
Other values may be supplied and given user-defined meanings.  
  
< decode_ client_ address > (input)  
The IP address of the client.  
  
< decode_ client_ address_string > (input)  
The IP address of the client in "ww.xx.yy.zz" format.  
  
< decode_ data_ptr > (input / output)  
A pointer to the HTTP request sent by the client.  
  
< decode_ method_ptr > (input)  
Pointer to the method specified on the HTTP request sent by the  
client.  
  
< decode_ http_version_ptr > (input)  
Pointer to a string identifying the HTTP version supported by the  
client.  
  
< decode_ http_resource_ptr > (input)  
Pointer to the CICS resource requested by the client. In HTTP  
protocol  
terminology, this is the "absolute path" information in the HTTP  
request. Because CICS does not have any concept of "paths" or  
the hierarchical file systems on which paths rely, we have  
elected  
to use a term more appropriate to CICS in our documentation.
```

< decode_ request_ header_ptr > (input)
 Pointer to the first HTTP header in the HTTP request. There are usually multiple HTTP headers for each HTTP request. Each header is delimited by a CR+LF. The end of the header information is delimited by a null header (that is, an additional CR+LF following final HTTP header).

< decode_ user_data_ptr > (input)
 A pointer to any user data for this HTTP request.

< decode_ method_length > (input)
 Length of the method specified on the HTTP request sent by the client.

< decode_ http_version_length > (input)
 Length of the string identifying the version of HTTP supported by the client.

< decode_ http_resource_length > (input)
 Length of the string containing the HTTP header information for this HTTP request. This length includes the lengths of all the delimiting CR+LFs for all the headers, including the final CR+LF of the null header which signals the end of the headers.

< decode_ request_header_length > (input)
 Length of the string identifying the CICS resource requested by supported by the client.

< decode_ user_data_length > (input)
 Length of the user data.

< decode_ input_data_len > (output)
 The server input data length associated with the program processing the HTTP request. This is set to the default 32767, but can be overwritten in decode, possibly to reflect information contained in the client data. This length is used as INPUTDATALENGTH on the EXEC CICS LINK to the user program.

< decode_ output_data_len > (output)
 The server output data length associated with the program processing the HTTP request. This is set to the default 32767, but can be overwritten in decode, possibly to reflect information contained in the client data. It is the size of the output commarea.

< decode_ server_program > (input / output)
 The CICS program invoked to process the incoming HTTP request. Initialised to the program name allocated by the ATTACH exit for the requested URL. The program name can be changed by the analyzer.

< decode_ user_token > (input / output)
 A token for use by users. Could for example identify any state data associated with this HTTP request.

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|--|-------------|
| Hex | | | | |
| (0) | STRUCTURE | 100 | DECODE_PARMS | |
| (0) | CHARACTER | 8 | DECODE_EYECATCHER | |
| (8) | CHARACTER | 1 | DECODE_VERSION | |
| (9) | CHARACTER | 1 | DECODE_VOLATILE | |
| (A) | HALFWORD | 2 | DECODE_FUNCTION | |
| (C) | UNSIGNED | 4 | DECODE_RESPONSE | |
| (10) | UNSIGNED | 4 | DECODE_REASON | |
| (14) | UNSIGNED | 4 | DECODE_ | |
| (18) | CHARACTER | 15 | CLIENT_ADDRESS DECODE_CLIENT_ ADDRESS_STRING | |
| (27) | CHARACTER | 1 | * | |
| (28) | ADDRESS | 4 | DECODE_DATA_PTR | |
| (2C) | ADDRESS | 4 | DECODE_METHOD_PTR | |
| (30) | ADDRESS | 4 | DECODE_ | |
| (34) | ADDRESS | 4 | HTTP_VERSION_PTR | |
| (38) | ADDRESS | 4 | DECODE_RESOURCE_PTR | |
| (3C) | ADDRESS | 4 | DECODE_REQUEST_ HEADER_PTR | |
| (40) | HALFWORD | 2 | DECODE_ USER_DATA_PTR | |
| | | | DECODE_ METHOD_LENGTH | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------------|-------------|
| (42) | HALFWORD | 2 | DECODE_ HTTP_VERSION_ LENGTH | |
| (44) | HALFWORD | 2 | DECODE_ RESOURCE_LENGTH | |
| (46) | HALFWORD | 2 | DECODE_ REQUEST_ HEADER_LENGTH | |
| (48) | FULLWORD | 4 | DECODE_ INPUT_DATA_LEN | |
| (4C) | HALFWORD | 2 | DECODE_ USER_DATA_LENGTH | |
| (50) | FULLWORD | 4 | DECODE_ OUTPUT_DATA_LEN | |
| (54) | CHARACTER | 8 | DECODE_ SERVER_PROGRAM | |
| (5C) | CHARACTER | 8 | DECODE_ USER_TOKEN | |

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These declarations define the parameter list which is passed to the ENCODE function of the user replaceable Converter program. It is called by the alias program if data mapping of the remote procedure's output is required. The parameter list is passed as a commarea from the alias.

< Variable >
Meaning

< encode_eyecatcher >
A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the Converter program if required. The alias sets this to the value of constant ENCODE_ EYECATCHER_INIT before calling encode.

< encode_version > (input)
A single-character parameter-list version identifier. It will change whenever the layout of the parameter list changes.
Possible values:
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list
Character zero (X'F0') -- CICS/TS1.3 version parameter list

< encode_volatile > (input)
A single-character code that indicates whether the data area pointed to by "encode_data_ptr" can be replaced or not:
'0' -- The area cannot be replaced: it is part of another commarea.
'1' -- The storage pointed to by "encode_data_ptr" can be freed and replaced by a different size workarea.

< encode_function > (input)
A halfword set to the constant value URP_ENCODE . This is set by the alias before linking to the converter program. It allows the converter to determine which function is being requested.

< encode_response > (output)
The fullword response value produced by decode.
Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< encode_reason > (output)
The fullword reason value returned by encode for response values other than OK. No reason values are architected for encode in the CICS Web Browser Interface. Users may define their own values.

< encode_data_ptr > (input)
A pointer reference to the storage area containing the output from the server program which is to be manipulated by the encode function

< encode_input_data_len > (input)
A fullword field indicating the length of the data to be encoded by the converter.

< encode_user_token > (input)
A token for use by users. Could for example identify any state data associated with this HTTP request.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------------|-------------|
| (0) | STRUCTURE | 36 | ENCODE_PARDS | |
| (0) | CHARACTER | 8 | ENCODE_EYECATCHER | |
| (8) | CHARACTER | 1 | ENCODE_VERSION | |
| (9) | CHARACTER | 1 | ENCODE_VOLATILE | |
| (A) | HALFWORD | 2 | ENCODE_FUNCTION | |
| (C) | UNSIGNED | 4 | ENCODE_RESPONSE | |
| (10) | UNSIGNED | 4 | ENCODE_REASON | |
| (14) | ADDRESS | 4 | ENCODE_DATA_PTR | |
| (18) | FULLWORD | 4 | ENCODE_ | |
| | | | INPUT_DATA_LEN | |
| (1C) | CHARACTER | 8 | ENCODE_USER_TOKEN | |

WBTDC Web interface analyzer parms

These declarations define the parameter list which is passed to the ANALYZER program by the server controller component on an EXEC CICS LINK.

< Variable >
Meaning

< wbra_eyecatcher >
A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the analyzer. Server Controller sets this to the value of constant WBRA_EYECATCHER_INIT before calling the analyzer.

< wbra_response > (output)
The fullword response value produced by the analyzer. Possible values are:

- URP_OK
- URP_EXCEPTION
- URP_INVALID
- URP_DISASTER

< wbra_reason > (output)
The fullword reason value returned by the analyzer for response values other than OK. No reason values are architected for the analyzer in the CICS Web Browser Interface. Users may define their own values.

< wbra_server_program > (output)
The CICS program to be used for this HTTP request.

< wbra_converter_program > (output)
The converter to be used for this HTTP request.

< wbra_userid > (output)
The userid which is to be used on the EXEC CICS START for the alias transaction for this HTTP request.

< wbra_alias_tranid > (output)
The alias transaction ID to be used for this HTTP request.

< wbra_alias_termid > (output)
The termid to be used on the START request for the alias.

< wbra_user_token > (output)
A char(8) token which uniquely identifies the HTTP request being processed.

< wbra_dfhcnv_key > (output)
A char(8) name to be used as the key into the DFHCNV table for the codepage translation of the user data for this request.

< wbra_client_ip_address > (input)
The TCP/IP address of the client.

< wbra_server_ip_address > (input)
The TCP/IP address of the CICS system.

| | | | | |
|---|------|--|--|--|
| < wbra_resource_escaped_ptr > (input) | @P7C | | | Pointer to a copy of the HTTP headers which have not been unescaped |
| < wbra_method_ptr > (input) | | | | Pointer to the method specified on the HTTP request sent by the client. |
| < wbra_http_version_ptr > (input) | | | | Pointer to a string identifying the HTTP version supported by the client. |
| < wbra_http_resource_ptr > (input) | | | | Pointer to the CICS resource requested by the client. In HTTP terminology, this is the "absolute path" information in the HTTP request. Because CICS does not have any concept of "paths" or the hierarchical file systems on which paths rely, we have elected to use a term more appropriate to CICS in our documentation. |
| < wbra_request_header_ptr > (input) | | | | Pointer to the first HTTP header in the HTTP request. There are usually multiple HTTP headers for each HTTP request. Each header is delimited by a CR+LF. The end of the header information is delimited by a null header (that is, an additional CR+LF following final HTTP header). |
| < wbra_user_data_ptr > (input) | | | | Pointer to the user data section of the input data. For a non-HTTP request this will point to the start of the received data. |
| < wbra_method_length > (input) | | | | Length of the method specified on the HTTP request sent by the client. |
| < wbra_http_version_length > (input) | | | | Length of the string identifying the version of HTTP supported by the client. |
| < wbra_http_resource_length > (input) | | | | Length of the string containing the HTTP header information for this HTTP request. |
| < wbra_request_header_length > (input) | | | | Length of the string identifying the CICS resource requested by supported by the client. This length includes the lengths of all the delimiting CR+LFs for all the headers, including the final CR+LF of the null header which signals the end of the headers. |
| < wbra_user_data_length > (input output) | @01C | | | Length of the user data section of the input data. For a non-HTTP request this will be the length of the entire received block. |
| < wbra_request_type > (input) | | | | A value indicating whether the request to be analyzed is HTTP or non-HTTP. |
| < wbra_unescape > (output) | @L9A | | | A value indicating whether the user forms data is to be unescaped by CICS. |
| @01A | | | | |
| < wbra_content_length > (input) | @01A | | | Length of the user data section of the input data as specified in the <Content-Lenth> HTTP header. |
| @01A | | | | |
| @01A | | | | |
| - | | | | |
| The top level definition for dfhcommarea. | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|-------------|
| (0) | STRUCTURE | * | DFHCOMMAREA | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------|-------------|
| (0) | CHARACTER | * | COMM_PARMLIST | |

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| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------------|-------------|
| (0) | STRUCTURE | 116 | WBRA_PARMS | |
| (0) | CHARACTER | 8 | WBRA_EYECATCHER | Constant |
| (8) | UNSIGNED | 4 | WBRA_FUNCTION | Input |
| (C) | UNSIGNED | 4 | WBRA_RESPONSE | Output |
| (10) | UNSIGNED | 4 | WBRA_REASON | Output |
| (14) | CHARACTER | 8 | WBRA_SERVER_ PROGRAM | Output |
| (1C) | CHARACTER | 8 | WBRA_CONVERTER_ PROGRAM | Output |
| (24) | CHARACTER | 8 | WBRA_USERID | Output |
| (2C) | CHARACTER | 4 | WBRA_ALIAS_TRANID | Output |
| (30) | CHARACTER | 4 | WBRA_ALIAS_TERMID | Output |
| (34) | CHARACTER | 8 | WBRA_USER_TOKEN | Output |
| (3C) | CHARACTER | 8 | WBRA_DFHCNV_KEY | Output |
| (44) | UNSIGNED | 4 | WBRA_CLIENT_ IP_ADDRESS | Input |
| (48) | UNSIGNED | 4 | WBRA_SERVER_ IP_ADDRESS | Input |
| (4C) | ADDRESS | 4 | WBRA_RESOURCE_ ESCAPED_PTR | Input |
| (50) | ADDRESS | 4 | WBRA_METHOD_PTR | Input |
| (54) | ADDRESS | 4 | WBRA_HTTP_ VERSION_PTR | Input |
| (58) | ADDRESS | 4 | WBRA_RESOURCE_PTR | Input |
| (5C) | ADDRESS | 4 | WBRA_REQUEST_ HEADER_PTR | Input |
| (60) | ADDRESS | 4 | WBRA_USER_DATA_PTR | Input |
| (64) | HALFWORD | 2 | WBRA_METHOD_LENGTH | Input |
| (66) | HALFWORD | 2 | WBRA_HTTP_ VERSION_LENGTH | Input |
| (68) | HALFWORD | 2 | WBRA_RESOURCE_ LENGTH | Input |
| (6A) | HALFWORD | 2 | WBRA_REQUEST_ HEADER_LENGTH | Input |
| (6C) | HALFWORD | 2 | WBRA_USER_ DATA_LENGTH | Input |
| (6E) | UNSIGNED | 1 | WBRA_REQUEST_TYPE | In\|Output |
| (6F) | UNSIGNED | 1 | WBRA_UNESCAPE | Input |
| (70) | UNSIGNED | 4 | WBRA_CONTENT_LENGTH | Input |

WBTLCL Web interface template manager

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------|-------------|
| (0) | STRUCTURE | 56 | DFHWTBL_ARG | |
| (0) | UNSIGNED | 2 | WBTL_VERSION_NO | |
| (2) | HALFWORD | 2 | WBTL_FUNCTION | |
| (4) | HALFWORD | 2 | WBTL_RESPONSE | |
| (6) | HALFWORD | 2 | WBTL_REASON | |
| (8) | CHARACTER | 8 | WBTL_CONNECT_TOKEN | |
| (10) | CHARACTER | 8 | WBTL_TEMPLATE_NAME | |
| (18) | CHARACTER | 8 | WBTL_TEMPLATE_ | |
| | | | ABSTIME | |
| (20) | ADDRESS | 4 | WBTL_TEMPLATE_ | |
| | | | BUFFER_PTR | |
| (24) | FULLWORD | 4 | WBTL_TEMPLATE_ | |
| | | | BUFFER_LEN | |
| (28) | ADDRESS | 4 | WBTL_SYMBOL_LIST_PTR | |
| (2C) | FULLWORD | 4 | WBTL_SYMBOL_LIST_LEN | |
| (30) | ADDRESS | 4 | WBTL_HTML_BUFFER_PTR | |
| (34) | FULLWORD | 4 | WBTL_HTML_BUFFER_LEN | |
| (38) | CHARACTER | | * | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------------------|-------------|
| 2 | DECIMAL | 1 | WBTL_BUILD_HTML_PAGE | |
| 2 | DECIMAL | 2 | WBTL_START_HTML_PAGE | |
| 2 | DECIMAL | 3 | WBTL_ADD_ | |
| | | | HTML_SYMBOLS | |
| 2 | DECIMAL | 4 | WBTL_READ_ | |
| | | | HTML_TEMPLATE | |
| 2 | DECIMAL | 5 | WBTL_ADD_ | |
| | | | HTML_TEMPLATE | |
| 2 | DECIMAL | 6 | WBTL_END_HTML_PAGE | |

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-
The following is the value that should be specified in WBTL_VERSION_NO to show the level at which the calling module was compiled.

| | | | |
|---|---------|----|----------------------|
| 2 | DECIMAL | 0 | WBTL_CURRENT_VERSION |
| 2 | DECIMAL | 56 | WBTL_PARAMETER_LEN |

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The following are the possible responses from the DFHWTBL program.

| | | | |
|---|---------|----|----------------|
| 2 | DECIMAL | 0 | WBTL_OK |
| 2 | DECIMAL | 4 | WBTL_EXCEPTION |
| 2 | DECIMAL | 8 | WBTL_INVALID |
| 2 | DECIMAL | 12 | WBTL_DISASTER |

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The following are the possible responses from the DFHWTBL program, if the returned reason is not OK.

| | | | |
|---|---------|----|--------------------------|
| 2 | DECIMAL | 1 | WBTL_INVALID_FUNCTION |
| 2 | DECIMAL | 2 | WBTL_INVALID_TOKEN |
| 2 | DECIMAL | 3 | WBTL_INVALID_SYMBOL_LIST |
| 2 | DECIMAL | 4 | WBTL_INVALID_BUFFER_PTR |
| 2 | DECIMAL | 5 | WBTL_FEATURE_INACTIVE |
| 2 | DECIMAL | 6 | WBTL_TEMPLATE_NOT_FOUND |
| 2 | DECIMAL | 7 | WBTL_TEMPLATE_TRUNCATED |
| 2 | DECIMAL | 8 | WBTL_PAGE_TRUNCATED |
| 2 | DECIMAL | 9 | WBTL_GETMAIN_ERROR |
| 2 | DECIMAL | 10 | WBTL_FREEMAIN_ERROR |
| 2 | DECIMAL | 11 | WBTL_INVALID_VERSION |

WCG XRF global control block

CONTROL BLOCK NAME = DFHWCGPS
 DESCRIPTIVE NAME = CICS (XRF) Global Control Block
 FUNCTION =
 XRF surveillance/state management mechanism analogue of
 the CICS CSA. A single instance of this block is created
 at XRF SIGNON.
 LIFETIME =
 Created by XRF SIGNON and destroyed by SIGNOFF (NORMAL)
 STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 storage above 16M line.
 LOCATION =
 Located either via WCSGLBLA in the XRF Static storage
 (DFHWCGSPS) addressed by SSZXRF in the SSA, or via
 WXBGLBLA in the XRF process block in the case of
 code running as an XRF process.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 144 | DFHWCGPS | CAVM Global Control Block |
| (0) | CHARACTER | 8 | WCGIDENT | Eye Catcher XRF-GLBL |
| (8) | ADDRESS | 4 | WCGSTATA | CAVM Static Area address |
| (C) | ADDRESS | 4 | WCGCKDA | Pointer to TOD Clock Difference Data (BACKUP systems only) |
| (10) | ADDRESS | 4 | WCGNTA | Entry table for routines above 16M line. |
| (14) | ADDRESS | 4 | WCGXRFNT | Entry table for routines below 16M line (copy of CSAXRFNT in CSAOPFL). |
| (18) | ADDRESS | 4 | WCGDA | Process Management data |
| (1C) | ADDRESS | 4 | WCGFA | Status and State file data |
| (20) | ADDRESS | 4 | WCGMA | Message data |
| (24) | ADDRESS | 4 | WCGTRA | Trace control area |
| (28) | ADDRESS | 4 | WCGLFA | LIFO work area |
| (2C) | ADDRESS | 4 | WCGSA | Status control area |
| (30) | ADDRESS | 4 | WCGSXA | Surveillance exits control area |
| (34) | CHARACTER | 8 | WCGSAPPL | System's Specific APPLID |
| (3C) | CHARACTER | 84 | WCGCS | Common services area |
| (3C) | CHARACTER | 72 | WCGCSSVA | Common services save area |
| (84) | CHARACTER | 12 | WCGCSPRM | Common services parameter area. |
| (90) | CHARACTER | | WCGEND | |

Entry Table.
 This is the definition of the list of entry points to XRF
 modules located above the 16M line.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | 32 | WCGENTAB | |
| (0) | ADDRESS | 4 | WCGELGET | Entry to DFHWLGET |
| (4) | ADDRESS | 4 | WCGELFRE | DFHWLFRE |
| (8) | ADDRESS | 4 | WCGEDATT | DFHWDATT |
| (C) | ADDRESS | 4 | WCGEDWAT | DFHWDWAT |
| (10) | ADDRESS | 4 | WCGEMS20 | DFHWMS20 |
| (14) | ADDRESS | 4 | WCGETRP | DFHWTRP |
| (18) | ADDRESS | 4 | WCGEDISP | DFHWDISP |
| (1C) | ADDRESS | 4 | WCGECCS | DFHWCCS |

Common service Interface
 This defines the parameter area to be passed to the Common
 Services routine DFHWCCS.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | DFHWCIPS | XRF Common Services parameter block |
| (0) | FULLWORD | 4 | WCIPID | Request Identifier |
| (4) | ADDRESS | 4 | WCIPSA | Storage area address |
| (4) | ADDRESS | 4 | WCIPCEBA | Address of ECB |
| (4) | ADDRESS | 4 | WCIPMSGA | Address of message |
| (4) | ADDRESS | 4 | WCIPXPBA | Address of XPB |
| (8) | FULLWORD | 4 | WCIPSL | Storage area length |
| (8) | FULLWORD | 4 | WCIPCOMP | POST completion code |
| (8) | ADDRESS | 4 | WCIPSPA | Address of Save area |
| (8) | FULLWORD | 4 | WCIPABCD | ABEND code |
| (8) | BITSTRING | 1 | WCIPDOPT | Dump options |
| (9) | BITSTRING | 1 | WCIPSABC | System ABEND code |
| (A) | BITSTRING | 1 | WCIPUABC | User ABEND code |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | * | XRF Common Services parameter block |
| (0) | FULLWORD | 4 | * | Request Identifier |
| (4) | CHARACTER | 8 | WCIPCHAR | Character result |
| (4) | CHARACTER | 4 | WCIPHEX | Hex source |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|---|
| 4 | DECIMAL | 0 | WCIINTER | Internal error detected |
| 4 | DECIMAL | 1 | WCIGETM | MVS GETMAIN for subpool 0 storage above 16M line. |
| 4 | DECIMAL | 2 | WCIFREEM | MVS FREEMAIN |
| 4 | DECIMAL | 3 | WCIPPOST | MVS Hand POST |
| 4 | DECIMAL | 4 | WCIXCONV | Convert hex to character |
| 4 | DECIMAL | 5 | WCIBLDPX | Build XPB for CICS TCB |
| 4 | DECIMAL | 6 | WCIBLDPX | Build XPB for XRF TCB |
| 4 | DECIMAL | 7 | WCIMSGAB | Message/ABEND |

WCS XRF CAVM static control block

CONTROL BLOCK NAME = DFHWCSDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Static Control Block
 FUNCTION =
 The CAVM Static Control Block provides a common anchor to enable CAVM State Management and Message Management functions to be invoked from code running in a CICS environment. It resides below the 16M line and includes the few items of CAVM data referenced by AMODE 24 routines. Each XRF system contains a single CAVM Static Control Block.
 LIFETIME =
 The CAVM Static Control Block is created by DFHWSSN1 at the beginning of SIGNON and destroyed by DFHWSRTR at the end of SIGNOFF.
 STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 below 16M line.
 LOCATION =
 Fields SSAXRF in the CICS SSA (DFHSSADS) and WCGSTATA in the CAVM Global Control Block (DFHWCGBS) both contain a pointer to the CAVM Static Control Block.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|---|
| (0) | | | DFHWCSDS | CAVM Static Control Block |
| (0) | CHARACTER | 8 | WCSIDENT | Eye Catcher XRF-STAT |
| (8) | ADDRESS | 4 | WCSGLBLA | Pointer to CAVM Global Control Block |
| (C) | ADDRESS | 4 | WCXTCBP | Pointer to CAVM TCB |
| (10) | ADDRESS | 4 | WCSETECB | End of task ECB for CAVM TCB |
| (14) | BITSTRING | 1 | WCSSMRST | State Management record status |
|  | .... .... |  | WCSSSOFN | "0" Signed off normally or did not sign on (must be zero) |
| |1 | | WCSSSON | "1" Signed on |
| |1 | | WCSSSOFA | "2" Signed off abnormally |
| | 1... ..1 | | WCSSSNIP | "X'81" SIGNON in progress |
| | 1111 1111 | | WCSSSFIP | "X'FF" SIGNOFF in progress |
| (15) | BITSTRING | 1 | WCSCSAVM | CAVM Services available mask |
| | 1... | | WCSSMMAV | "X'80" State and message management services are available |
| | .1. | | WCSPUTAV | "X'40" Message management PUT is available |
| (16) | HALFWORD | 2 | WCSSOFML | Length of TAKEOVER message for ACTIVE job if it signs off during TAKEOVER |
| (18) | ADDRESS | 4 | WCSSOFMP | Pointer to TAKEOVER message for ACTIVE job |
| (1C) | ADDRESS | 4 | WCSTCECB | TAKEOVER response or SIGNON ECB |
| (20) | ADDRESS | 4 | WCSTXECB | TAKEOVER request ECB |
| (24) | ADDRESS | 4 | WCSTKVP | Pointer to TAKEOVER parameter area |
| (28) | HALFWORD | 2 | WCSRESP (0) | |
| (28) | SIGNED | 1 | | Response code for CAVM request |
| (29) | SIGNED | 1 | WCSREASC | Reason code for CAVM request |
| (2A) | BITSTRING | 1 | WCSTKRID | TAKEOVER request ID |
| (2B) | CHARACTER | 1 | WCSSOFCD | SIGNOFF code (normal or abnormal) |
| | 11.. ..1 | | WCSSRSOFA | "C'A" Request for SIGNOFF ABNORMAL |
| | 11.1 .1.1 | | WCSSRSOFN | "C'N" Request for SIGNOFF NORMAL |
| (2C) | ADDRESS | 4 | | Reserved |
| (30) | ADDRESS | 4 | WCSACSVC | Pointer to CSVC's SVC instruction in the CICS CSA |
| | ..11 .1.. | | WCSL | "-DFHWCSDS" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|--------------------------------------|
| (0) | | | WCSENTAB | Entry point table for code below 16M |
| (0) | ADDRESS | 4 | WCSEMS | Message management services EPA |
| (4) | ADDRESS | 4 | | Not used |
| (8) | ADDRESS | 4 | | Not used |

WDG XRF process block

CONTROL BLOCK NAME = DFHWDGSPS
 DESCRIPTIVE NAME = CICS (XRF) Process Block
 FUNCTION =
 XRF process dispatcher control area.
 There is a single instance of this control block in a CICS system which has successfully signed on to XRF. It contains state information for the XRF process dispatcher such as the currently dispatched process, head and tail of the chain of extant processes etc..

LIFETIME =
 Created by INIT_ATTACH (DFHWDINA) and destroyed when XRF TCB terminates.

STORAGE CLASS =
 Non-CICS storage. MVS subpool 0 storage above 16M line.

LOCATION =
 Address is in WCGDA in XRF Global area DFHWCGPS.

INNER CONTROL BLOCKS =
 WDGP
 Definition of internal dispatcher parameter block format.
 WDGLOCKH
 Lock hierarchy table (set up by DFHWDINA).

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 Fixed part of Dispatcher Global Area (in XRF Global area)

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 120 | DFHWDGSPS | Addressed from WS Global |
| (0) | CHARACTER | 64 | WDGEXTNL | This substructure contains data which are maintained across dispatcher calls |
| (0) | ADDRESS | 4 | WDGFXPB | First process in dispatch chain. |
| (4) | ADDRESS | 4 | WDGLXPB | Last process in dispatch chain. |
| (8) | ADDRESS | 4 | WDGCXPB | Currently dispatched process. |
| (C) | ADDRESS | 4 | WDGIAR13 | Save slot for Reg 13 of issuer of INIT_ATTACH |
| (10) | ADDRESS | 4 | WDGESTA | ESTAE PARAM area |
| (14) | ADDRESS | 4 | WDGESPA | ESPIE PARAM area |
| (18) | ADDRESS | 4 | * (2) | Reserved |
| (20) | BITSTRING | 4 | WDGGLKSM | Granted locks mask |
| (24) | HALFWORD | 2 | WDGXPBNO | Last allocated process id |
| (26) | HALFWORD | 2 | * | Reserved |
| (28) | CHARACTER | 24 | WDGXPB | Space for the base part of a dummy XPB used by the dispatcher for tracing |
| (40) | CHARACTER | 56 | WDGLOCAL | This substructure contains data which are local to a single dispatcher call |
| (40) | BITSTRING | 4 | WDGLKACC | Lock table work area used by DFHWDINA. |
| (40) | BITSTRING | 4 | WDGLKTMP | Lock temporary used by DFHWDWAT. |
| (44) | HALFWORD | 2 | * | Reserved |
| (46) | HALFWORD | 2 | WDGWLL | Number items in WAIT list |
| (46) | HALFWORD | 2 | WDGLKI | Lock level counter |
| (48) | ADDRESS | 4 | WDGWL (12) | WAIT List |
| (78) | CHARACTER | | WDGEND | End of fixed part of area |

Dispatcher internal parameter block.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 12 | WDGP | |
| (0) | FULLWORD | 4 | WDGPID | Request identifier |
| (4) | ADDRESS | 4 | WDGPEPRM | ESPIE/ESTAE parameter |
| (4) | ADDRESS | 4 | WDGPEDA | Error data - SDWA or EPIE |
| (8) | ADDRESS | 4 | WDGSPRPA | SRP Area address |
| (8) | ADDRESS | 4 | WDGPIDA | ATTACH initial data |
| (8) | ADDRESS | 4 | WDGPNPSW | New IA for retry PSW |

Constants

| Len | Type | Value | Name | Description |
|------------------------------|---------|----------|----------|---------------------|
| 4 | DECIMAL | 0 | WDGPSINT | Initialize DFHWDSRP |
| 4 | DECIMAL | 1 | WDGPSTRM | Terminate DFHWDSRP |
| 4 | DECIMAL | 2 | WDGPSESP | ESPIE |
| 4 | DECIMAL | 3 | WDGPSEST | ESTAE |
| Lock and event record values | | | | |
| 4 | HEX | 00000000 | WDGNOEVS | All events set OFF |
| 4 | HEX | FFFFFFFF | WDGALEVS | All events set ON |
| 4 | HEX | 00000000 | WDGNOLKS | All locks set OFF |
| 4 | HEX | FFFFFFFF | WDGALLKS | All locks set ON |

WDI XRF dispatcher interface

CONTROL BLOCK NAME = DFHWDSPS
 DESCRIPTIVE NAME = CICS (XRF) Dispatcher interface
 block definitions.

FUNCTION =
 Defines interface to XRF dispatcher for ATTACH and WAIT.
 Caller provides storage for an instance of the interface
 block and sets parameters as required.

LIFETIME =
 Duration of XRF dispatcher call.

STORAGE CLASS =
 Caller's choice. Usually above 16M line.

LOCATION =
 Passed to dispatcher as address in R1.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =
 None

CONTROL BLOCKS =
 None

GLOBAL VARIABLES (Macro pass) =
 None

ATTACH Request Parameter Block

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 28 | DFHWDIPS | Addressed from WS Global |
| (0) | ADDRESS | 4 | WDIGA | WS Global address (for INITIAL_ATTACH call only) |
| (4) | ADDRESS | 4 | WDIEPA | Process entry address |
| (8) | ADDRESS | 4 | WDIIDA | Initial data address |
| (C) | ADDRESS | 4 | WDIESPIE | ESPIE exit addr. |
| (10) | ADDRESS | 4 | WDIESPDA | ESPIE parameter. |
| (14) | ADDRESS | 4 | WDIESTAE | ESTAE exit addr. |
| (18) | ADDRESS | 4 | WDIESTDA | ESTAE parameter. |
| (1C) | CHARACTER | | WDIEND | |

WAIT Request Parameter Block

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 32 | DFHWDSPS | Addressed from WS Global |
| (0) | ADDRESS | 4 | WDSTYPE | Reserved - must be zero |
| (4) | ADDRESS | 4 | WDSEECBA | External event address |
| (8) | ADDRESS | 4 | WDSIECBA | Internal event address |
| (C) | BITSTRING | 4 | WDSWEVM | Awaited broadcast events |
| (10) | BITSTRING | 4 | WDSPEVM | Events to be broadcast |
| (14) | BITSTRING | 4 | WDSREVM | Broadcast events to reset for this process. |
| (18) | BITSTRING | 4 | WDSFLKM | Locks to be freed |
| (1C) | BITSTRING | 4 | WDSGLKM | Locks to be acquired |
| (20) | CHARACTER | | WDSSEND | |

Constants

| Len | Type | Value | Name | Description |
|--------------|---------|-------|-----------|---|
| 4 | DECIMAL | 1 | WDSBTICK | Timer cycle |
| 4 | DECIMAL | 2 | WDSBCHNG | Some change in partner status other than ones with specific events. |
| 4 | DECIMAL | 3 | WDSBSON | Partner has signed on |
| 4 | DECIMAL | 4 | WDSBSOF | Partner has signed off |
| 4 | DECIMAL | 5 | WDSBRV1 | No longer used - reserved |
| 4 | DECIMAL | 6 | WDSBPASA | BACKUP public status now available. |
| 4 | DECIMAL | 7 | WDSBFASA | Final ACTIVE public status now available (during TAKEOVER) |
| 4 | DECIMAL | 8 | WDSBPRST | Please read ACTIVE's latest status |
| 4 | DECIMAL | 9 | WDSBSSR | Start Status Reader processes |
| 4 | DECIMAL | 25 | WDSBPWC1 | Primary write complete - odd cycle. |
| 4 | DECIMAL | 26 | WDSBPWE1 | Primary write completed with error - odd cycle. |
| 4 | DECIMAL | 27 | WDSBPWC2 | Primary write complete - even cycle. |
| 4 | DECIMAL | 28 | WDSBPWE2 | Primary write completed with error - even cycle. |
| 4 | DECIMAL | 29 | WDSBSWC1 | Secondary write complete - odd cycle. |
| 4 | DECIMAL | 30 | WDSBSWE1 | Secondary write completed with error - odd cycle. |
| 4 | DECIMAL | 31 | WDSBSWC2 | Secondary write complete - even cycle. |
| 4 | DECIMAL | 32 | WDSBSWE2 | Secondary write completed with error - even cycle. |
| Lock numbers | | | | |
| 4 | DECIMAL | 1 | WDSL PSTW | Primary status write lock |
| 4 | DECIMAL | 2 | WDSL SSTW | Secondary status write lock |

WDL XRF LIFO workspace

CONTROL BLOCK NAME = DFHWLGPS
 DESCRIPTIVE NAME = CICS (XRF) LIFO Workspace
 FUNCTION =
 Workspace for XRF trace calls from LIFO and dispatcher services. Single instance.
 LIFETIME =
 Created by XRF INITIAL ATTACH (DFHWDINA) and destroyed by XRF SIGNOFF.
 STORAGE CLASS =
 Non-CICS storage above 16M line. Suballocated from XRF WS Global allocation created at XRF SIGNON.
 LOCATION =
 Addressed by WCGLFA in DFHWCGPS
 INNER CONTROL BLOCKS =
 WLGA Standards OS Register save area.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 DFHWTRPS. An instance of an XRF Trace parameter area is imbedded.
 GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 100 | DFHWLGPS | Addressed from WS Global |
| (0) | CHARACTER | 72 | WLGSAVE | Standard OS Save Area |
| (48) | CHARACTER | 28 | WLGTRACE | Space for trace parameter block. |
| (64) | CHARACTER | | WLGEND | |

Standard OS Save Area

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--------------------|
| (0) | STRUCTURE | 72 | WLGA | Standard Save Area |
| (0) | ADDRESS | 4 | * | |
| (4) | ADDRESS | 4 | WLGABCN | backward chain |
| (8) | ADDRESS | 4 | WLGSAFCN | forward chain |
| (C) | CHARACTER | 60 | WLGSAFREG | Registers 14-12 |
| (C) | ADDRESS | 4 | WLGSAF14 | R14 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|-------------|
| (10) | ADDRESS | 4 | WLGSAR15 | R15 |
| (14) | ADDRESS | 4 | WLGSAR00 | R0 |
| (18) | ADDRESS | 4 | WLGSAR01 | R1 |
| (1C) | ADDRESS | 4 | * (9) | R2 - R10 |
| (40) | ADDRESS | 4 | WLGSAR11 | R11 |
| (44) | ADDRESS | 4 | WLGSAR12 | R12 |

WFG XRF CAVM file control block

CONTROL BLOCK NAME = DFHWFGDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM File Control Block
 FUNCTION =
 The CAVM File Control Block contains data relating to the CAVM Control data set and Message data set such as ACB pointers, CI size, RBAs of certain records and a pointer to the RESERVE parameter list used to serialise accesses to the Control data set during SIGNON, SIGNOFF and TAKEOVER. Each XRF system contains a single CAVM File Control Block.
 LIFETIME =
 The CAVM File Control Block is created by DFHWSSN3 during CAVM SIGNON.
 STORAGE CLASS =
 Non-CICS storage. MVS subpool 0 above 16M line.
 LOCATION =
 Field WCGFA in the CAVM Global Control Block (DFHWCGDS) contains a pointer to the CAVM File Control Block.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | DFHWFGDS | CAVM File Control Block |
| (0) | ADDRESS | 4 | WFGPACB | Pointer to Message File ACB |
| (4) | ADDRESS | 4 | WFGSACB | Pointer to Control File ACB |
| (8) | FULLWORD | 4 | WFGCISIZ | Control interval size of both files |
| (C) | FULLWORD | 4 | WFGHARBA | High allocated RBA of Message File |
| (10) | FULLWORD | 4 | WFGHORBA | Lowest RBA available for use by Message Management in Message File |
| (14) | FULLWORD | 4 | WFGHURBA | High used RBA of Message File |
| (18) | FULLWORD | 4 | WFGRPLLN | Length of an RPL |
| (1C) | FULLWORD | 4 | WFGSMRBA | RBA of State Management Record in Control File |
| (20) | FULLWORD | 4 | WFGSRBA | RBA of ACTIVE's status CI in either file |
| (24) | ADDRESS | 4 | WFGRSVPP | Pointer to RESERVE parameter list |
| | ..1. 1... | | WFGL | "*-DFHWFGDS" |

WMG XRF message manager global area

CONTROL BLOCK NAME = DFHWMGPS
 DESCRIPTIVE NAME = CICS (XRF) Message manager global area
 FUNCTION =
 Anchor for all XRF message management control information.
 There is a single instance of this block.
 LIFETIME =
 Created by DFHWM1 when it is called as part of the XRF
 SIGNON process. It then remains for the life of the CICS
 system.
 STORAGE CLASS =
 Non-CICS storage. Usually above the 16M line.
 LOCATION =
 Addressed by WCGMA in XRF Global area.
 INNER CONTROL BLOCKS =
 WMGPUT Control area specific to PUTMSG processing.
 A single instance created by DFHWMP1 when called
 during SIGNON by DFHWM1, and addressed by WMGPUTA
 in DFHWMGPS. It contains, among other things, the
 PUTMSG work queue anchor for the queued request
 interface between XRF server and CICS user TCBs.
 WMGGET Control area specific to GETMSG processing.
 A single instance created by DFHWMG1 when called
 during SIGNON by DFHWM1, and addressed by WMGGETA
 in DFHWMGPS. It contains, among other things, the
 hash table which is contains anchors for chains
 of message queue anchor blocks (DFHWMMP5).
 WMGRQR Control area specific to PUTREQ/PUTRSP processing.
 A single instance created by DFHWMR1 when called
 during SIGNON by DFHWM1, and addressed by WMGRQRA
 in DFHWMGPS. It contains, among other things, the
 PUTREQ and PUTRSP anchors for the queued request
 between the XRF server and CICS user TCBs.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 Message Manager Global Area (in XRF Global area)
 Common area

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 40 | DFHWMGPS | Addressed from WS Global |
| (0) | CHARACTER | 40 | WMGCOMM | Common data |
| (0) | ADDRESS | 4 | WMGCFKB | Free 1K block chain |
| (4) | ADDRESS | 4 | WMGCFMQE | Free message queue element chain |
| (8) | BITSTRING | 1 | WMGCFLG1 | Flags |
| | | | 1... | Moving data |
| | | | .111 1111 | Reserved |
| (9) | CHARACTER | 3 | * | Reserved |
| (C) | ADDRESS | 4 | WMGPUTA | Address of PUTMSG area |
| (10) | ADDRESS | 4 | WMGGETA | Address of GETMSG area |
| (14) | ADDRESS | 4 | WMGRQRA | Address of RQR area |
| (18) | ADDRESS | 4 | WMGPMECB | PUTMSG Start ECB |
| (1C) | ADDRESS | 4 | WMGCWAIT | Work element waiting for MQS to post it. |
| (20) | ADDRESS | 4 | WMGCPOST | Work element MQS is about to post. |
| (24) | FULLWORD | 4 | WMGCINST | Current ACTIVE message source instance number. |
| (28) | CHARACTER | | * | |

PUTMSG area

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | STRUCTURE | 40 | WMGPUT | PUTMSG data |
| (0) | CHARACTER | 16 | WMGPUTQ | PUTMSG request queue anchor area. |
| (10) | ADDRESS | 4 | WMGPMTA | Message transmission state data. |
| (14) | CHARACTER | 12 | WMGPID | Initial parameters for PUTMSG process |
| (20) | ADDRESS | 4 | * (2) | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (28) | CHARACTER | | WMGPEND | End of fixed part |
| (0) | STRUCTURE | 4 | WMGPB (*) | Alternate specific data for PUT process. |
| (0) | UNSIGNED | 4 | WMGPCLCK | Start time for rejection of non-crucial messages. |

GETMSG area

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 52 | WMGGET | GETMSG data |
| (0) | ADDRESS | 4 | WMGGMTA | Message transmission state data. |
| (4) | ADDRESS | 4 | * | Reserved |
| (8) | BITSTRING | 1 | * | Flags |
| | 1... .. | | WMGGFASA | Final ACTIVE status seen |
| | .111 1111 | | * | Reserved |
| (9) | UNSIGNED | 1 | * | Reserved |
| (A) | CHARACTER | 2 | WMGGRESP | Response data - like WMSRESP. |
| (C) | CHARACTER | 12 | WMGGID | Initial parameters for GETMSG process |
| (18) | ADDRESS | 4 | WMGGHA | Address of hash table |
| (1C) | FULLWORD | 4 | WMGGINDX | BACKUP index number |
| (20) | FULLWORD | 4 | WMGGINST | BACKUP instance number |
| (24) | ADDRESS | 4 | WMGGWAIT | Queue anchor waiting for MQH to post it. |
| (28) | ADDRESS | 4 | WMGGPOST | Queue anchor MQH is about to post. |
| (2C) | ADDRESS | 4 | * | Reserved |
| (30) | ADDRESS | 4 | * | Reserved |

Hash table for message queue anchor chains.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------------|
| (0) | STRUCTURE | 8 | WMGGH | |
| (0) | FULLWORD | 4 | WMGGHTNM | Number of entries in hash table. |
| (4) | ADDRESS | 4 | WMGGHT (1) | Hash table entry array |
| | 1... .. | | WMGGHTCL | 'Closed' indicator |

PUTREQ, PUTRSP area

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | * | WMGRQR | PUTREQ, PUTRSP data |
| (0) | CHARACTER | 16 | WMGREQQ | PUTREQ request queue anchor area. |
| (10) | CHARACTER | 16 | WMGRSPQ | PUTRSP request queue anchor area. |
| (20) | HALFWORD | 2 | WMGRMINC | Minimum source channel - 0 for BACKUP, 1 for ACTIVE |
| (22) | HALFWORD | 2 | WMGRMAXC | Maximum source channel - 0 for BACKUP, WSAGBN for ACTIVE. |
| (24) | CHARACTER | 12 | WMGRID (3) | Initial parameters for PUTREQ, PUTRSP and RECEIVE |
| (48) | CHARACTER | 8 | WMGRIVN | Target of last PUTREQ |
| (48) | FULLWORD | 4 | WMGRINST | Instance number |
| (4C) | FULLWORD | 4 | WMGRVERN | Version Number |
| (50) | CHARACTER | | WMGREND | |
| (50) | CHARACTER | 4 | WMGRQA (*) | Channel status array |
| (0) | STRUCTURE | 4 | WMGRQ | Status of channel with individual partner |
| (0) | UNSIGNED | 1 | WMGRQIST | Inbound State |
| (1) | UNSIGNED | 1 | WMGRQOST | Outbound State |
| (2) | HALFWORD | 2 | * | Reserved |

Request Queue Anchor Block

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | WMGQANCH | Addressed from message manager global area. |
| (0) | ADDRESS | 4 | WMGQFRST | Address of first (newest) entry in request chain. |
| | 1... .. | | WMGQCLSD | Service is closed |
| (4) | ADDRESS | 4 | WMGQLAST | Address of last (oldest) entry in request chain. |
| (4) | CHARACTER | 2 | * | |
| (6) | CHARACTER | 2 | WMGQRESP | Termination response like WMSRESP. |
| (8) | ADDRESS | 4 | WMGQECB | MVS ECB posted by issuer of request. |
| (C) | ADDRESS | 4 | WMGQSEL | Address of latest entry selected for processing |

Constants

| Len | Type | Value | Name | Description |
|---|---------|----------|----------|----------------------------------|
| 2 | DECIMAL | 1 | WMGGHTN | Number of entries in hash table. |
| Constants for WMGRQIST/WMGRQOST | | | | |
| 1 | DECIMAL | 0 | WMGRQNTR | No traffic |
| 1 | DECIMAL | 1 | WMGRQRSP | Response pending |
| Constants for setting WMGQCLSD and WMGGHTCL | | | | |
| 4 | HEX | 80000000 | WMGQCLON | |
| 4 | HEX | 7FFFFFFF | WMGQCLOF | |

WMI XRF internal interface block

CONTROL BLOCK NAME = DFHWMIPS
 DESCRIPTIVE NAME = CICS (XRF) Internal interface block
 FUNCTION =
 Defines a three word parameter block which is used throughout XRF message management as the interface between the various modules of which it is composed. The block has many different overlays depending on the function being invoked. However, excepting the special case of the call from DFHWMIS, the first word, WMIPID, always a function code. The function code values are named WMIxxyy where xx is the module supporting the function (DFHWMxx) and yyy is the specific function requested.

LIFETIME =
 Created by caller of a routine and lasts for duration of call.

STORAGE CLASS =
 User choice. Usually in storage above the 16M line.

LOCATION =
 Conventionally addressed by R1 when passed to callee.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =
 None

CONTROL BLOCKS =
 None

GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------------------|
| (0) | STRUCTURE | 12 | DFHWMIPS | XRF Message manager parameter block |
| (0) | FULLWORD | 4 | WMIPID | Request Identifier |
| (0) | CHARACTER | 2 | * | |
| (2) | CHARACTER | 2 | WMIPRESP | Response (like WMSRESP) |
| (4) | ADDRESS | 4 | WMIPWQE | Work queue element addr |
| (4) | ADDRESS | 4 | WMIPRB | User Request block addr |
| (4) | ADDRESS | 4 | WMIPCCA | CI Control area address |
| (4) | CHARACTER | 2 | * | |
| (6) | CHARACTER | 2 | WMIPTRSP | Termination response |
| (8) | ADDRESS | 4 | WMIPQA | Work queue anchor addr |
| (8) | ADDRESS | 4 | WMIPTGT | Target for message copy |
| (8) | FULLWORD | 4 | WMIPOPTC | RPL type (PUT or GET) |
| (8) | CHARACTER | 4 | WMIPQNAM | Message queue name |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------|
| (8) | CHARACTER | 2 | * | |
| (A) | CHARACTER | 2 | WMIPCRSP | Completion response |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------------------|
| (0) | STRUCTURE | 12 | * | Parameter block |
| (0) | FULLWORD | 4 | * | Request Identifier |
| (4) | ADDRESS | 4 | WMIPEPA | EPIE/SDWA |
| (8) | ADDRESS | 4 | WMIPIDA | Initial data of process |
| (8) | ADDRESS | 4 | WMIPNPSW | New PSW for ESPIE return |

Constants

| Len | Type | Value | Name | Description |
|-------------------------|---------|-------|----------|---|
| 4 | DECIMAL | 0 | WMIG1INT | Initialize |
| 4 | DECIMAL | 1 | WMIG1GET | GETMSG process |
| 4 | DECIMAL | 2 | WMIG1EST | ESTAE exit |
| Request IDs for DFHWMMT | | | | |
| 4 | DECIMAL | 1 | WMIMTBLD | Build CI areas |
| 4 | DECIMAL | 2 | WMIMTPUT | Issue VSAM PUT |
| 4 | DECIMAL | 3 | WMIMTGET | Issue VSAM GET |
| 4 | DECIMAL | 4 | WMIMTFMT | Format message dataset |
| Request IDs for DFHWMPG | | | | |
| 4 | DECIMAL | 1 | WMIPGWRT | Copy data to target |
| 4 | DECIMAL | 2 | WMIPGESP | Program check has occurred |
| Request IDs for DFHWMP1 | | | | |
| 4 | DECIMAL | 0 | WMIP1INT | Initialize |
| 4 | DECIMAL | 1 | WMIP1PUT | PUTMSG process |
| 4 | DECIMAL | 2 | WMIP1EST | ESTAE exit |
| 4 | DECIMAL | 3 | WMIP1ESP | ESPIE exit |
| Request IDs for DFHWMQH | | | | |
| 4 | DECIMAL | 0 | WMIQHINT | Initialize |
| 4 | DECIMAL | 1 | WMIQHENQ | Place message on queue |
| 4 | DECIMAL | 2 | WMIQHLOC | Locate/Create queue anchor |
| 4 | DECIMAL | 3 | WMIQHTRM | Terminate |
| Request IDs for DFHWMQS | | | | |
| 4 | DECIMAL | 1 | WMIQSGN | Get next queue element |
| 4 | DECIMAL | 2 | WMIQSCMP | Complete request |
| 4 | DECIMAL | 3 | WMIQSCMB | Complete batch of requests |
| 4 | DECIMAL | 4 | WMIQSTRM | Close down queue and post any remaining requests. |
| Request IDs for DFHWMRD | | | | |
| 4 | DECIMAL | 0 | WMIRDINT | Initialize |
| 4 | DECIMAL | 1 | WMIRDGET | Read message |
| Request IDs for DFHWMR1 | | | | |
| 4 | DECIMAL | 0 | WMIR1INT | Initialize |
| 4 | DECIMAL | 1 | WMIR1REQ | PUTREQ process |
| 4 | DECIMAL | 2 | WMIR1RSP | PUTRSP process |
| 4 | DECIMAL | 3 | WMIR1RCV | RECEIVE process |
| 4 | DECIMAL | 4 | WMIR1ESP | ESPIE exit |
| 4 | DECIMAL | 5 | WMIR1EST | ESTAE exit |
| Request IDs for DFHWMRW | | | | |
| 4 | DECIMAL | 0 | WMIWRINT | Initialize |
| 4 | DECIMAL | 1 | WMIWRPUT | Write message |
| 4 | DECIMAL | 2 | WMIWRHDN | Harden messages |

WMM XRF message queue anchor block

CONTROL BLOCK NAME = DFHWMMPMS
 DESCRIPTIVE NAME = CICS (XRF) Message queue anchor block
 FUNCTION =
 Anchor for chain of in core message elements built by the XRF GETMSG process.
 An instance of this block is created for each distinct message queue name for which either the reader process retrieves messages from the message dataset, or for which GETMSG requests are issued by the CICS TCB.
 Each such block serves as an anchor for the chain of messages yet to be read, and contains the ECB on which a CICS transaction will wait if it issues a GETMSG for a queue with no messages pending.

LIFETIME =
 Created by either the XRF message reader process under the XRF TCB, or by GETMSG under the CICS TCB, at the first appearance of a message queue name.
 Destroyed when the BACKUP either signs off, or takes over. This is done only under the CICS TCB at a time when it is known that no other CICS transactions have references to the block or anything depending on it.

STORAGE CLASS =
 Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.

LOCATION =
 The anchor blocks are formed into hash chains using WMMAHASH as chain field and WMGGHT (in DFHWMGPS) as hash table.

INNER CONTROL BLOCKS =
 WMME is the message queue element description. These blocks form chains from the message anchor blocks and contain the individual messages waiting to be read. They are created by the reader process when it reads a message, and destroyed by GETMSG when the message has been delivered.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 Message Manager Message Queue Anchor Block

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 24 | DFHWMMPMS | |
| (0) | ADDRESS | 4 | WMMANEXT | Address of next anchor block (first in chain is addressed from hash table in GETMSG global area). |
| (4) | CHARACTER | 4 | WMMAQNAM | Queue name. |
| (8) | ADDRESS | 4 | WMMAFRST | First element in message chain for this queue. |
| (C) | ADDRESS | 4 | WMMALAST | Last element in message chain for this queue. |
| (10) | HALFWORD | 2 | WMMAHASH | Hash table index |
| (12) | BITSTRING | 2 | * | |
| | 1... | | WMMAEOD | Flag set by reader process if EOD/SIGNOFF or an error occurs. |
| (12) | BITSTRING | 1 | * | Reserved |
| (14) | ADDRESS | 4 | WMMAECEB | ECB posted at 'End-of-data or whenever this queue becomes non-empty. |
| | 1... | | * | |
| | .1.. | | WMMAPOST | POST bit in ECB |
| (14) | BITSTRING | 3 | * | |
| (18) | CHARACTER | | WMMAEND | |

Message Queue Element

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 8 | WMME | |
| (0) | CHARACTER | 8 | WMMECTL | Control part of element |
| (0) | ADDRESS | 4 | WMMEOLDR | Next older element |
| (4) | ADDRESS | 4 | WMMESEWR | Next newer element |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (8) | CHARACTER | | WMMEDATA | Start of message data. This contains a copy of whole of the record read from the message dataset. See DFHWMRPS for format. |

WMQ XRF message request queue

| |
|--|
| CONTROL BLOCK NAME = DFHWMQPS |
| DESCRIPTIVE NAME = CICS (XRF) Message request queue work element. |
| FUNCTION = Represents an XRF message manager request - PUTMSG, PUTREQ, or PUTRSP. |
| LIFETIME = Created by DFHWMQP in response to a message manager PUT request when the queue of free work elements (WMGCFMQE) is empty. Never destroyed. |
| STORAGE CLASS = Non-CICS storage, in MVS subpool 0 above 16M line, plus an 8 byte allocation in the CICS SHARED subpool for an ECB (KCP can handle only ECBs below the 16M line). |
| LOCATION = Chained from one of the message manager request service queue anchors (WMGPUTQ, WMGREQQ, WMGRSPQ) or from the free element head WMGCFMQE. |
| INNER CONTROL BLOCKS = None |
| NOTES : |
| DEPENDENCIES = S/370 |
| RESTRICTIONS = None |
| MODULE TYPE = Control block definition |
| EXTERNAL REFERENCES = |
| DATA AREAS = None |
| CONTROL BLOCKS = None |
| GLOBAL VARIABLES (Macro pass) = None |
| Message Manager Request Queue Element. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 48 | DFHWMQPS | |
| (0) | CHARACTER | 24 | WMQECTL | Control part of element |
| (0) | ADDRESS | 4 | WMQEOLDR | Next older element |
| (4) | ADDRESS | 4 | WMQENEWR | Next newer element |
| (8) | ADDRESS | 4 | * | Reserved |
| (C) | ADDRESS | 4 | WMQECAA | Queue anchor address |
| (10) | ADDRESS | 4 | WMQEECB | ECB on which requesting CICS Xaction will wait. |
| | 1... .. | | * | |
| | .1.. .. | | WMQEPOST | POST bit in ECB |
| (10) | BITSTRING | 3 | * | |
| (14) | BITSTRING | 4 | WMQECSWD | This field is subject of a CS instruction and is described by WMQECS. |
| (18) | CHARACTER | 24 | WMQEPARM | Copy of request parameter block. |
| (30) | CHARACTER | | WMQEEND | |

Overlay for word containing 'cancelled' and 'about to post' flags (WMQECSWD).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 6 | WMQECS | |
| (0) | BITSTRING | 2 | WMQEFLGS | This field is subject of a CS instruction. |
| | 1... .. | | WMQEFATP | About-to-post |
| | .1.. .. | | WMQEFCAN | Request cancelled |
| (2) | BITSTRING | 1 | * | Reserved |
| (3) | BITSTRING | 2 | * | Reserved |

Block chain. Chain of free 4K blocks used by DFHWMS10 as XPBs.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 4 | WMQB | |
| (0) | ADDRESS | 4 | WMQBNEXT | Address of next free block |

WMR XRF message record

CONTROL BLOCK NAME = DFHWMRPS
 DESCRIPTIVE NAME = CICS (XRF) Message Record
 FUNCTION =
 Defines the format of an XRF Message Management message record.
 Message records do not exist as independent control blocks in their own right. The definition here is of the message record component of other structures. Such components exist as records within the XRF status VSAM dataset, as the data part of in-core message blocks (WMME) created by the XRF reader process, and as the message part of the report data in a status CI (WSAR).
 Message records contain the data which are transmitted between ACTIVE and BACKUP systems by means of the PUTMSG, GETMSG, PUTREQ and PUTRSP message manager requests.

LIFETIME =
 Same as containing structure.

STORAGE CLASS =
 Same as containing structure.

LOCATION =
 Same as containing structure.

INNER CONTROL BLOCKS =
 WMRCR Format of control record which is the first in each message dataset CI.
 WMRCIDF Defines the format of a VSAM CIDF
 WMRRDF Defines the format of a VSAM RDF

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None

CONTROL BLOCKS =
 None

GLOBAL VARIABLES (Macro pass) =
 None

Message Data Record

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | DFHWMRPS | |
| (0) | UNSIGNED | 1 | WMRTYPE | Record type |
| (1) | BITSTRING | 1 | WMRRFLGS | Reserved |
| (2) | HALFWORD | 2 | WMRDATLN | Message data length i.e. number of bytes in record following WMREND |
| (4) | FULLWORD | 4 | WMRSEQNO | Message sequence number |
| (8) | CHARACTER | 8 | WMRIVN | Instance and version/queue |
| (8) | FULLWORD | 4 | WMRINSTN | Applicable instance number |
| (C) | FULLWORD | 4 | WMRVERSN | Version number |
| (C) | CHARACTER | 4 | WMRQNAME | Queue name |
| (10) | CHARACTER | | WMREND | Start of message data |

Message Control Record

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 8 | WMRCR | |
| (0) | BITSTRING | 1 | * | Record type - WMRTCNO |
| (1) | CHARACTER | 3 | * | Reserved |
| (4) | FULLWORD | 4 | WMRCRCNO | Message cycle number |
| (8) | CHARACTER | | WMRCREND | |

VSAM CIDF Format

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 4 | WMRCIDF | |
| (0) | HALFWORD | 2 | WMRCIDFO | Offset of start of unused space in this CI. |
| (2) | HALFWORD | 2 | WMRCIDFL | Length of unused space in this CI. |

VSAM RDF Format

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 3 | WMRRDF | Cancel data passed to KCP at WAIT. |
| (0) | BITSTRING | 1 | WMRRDFF | Flags - always zero in the subset used by XRF message manager. |
| (1) | HALFWORD | 2 | WMRRDFL | Length of record which corresponds to this RDF. |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|----------------|
| 1 | DECIMAL | 0 | WMRTDATA | Message record |
| 1 | DECIMAL | 1 | WMRTCNO | Control record |

WMS XRF message manager request

CONTROL BLOCK NAME = DFHWMSPS
 DESCRIPTIVE NAME = CICS (XRF) Message manager request interface block.

FUNCTION =
 Defines the format of the parameter block passed by the user of XRF message services.
 Since the user's parameter block is usually copied into a work queue element the definition of such an element, DFHWMQPS, includes an area to which this definition applies.

LIFETIME =
 Created by caller of message services and lasts for the duration of the processing of the request.

STORAGE CLASS =
 User choice.

LOCATION =
 Usually in caller's LIFO.

INNER CONTROL BLOCKS =
 None

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 None

CONTROL BLOCKS =
 None

GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 24 | DFHWMSPS | XRF Message manager parameter block |
| (0) | FULLWORD | 4 | WMSREQID | Request Identifier |
| (4) | BITSTRING | 1 | WMSRQFL1 | Request flag byte 1 |
| | 1... .. | | WMSCRUCL | CRUCIAL Message (PUTMSG) |
| | .111 1111 | | * | Reserved |
| (5) | BITSTRING | 1 | WMSRQFL2 | Request flag byte 2 |
| | 1... .. | | WMSFORCE | Harden message before returning (PUTMSG) |
| | .111 1111 | | * | Reserved |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (6) | CHARACTER | 2 | WMSRC | Response field |
| (8) | ADDRESS | 4 | WMSDATAD | Data area address |
| (C) | HALFWORD | 2 | WMSDATSZ | Size of data area |
| (E) | HALFWORD | 2 | WMSDATLN | Data length |
| (10) | CHARACTER | 8 | WMSIVN | Instance and version/queue |
| (10) | FULLWORD | 4 | WMSINSTN | Instance number |
| (14) | FULLWORD | 4 | WMSVERSN | Version no (PUTREQ,PUTRSP) |
| (14) | CHARACTER | 4 | WMSQNAME | Queue name (GETMSG,PUTMSG) |
| (18) | CHARACTER | | WMSSEND | |

Response field

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | 2 | WMSRESP | Response |
| (0) | UNSIGNED | 1 | WMSRETC | Return code |
| (1) | UNSIGNED | 1 | WMSREASN | Reason code |

Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|---|
| 4 | DECIMAL | 1 | WMSPMSG | PUTMSG |
| 4 | DECIMAL | 2 | WMSGMSG | GETMSG |
| 4 | DECIMAL | 3 | WMSPREQ | PUTREQ |
| 4 | DECIMAL | 4 | WMSPRSP | PUTRSP |
| Return Codes (WMSRETC) definitions | | | | |
| 1 | DECIMAL | 0 | WMSNORML | Normal |
| 1 | DECIMAL | 4 | WMSEXCPN | Exception |
| 1 | DECIMAL | 8 | WMSFAIL | Failed |
| Reason Codes (WMSREASN) definitions If WMSRETC = WMSEXCP | | | | |
| 1 | DECIMAL | 1 | WMSNOXRF | XRF not active |
| 1 | DECIMAL | 2 | WMSEOD | End of data. We are about to take over. The active will send no more records. |
| 1 | DECIMAL | 3 | WMSGNOF | Backup has SIGNED OFF from XRF. No more records will be presented. |
| If WMSRETC = WMSFAIL | | | | |
| 1 | DECIMAL | 1 | WMSINVRC | Invalid request code |
| 1 | DECIMAL | 2 | WMSCLOSD | Service closed |
| 1 | DECIMAL | 3 | WMSCANCL | Task cancelled |
| 1 | DECIMAL | 4 | WMSDLERR | Data length error. Either too large or -ve. |
| 1 | DECIMAL | 5 | WMSOVLAP | ACTIVE reject non-crucial message rather than risk damaging a BACKUP. BACKUP lapped by ACTIVE message writer. |
| 1 | DECIMAL | 6 | WMSNODST | No SIGNED-ON destination exists for this message |
| 1 | DECIMAL | 7 | WMSBUSY | Message queue busy |
| 1 | DECIMAL | 8 | WMSCHECK | Program check while copying message data. |
| 1 | DECIMAL | 9 | WMSABEND | XRF TCB Abend |
| 1 | DECIMAL | 10 | WMSIOER | Message dataset I/O error |
| 1 | DECIMAL | 11 | WMSFMTER | Message dataset format error. |
| 1 | DECIMAL | 12 | WMSSEQER | Message dataset sequence number error. |
| 1 | DECIMAL | 13 | WMSNACTV | System not ACTIVE yet |

WMT XRF message manager message

CONTROL BLOCK NAME = DFHWMTPS
 DESCRIPTIVE NAME = CICS (XRF) Message manager message
 transmission control.

FUNCTION =
 Contains an RPL for issuing VSAM requests against a particular CI buffer, and data representing the state of that buffer.
 XRF message management builds these blocks to control the reading and writing of CIs in the message dataset. Each instance represents a single buffer. At present, with single buffering, only a single instance each exists for the PUTMSG and GETMSG processes.

LIFETIME =
 Created by DFHWMT when called during the initialization of the GETMSG or PUTMSG process. Lasts for the lifetime of the process.

STORAGE CLASS =
 Non-CICS storage. MVS GETMAIN above 16M line.

LOCATION =
 Addressed by WMTPCCCA or WMTGCCA.

INNER CONTROL BLOCKS =
 WMTPUTMSG transmission control area. Addressed by WMGPMTA. Contains data controlling the position reached in writing to the message dataset.
 WMTGETMSG transmission control area. Addressed by WMGGMTA. Contains data controlling the position reached in reading the message dataset.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 CI Control Area

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|--|
| Hex | | | | |
| (0) | STRUCTURE | 168 | DFHWMTPS | |
| (0) | ADDRESS | 4 | * | Reserved for chain ptr |
| (4) | BITSTRING | 1 | WMT CFLGS | Flags |
| | 1... .. | | WMT CFCHG | CI has been changed |
| | .1. | | WMT CFSAF | CI can be written without impacting any backup. |
| | .1. | | WMT CFUWM | CI contains unwritten complete messages. |
| (5) | CHARACTER | 3 | WMT CFDBK | VSAM feedback data copied from RPL. |
| (5) | UNSIGNED | 1 | WMT CRTNC | VSAM return code |
| (6) | UNSIGNED | 1 | * | VSAM component code |
| (7) | UNSIGNED | 1 | WMT CRSNC | VSAM reason code |
| (8) | ADDRESS | 4 | WMT CBUFA | Address of CI buffer |
| (C) | ADDRESS | 4 | WMT CIDFA | Address of CIDF in buffer |
| (10) | ADDRESS | 4 | WMT CECEB | ECB for VSAM to post |
| (14) | UNSIGNED | 4 | WMT CRBA | RBA argument for VSAM requests. |
| (18) | ADDRESS | 4 | WMT CWQEF | Address of queue element of most recent record in CI which specified FORCE |
| (18) | ADDRESS | 4 | WMT CRDFA | Address of last used RDF |
| (1C) | HALFWORD | 2 | WMT COFF | Offset of end of last complete message record in CI - 0 if none. |
| (1E) | HALFWORD | 2 | WMT CICL | Length of CI control area |
| (20) | FULLWORD | 4 | WMT CCNO | Cycle to which CI belongs |
| (24) | CHARACTER | 128 | WMT CMSGA | VSAM request message area |
| (A8) | CHARACTER | | WMT CRPL | End of fixed part. Start of associated RPL. |

PUTMSG Transmission control data

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|---|
| Hex | | | | |
| (0) | STRUCTURE | 24 | WMT P | |
| (0) | CHARACTER | 8 | WMT PAWC | Active write cursor of end of latest complete message |
| (0) | FULLWORD | 4 | WMT PWCNO | Active write cycle number |
| (4) | UNSIGNED | 4 | WMT PWRBA | Active write RBA |
| (8) | FULLWORD | 4 | WMT PSEQN | Message sequence number |
| (C) | ADDRESS | 4 | WMT PCCA | Current CI control area |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (10) | FULLWORD | 4 | WMTGCCNO | Current write cycle number |
| (14) | BITSTRING | 2 | WMTGFLGS | |
| | 1... .. | | WMTGFMDS | Moving user data |
| | .1.. .. | | WMTGFMDS | 'Multiple discard' - the previous non-crucial msg was also discarded. |
| (14) | BITSTRING | 1 | * | Reserved |
| (16) | HALFWORD | 2 | WMTGMAXL | Maximum record length |
| (18) | CHARACTER | | WMTGPEND | |

GETMSG Transmission control data

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 28 | WMTG | |
| (0) | CHARACTER | 8 | WMTGBRC | Backup read cursor |
| (0) | FULLWORD | 4 | WMTGRCNO | Backup read cycle number |
| (4) | UNSIGNED | 4 | WMTGRRBA | Backup read RBA |
| (8) | CHARACTER | 8 | WMTGAWC | Active write cursor when current CI was read. |
| (8) | FULLWORD | 4 | WMTGWCNO | Active write cycle number |
| (C) | UNSIGNED | 4 | WMTGWRBA | Active write RBA |
| (10) | FULLWORD | 4 | WMTGSEQN | Message sequence number |
| (14) | ADDRESS | 4 | WMTGCCCA | Current CI control area |
| (18) | BITSTRING | 2 | WMTGFLGS | |
| | 1... .. | | WMTGFMDS | Moving user data |
| | .1.. .. | | WMTGFFMR | First message received |
| (18) | BITSTRING | 1 | * | Reserved |
| (1A) | HALFWORD | 2 | * | Reserved |
| (1C) | CHARACTER | | WMTGEND | |

WNF XRF CAVM notify exit

CONTROL BLOCK NAME = DFHWNFPS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM NOTIFY Exit
 Parameter Block

FUNCTION =
 CAVM uses the NOTIFY Exit Parameter Block to describe an event it has detected which needs to be brought to the attention of the user of CAVM.

LIFETIME =
 The duration of the call to the NOTIFY exit.

STORAGE CLASS =
 Non-CICS storage. Usually in the automatic storage (managed by the CAVM LIFO mechanism) of the NOTIFY exit's caller.

LOCATION =
 On entry to the NOTIFY exit, R1 contains the address of its parameter block.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 24 | DFHWNFPS | |
| (0) | FULLWORD | 4 | WNFRSV1 | Reserved - must be zero |
| (4) | UNSIGNED | 1 | WNFEVENT | Event code |
| (5) | BITSTRING | 1 | WNFEVNTM | Event modifier bits |
| | 1... .. | | WNFMDCEC | Event was in different CEC |
| | .1.. .. | | WNFMICPA | Event refers to an incipient ACTIVE |
| | ..1. | | WNFMSYSD | If on, event refers to a sign-off due to MVS failure |
| | ...1 1111 | | * | Reserved |
| (6) | BITSTRING | 1 | WNFXBITS | Existence bits for other fields |
| | 1... .. | | WNFIX | Index exists |
| | .1.. .. | | WNFD1X | DATA1 exists |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| ..1. | | | WNFD2X | DATA2 exists |
| ...1 | | | WNFDAX | Additional DATA exists |
| 1111 | | | * | Reserved |
| (7) | UNSIGNED | 1 | WNFINDEX | Index identifying BACKUP slot - zero for ACTIVE |
| (8) | FULLWORD | 4 | WNFDATA1 | First data word |
| (8) | FULLWORD | 4 | WNFINST# | Instance no. for signon, signoff etc |
| (8) | FULLWORD | 4 | WNFHBLAT | No. of seconds 'heart-beat' is late |
| (8) | FULLWORD | 4 | WNFABCC | ABEND code (WNFEFAIL) |
| (C) | FULLWORD | 4 | WNFDATA2 | Second data word |
| (C) | FULLWORD | 4 | WNFVERN# | Version no. for signon, signoff etc |
| (C) | CHARACTER | 4 | WNFQNAME | New queue name (WNFENEWQ) |
| (10) | ADDRESS | 4 | WNFDATAA | Address of additional data |
| (14) | FULLWORD | 4 | WNFDATAL | Length of additional data |
| (18) | CHARACTER | | WNFEND | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|---|
| 1 | DECIMAL | 1 | WNFESON | Signon |
| 1 | DECIMAL | 2 | WNFESOFN | Signoff normal |
| 1 | DECIMAL | 3 | WNFESOFA | Signoff abnormal |
| 1 | DECIMAL | 7 | WNFECKDC | The TOD clock difference has changed |
| 1 | DECIMAL | 8 | WNFEIHRC | The 'Inquire Health' response has changed |
| 1 | DECIMAL | 9 | WNFEHBOD | Heart-beat is overdue |
| 1 | DECIMAL | 10 | WNFEHBR | Heart-beat has restarted |
| 1 | DECIMAL | 15 | WNFERQTK | This system wants to take over from you. |
| 1 | DECIMAL | 16 | WNFEICPA | You are now the incipient active but your TOD clock might be behind |
| 1 | DECIMAL | 17 | WNFECKAS | Your TOD clock is now ahead of active's at signoff |
| 1 | DECIMAL | 18 | WNFEACTV | You are now the active in all respects except that your TOD clock might still be behind |
| 1 | DECIMAL | 19 | WNFECKAT | Your TOD clock is now ahead of active's at job termination |
| 1 | DECIMAL | 20 | WNFEPRMT | Another BACKUP pre-empted you after your TAKEOVER request had been accepted |
| 1 | DECIMAL | 21 | WNFETKFL | Takeover failed because of an error detected after the request had been accepted |
| 1 | DECIMAL | 24 | WNFEFAIL | CAVM has failed |
| 1 | DECIMAL | 25 | WNFEINVL | Active has invalidated you |
| 1 | DECIMAL | 32 | WNFENEWQ | Message arrival has caused a new message queue to be created |
| 1 | DECIMAL | 33 | WNFEREQM | Request message arrived |
| 1 | DECIMAL | 34 | WNFERSPM | Response message received |
| 1 | DECIMAL | 35 | WNFERSPX | Expected responder to a PUTREQ has gone away |
| 1 | DECIMAL | 36 | WNFENEWA | A message has arrived from a new ACTIVE instance |

WSA XRF CAVM surveillance status

CONTROL BLOCK NAME = DFHWSADS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance Status
 Control Blocks

FUNCTION =
 The various CAVM Surveillance Status Control Blocks exist to permit the 4 independent CAVM surveillance processes (2 status writers and 2 status readers) to communicate with other CAVM processes and with each other.
 Each XRF system contains a single set of these Surveillance Status Control Blocks.

LIFETIME =
 The Surveillance Status Control Block, Public Status Area Descriptors and Public Status Areas in a given XRF system are all created at the same time during CAVM SIGNON by DFHWSSN2.
 The actual Status CIs are created by DFHWSSN3 as records filled with binary zeroes when it formats a new CAVM Control or Message Data Set. They are never destroyed except by deletion of the data set.

STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 above the 16M line.
 The Status CIs themselves reside on DASD in the CAVM Control or Message Data Sets or in I/O buffers in MVS subpool 0 above the 16M line.

LOCATION =
 Field WCGSA in the CAVM Global Control Block (DFHWCGDS) contains a pointer to the Surveillance Status Control Block (DFHWSADS), which itself includes an array of Public Status Area Descriptors (WSADs) starting at WSAGWSAD.

INNER CONTROL BLOCKS =
 See FUNCTION and LOCATION.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 Status Record must not become too large to fit in a 4K CI.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | | | DFHWSADS | CAVM Surveillance Status Control Block |
| (0) | CHARACTER | 8 | WSAGID | Eye Catcher DFHWSAPS |
| (8) | BITSTRING | 1 | WSAGWRQD | Status Write Required Mask |
| | 1... .. | | WSAGPSWR | "X'80" Status Write to Control File needed |
| | .1.. .. | | WSAGSSWR | "X'40" Status Write to Message File needed |
| (9) | BITSTRING | 1 | WSAGVRQD | Status Verification Required Mask |
| | 1... .. | | WSAGPSVR | "X'80" Control File status verify needed |
| | .1.. .. | | WSAGSSVR | "X'40" Message File status verify needed |
| (A) | BITSTRING | 1 | WSAGWSTK | Status Writers Stuck Mask |
| (B) | BITSTRING | 1 | WSAGRSTK | Status Readers Stuck Mask |
| (C) | HALFWORD | 2 | WSAGBN | Maximum number of concurrent BACKUPS |
| (E) | HALFWORD | 2 | WSAGINDX | Index to this system's entry in the array of status descriptors (zero origin) |
| (10) | HALFWORD | 2 | WSAG#BSU | No. of BACKUPS whose Public Status is not yet available - WDSBBPSPA is broadcast when this reaches zero |
| (12) | BITSTRING | 1 | WSAGSRFL | Flags for controlling Status Readers |
| | 1... .. | | WSAGQBSR | "X'80" Quiesce Backup Status Readers |
| (13) | BITSTRING | 1 | WSAGPRST | Flags for recording the progress of a request to read the ACTIVE's latest status |
| (14) | FULLWORD | 4 | (0) | Ensure full word alignment |
| (14) | BITSTRING | 4 | WSAGRES | Internal ECB POSTed when request to read the ACTIVE's latest status has been completed |
| (18) | BITSTRING | 4 | WSAGWEP | Internal ECB POSTed to request a Status Write to the Control File |
| (1C) | BITSTRING | 4 | WSAGWES | Internal ECB POSTed to request a Status Write to the Message File |
| (20) | BITSTRING | 8 | WSAGPWCM (0) | Control File Write Complete Masks |
| (20) | BITSTRING | 4 | WSAGWCP | Mask defining event which will be broadcast when next Status Write to Control File completes successfully |
| (24) | BITSTRING | 4 | WSAGWCEP | Mask defining event which will be broadcast when next Status Write to Control File completes with error |
| (28) | BITSTRING | 8 | WSAGSWCM (0) | Message File Write Complete Masks |
| (28) | BITSTRING | 4 | WSAGWCS | Mask defining event which will be broadcast when next Status Write to Message File completes successfully |
| (2C) | BITSTRING | 4 | WSAGWCES | Mask defining event which will be broadcast when next Status Write to Message File completes with error |
| (30) | FULLWORD | 4 | (0) | Ensure full word alignment |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------------|-----|--------------------------|---|
| (30) | CHARACTER | 8 | WSAGPAIV | Instance & version no. of previous ACTIVE job which has either signed off or is no longer executing according to JES (BACKUPS only) |
| (38) | ADDRESS | 4 | WSAGP (0) | Start of Array of Status Descriptors |
| (38) | ADDRESS ..11 1... | 4 | WSAGWSAD (0) WSAGHDRL | Start of Array of Status Descriptors "--DFHWSADS" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|----------------------|-----|-------------------|---|
| (0) | | | WSAD | CAVM Public Status Area Descriptor |
| (0) | ADDRESS | 4 | WSADPB (0) | Alternative Name |
| (0) | ADDRESS | 4 | WSADPSA | Address of Public Status Area |
| (4) | HALFWORD | 2 | WSADTOTL | Total length of Public Status |
| (6) | HALFWORD | 2 | WSADSHRL | Length of shared Status section |
| (8) | HALFWORD | 2 | WSADIDVL | Length of individual Status section |
| (A) | HALFWORD | 2 | WSADPOFF | Offset to my individual section in partner's Public Status |
| (C) | ADDRESS ...1 | 4 | WSADSRCP WSADL | Pointer to Communications Area for Status Reader and Writer Processes "--WSAD" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | | | WSAS | Common Shared Section of Status |
| (0) | SIGNED | 1 | WSASST1 | System Status 1 |
|  | .... .... |  | WSASSOFN | "0" Signed off normally (must be zero) |
| |1 | | WSASSON | "1" Signed on |
| |1. | | WSASSOFA | "2" Signed off abnormally |
| (1) | SIGNED | 1 | WSASST2 | System Status 2 |
| |1 | | WSASACT | "1" System is ACTIVE |
| |1. | | WSASINCP | "2" System is incipient ACTIVE |
| |11 | | WSASBKUP | "3" System is a BACKUP |
| (2) | BITSTRING | 1 | WSASST3 | System status 3 |
| | 1... | | WSASXCFA | "X'80" System has XCF services avail. |
| (3) | BITSTRING | 1 | | Reserved |
| (4) | CHARACTER | 8 | WSASI#V# (0) | Instance and Version number |
| (4) | CHARACTER | 8 | WSASIVN (0) | Alternative name for I & V |
| (4) | FULLWORD | 4 | WSASINST | System's Instance number |
| (8) | FULLWORD | 4 | WSASVERN | System's Version number (always 1 for BACKUPS) |
| (C) | CHARACTER | 16 | WSASM (0) | Message state data (meaningful only for ACTIVE system) |
| (C) | FULLWORD | 4 | WSASMCID | CIDF corresponding to AWC |
| (10) | CHARACTER | 8 | WSASMAWC (0) | ACTIVE Write Cursor |
| (10) | FULLWORD | 4 | WSASMCNO | Message cycle number |
| (14) | FULLWORD | 4 | WSASMRBA | RBA of end of last message |
| (18) | FULLWORD | 4 | WSASMSQN | Sequence no. of last message |
| (1C) | CHARACTER | 12 | WSASMVSI | MVS System Identification - SMF ID and time & date of IPL |
| (28) | CHARACTER | 8 | WSASSPLX | XCF Sysplex name |
| (30) | CHARACTER | 8 | WSASSNAM | MVS System name |
| (38) | CHARACTER | 4 | WSASSTOK | MVS Instance token |
| (3C) | FULLWORD | 4 | WSASHBI | 'Heart-beat' interval |
| (40) | FULLWORD | 4 | WSASHBC | 'Heart-beat' counter |
| (44) | HALFWORD | 2 | | Reserved |
| (46) | HALFWORD | 2 | WSASIHLL | Length of local 'Inquire Health' data |
| (48) | CHARACTER | 256 | WSASIHLD | Local 'Inquire Health' data |
| (148) | HALFWORD | 2 | | Reserved |
| (14A) | HALFWORD | 2 | WSASIHGL | Length of global 'Inquire Health' data |
| (14C) | CHARACTER | 128 | WSASIHGD | Global 'Inquire Health' data |
| (14C) | | | WSASL | "--WSAS" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|--|
| (0) | | | WSAR | Specific Partner's Section of Status |
| (0) | HALFWORD | 2 | | Reserved |
| (2) | HALFWORD | 2 | WSARQROF | Offset to Message Management PUTREQ data (WSARQR) |
| (4) | CHARACTER | 16 | WSARM (0) | Message state data |
| (4) | CHARACTER | 8 | WSARMBRC (0) | BACKUP Read Cursor or Initial Read Cursor |
| (4) | FULLWORD | 4 | WSARMCNO | Message file cycle number |
| (8) | FULLWORD | 4 | WSARMRBA | RBA of end of last message read or of 1st message to be read |
| (C) | FULLWORD | 4 | WSARINST | Instance Number |
| (10) | FULLWORD | 4 | | Reserved |
| | ...1 .1.. | | WSARL | "--WSAR" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | WSARIV | Invalidation Message from ACTIVE |
| (0) | FULLWORD | 4 | WSARIV# | Instance number of BACKUP which is now invalid |
| (4) | CHARACTER | 12 | WSARIVRC | Invalidation reason code |
| | ...1 | | WSARIVL | "--WSARIV" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (0) | | | WSARTM | TAKEOVER message from BACKUP |
| (0) | HALFWORD | 2 | | Reserved |
| (2) | HALFWORD | 2 | WSARTMLN | Length of message |
| (4) | FULLWORD | 4 | WSARTMSI | Instance number of BACKUP trying to take over |
| (8) | CHARACTER | 8 | WSARTMIV (0) | |
| (8) | FULLWORD | 4 | WSARTMI# | Instance number of ACTIVE to be taken over |
| (C) | FULLWORD | 4 | WSARTMV# | Version number of ACTIVE to be taken over |
| (10) | CHARACTER | 128 | WSARTMSG | Takeover message |
| | 1..1 | | WSARTML | ""-WSARTM" |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | WSARQR | Message Management PUTREQ & PUTRSP messages |
| | 1... | | WSARQRL | "128" Length of a Request or Response Message |
| (0) | CHARACTER | 128 | WSARREQ | Request message (PUTREQ) |
| (80) | FULLWORD | 4 | (0) | Ensure full word alignment |
| (80) | CHARACTER | 1 | WSARRSP | Response message (PUTRSP) |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | | | WSASV1 | Version 1 WSAS |
| (0) | SIGNED | 1 | WSV1ST1 | System Status 1 |
|  | .... .... |  | WSV1SOFN | "0" Signed off normally (must be 0) |
| |1 | | WSV1SON | "1" Signed on |
| |1. | | WSV1SOFA | "2" Signed off abnormally |
| (1) | SIGNED | 1 | WSV1ST2 | System Status 2 |
| |1 | | WSV1ACT | "1" System is ACTIVE |
| |1. | | WSV1INCP | "2" System is incipient ACTIVE |
| |11 | | WSV1BKUP | "3" System is a BACKUP |
| (2) | HALFWORD | 2 | | Reserved |
| (4) | CHARACTER | 8 | WSV1I#V# (0) | Instance and Version number |
| (4) | CHARACTER | 8 | WSV1IVN (0) | Alternative name for I & V |
| (4) | FULLWORD | 4 | WSV1INST | System's Instance number |
| (8) | FULLWORD | 4 | WSV1VERN | System's Version number (always 1 for BACKUPS) |
| (C) | CHARACTER | 16 | WSV1M (0) | Message state data (meaningful only for ACTIVE system) |
| (C) | FULLWORD | 4 | WSV1MCID | CIDF corresponding to AWC |
| (10) | CHARACTER | 8 | WSV1MAWC (0) | ACTIVE Write Cursor |
| (10) | FULLWORD | 4 | WSV1MCNO | Message cycle number |
| (14) | FULLWORD | 4 | WSV1MRBA | RBA of end of last message |
| (18) | FULLWORD | 4 | WSV1MSQN | Sequence no. of last message |
| (1C) | CHARACTER | 12 | WSV1MVISI | MVS System Identification - SMF ID and time & date of IPL |
| (28) | FULLWORD | 4 | WSV1HBI | 'Heart-beat' interval |
| (2C) | FULLWORD | 4 | WSV1HBC | 'Heart-beat' counter |
| (30) | HALFWORD | 2 | | Reserved |
| (32) | HALFWORD | 2 | WSV1IHLL | Length of local 'Inquire Health' data |
| (34) | CHARACTER | 256 | WSV1IHLD | Local 'Inquire Health' data |
| (134) | HALFWORD | 2 | | Reserved |
| (136) | HALFWORD | 2 | WSV1IHGL | Length of global 'Inquire Health' data |
| (138) | CHARACTER | 128 | WSV1IHGD | Global 'Inquire Health' data |
| (138) | | | WSV1L | ""-WSASV1" |

WSC XRF CAVM time-of-day clock difference

```

CONTROL BLOCK NAME = DFHWSCDS
DESCRIPTIVE NAME = CICS (XRF) - CAVM TOD Clock Difference
                    Control Area

FUNCTION =
  A BACKUP system uses this control block to keep track of
  the difference between the ACTIVE system's TOD clock and
  its own when they are running in different CECs.
  There is one instance of this control block per BACKUP.

LIFETIME =
  DFHWSXPI creates this control block when a BACKUP system
  signs on to CAVM and DFHWSTKV destroys it when the BACKUP
  takes over from the ACTIVE.

STORAGE CLASS =
  Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =
  Field WCGCKDA in the XRF Global Control Block (DFHWCGDS)
  contains a pointer to the TOD Clock Difference Control Area.

INNER CONTROL BLOCKS =
  None.

NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS =
    None.
  MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
  None.

DATA AREAS =
  None.

CONTROL BLOCKS =
  None.

GLOBAL VARIABLES (Macro pass) =
  None.
  
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | WSCKD | TOD Clock Difference Control Area |
| (0) | DBL WORD | 8 | CKDLTMIN | Current minimum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's |
| (8) | DBL WORD | 8 | CKDLTMAX | Current maximum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's |
| (10) | FULLWORD | 4 | CKDTOD | ACTIVE's TOD clock reading corresponding to the current deltas to permit compensation for relative gain or loss of TOD clocks |
| | 1.1. | | CKDSHIFT | "10" Shift value corresponding to max. assumed relative rate of gain or loss of two TOD clocks (1 in 1024) |
| (14) | CHARACTER | 12 | CKDMVSI | MVS instance (SMF ID, IPL time & date) to which clock difference refers |
| | ..1. | | WSCKDL | "*-WSCKD" |

WSM XRF CAVM state manager record description

CONTROL BLOCK NAME = DFHWMSMDS
DESCRIPTIVE NAME = CICS (XRF) - CAVM State Management
Record Description

FUNCTION =

This control block defines the format of the State Management Record in the CAVM Control Data Set, which is used to keep track of what CICS jobs are signed on to CAVM and their current state (ACTIVE, normal BACKUP, BACKUP performing TAKEOVER, etc.). There is one State Management Record in each CAVM Control Data Set. It contains just one instance of SMDESCR and instances of WSJDESC for each ACTIVE or BACKUP job which CAVM will allow to sign on concurrently using that particular CAVM Control Data Set. The instance of WSJDESC which immediately follows SMDESCR always refers to the ACTIVE job.

LIFETIME =

The State Management Record is created by DFHWSSN3 when it formats a new CAVM Control Data Set and is initialised by DFHWSSN2 during the first successful SIGNON. It is never destroyed except by deletion of the data set.

STORAGE CLASS =

This control block resides on DASD in the CAVM Control Data Set or in an I/O buffer or work area in MVS subpool 0 above the 16M line.

LOCATION =

Field WFGSMRBA in the CAVM File Control Block (DFHWFGDS) contains the RBA of the State Management Record within the CAVM Control Data Set. It is always the second CI in the data set.

INNER CONTROL BLOCKS =

None.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|---|
| (0) | | | SMDESCR | State Management Record Global Data |
| (0) | FULLWORD | 4 | SMDSECT | Security count updated whenever the State Management Record is updated |
| (4) | FULLWORD | 4 | SMDINST# | Instance Number assigned to last system which signed on (ACTIVE or BACKUP) |
| (8) | CHARACTER | 8 | SMDAI#V# (0) | Last ACTIVE instance & version |
| (8) | FULLWORD | 4 | SMDAINST | Instance no. of current (or last) ACTIVE system |
| (C) | FULLWORD | 4 | SMDAVERN | Version no. of current (or last) ACTIVE system |
| (10) | DBL WORD | 8 | SMDR#TOD (0) | Array of resource time-stamps |
| (10) | DBL WORD | 8 | SMDR1TOD | Time-stamp for resource set R1 - estimated reading of last updater's TOD clock when he signed off from CAVM |
| (18) | DBL WORD | 8 | SMDR2TOD | Time-stamp for resource set R2 - estimated reading of last updater's TOD clock when his job terminated |
| (20) | HALFWORD | 2 | SMDR#NDX (0) | Array of resource ownership indices in same order as time-stamps |
| (20) | HALFWORD | 2 | SMDR1NDX | Index to the job description of the current owner of resource set R1 or 1's complement of last owner's index if R1 is free |
| (22) | HALFWORD | 2 | SMDR2NDX | Index to the job description of the current owner of resource set R2 or 1's complement of last owner's index if R2 is free |
| (24) | HALFWORD | 2 | SMDTKNDX | Index to the job description of the BACKUP which is performing TAKEOVER or 1's complement of index of last BACKUP to attempt it |
| (26) | HALFWORD | 2 | SMD#JOBS | Number of job descriptions in the State Management Record |
| (28) | DBL WORD | 8 | SMDSMJ0 (0) | Start of ACTIVE's job description |
| ..1. 1... | | | SMDL | ""-SMDESCR" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | WSJDESC | State Management Record Job Description |
| (0) | CHARACTER | 8 | WSJSAPPL | Specific APPLID |
| (8) | CHARACTER | 8 | WSJOBNAM | Job Name |
| (10) | CHARACTER | 8 | WSJOBID | JES Job Identifier |
| ...1 1... | | | WSJS1END | "" |
| (8) | CHARACTER | 16 | WSJOBNID | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (18) | FULLWORD | 4 | WSJSTIME | Job submission time (from JMR) |
| (1C) | FULLWORD | 4 | WSJSDATE | Job submission date (from JMR) |
| (20) | FULLWORD | 4 | WSJATIME | Time when job-step task was ATTACHed |
| (24) | CHARACTER | 4 | WSJSSNAM | MVS subsystem name of job's JES |
| (28) | CHARACTER | 12 | WSJMVSID | MVS system instance - SMF ID and time & date of IPL |
| | | | WSJS2END | *** |
| (24) | CHARACTER | 16 | WSJMVSJ | |
| (34) | CHARACTER | 8 | WSJCANNM | Name to use in MVS CANCEL command to cancel this job (from CSCB) |
| (3C) | HALFWORD | 2 | WSJASID | ASID of job's address space |
| | | | WSJS3END | *** |
| (8) | CHARACTER | 54 | WSJOBSTI | |
| (3E) | CHARACTER | 1 | WSJSIND | System Indicator |
| | | | WSJXCFA | "X'80" XCF available in MVS release |
| (3F) | SIGNED | 1 | WSJSTAT | Job status - signed on, signed off normally or signed off abnormally |
| (40) | DBL WORD | 8 | WSJSNTOD | TOD clock reading when CAVM SIGNON processing started |
| (48) | CHARACTER | 4 | WSJRST (0) | Restart information field |
| (48) | CHARACTER | 3 | WSJEYECA | Restart Eyecatcher '>RS' |
| (4B) | CHARACTER | 1 | WSJRSTYP | Restart type indicator |
| | | | WSJRSJOB | "X'01" Restart as JOB |
| | | | WSJRSSTC | "X'02" Restart as Started Task |
| (4C) | FULLWORD | 4 | | Spare |
| (50) | DBL WORD | 8 | (0) | Force length to double word multiple |
| | | | WSJLVER1 | **"-WSJDESC" Len of pre-CICS/ESA 3.2 job desc |
| (50) | CHARACTER | 8 | WSJSPLX | XCF Sysplex Name |
| (58) | CHARACTER | 8 | WSJSNAM | MVS Sytem name |
| (60) | CHARACTER | 4 | WSJSTOK | MVS System Instance token |
| (68) | DBL WORD | 8 | (0) | Force length to double word |
| | | | WSJS4END | *** |
| (50) | CHARACTER | 24 | WSJXCFFD | XCF Details |
| (58) | CHARACTER | 16 | WSJSDET | MVS System details |
| | | | WSJL | **"-WSJDESC" Len of CICS/ESA 3.2 job desc. |

The following DSECT describes the control CI of the CAVM control and message datasets. All the fields are set by DFHWSSN3 when it opens a new pair of CAVM datasets for the first time and the contents are verified on all subsequent SIGNON's.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | CTLREC | Control CI description |
| (0) | FULLWORD | 4 | CTLVER# | CAVM dataset version number CTLVER# = 1 --> Pre CICS 3.2 CTLVER# = 2 --> CICS 3.2 |
| (4) | FULLWORD | 4 | | |
| (8) | CHARACTER | 8 | CTLDDN | CAVM DD name (CDS or MDS ?) |
| (10) | CHARACTER | 8 | CTLGAPPL | Generic applid initialised for |
| (18) | CHARACTER | 20 | CTLUNQID | TOD d/s initialised plus MVS id |
| | | | CTLRECL | **"-CTLREC" |

WSN XRF entry points table

CONTROL BLOCK NAME = DFHWSNDS
 DESCRIPTIVE NAME = CICS (XRF) - Table of Entry Points in
 load module DFHWSMS

FUNCTION =
 This entry point table makes the entry points of modules
 in load module DFHWSMS available for use by code in the
 separate transient CAVM SIGNON load module DFHWSSON.
 The only instance of the table is in module DFHWSTI.

LIFETIME =
 Not applicable.

STORAGE CLASS =
 Not applicable.

LOCATION =
 This entry point table is contained in module DFHWSTI.
 On entry to DFHWSXPI, its address is in R1.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|----------------------------------|
| (0) | | | SMSSENTAB | Table of entry points in DFHWSMS |
| (0) | ADDRESS | 4 | SMSESTKV | EPA of DFHWSTKV |
| (4) | ADDRESS | 4 | SMSESSW | EPA of DFHWSSW |
| (8) | ADDRESS | 4 | SMSESSR | EPA of DFHWSSR |
| (C) | ADDRESS | 4 | SMSEMMI | EPA of DFHWMMI |

WSR XRF CAVM surveillance

CONTROL BLOCK NAME = DFHWSRDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance
 Communications Area

FUNCTION =
 The Surveillance Communications Areas are needed to allow the 4 independent CAVM surveillance processes (2 status writers and 2 status readers) to share some common data. In each XRF system, there are separate Surveillance Communications Areas referring to each actual or potential partner XRF system as well as a single Surveillance Communications Area referring to that system itself. The Status Record Header contains a TOD clock reading used in clock difference calculations and a sequence number used to determine which of two status records contains the more up-to-date information. It is built immediately before writing an XRF system's status to its Status CI in the CAVM Control Data Set or Message Data Set.

LIFETIME =
 All the Surveillance Communications Areas in a given XRF system are created at the same time during CAVM SIGNON by DFHWSSN2.

STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =
 Field WSADSRCP in each Public Status Area Descriptor (WSAD) contains a pointer to the corresponding XRF system's Surveillance Communications Area.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | SRHEADER | Status Record Header |
| (0) | DBL WORD | 8 | SRHTOD | Latest TOD clock reading |
| (8) | FULLWORD | 4 | SRHSEQ# | Sequence number of Status Write |
| | 11.. | | SRHEADRL | ""-SRHEADER" Length of Status Record Header |
| | 11.. | | SRHWSAS | "" Start of common shared section of Status (WSAS) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | SRVCOM | Surveillance Communications Area |
| (0) | CHARACTER | 1 | SRVCHBOD | Indicator that 'heart-beat overdue' NOTIFY has been issued |
| (1) | CHARACTER | 1 | SRVCSOFA | Indicator that 'sign-off' abnormal NOTIFY has been issued |
| (2) | CHARACTER | 1 | SRVCSVCF | Indicator that DFH6646 msg has been issued as a result of SVC failureL1A |
| (3) | BITSTRING | 1 | SRVCHBPM | 'Heart-beat' position mask showing which CAVM file is being read to track this partner's 'heart-beat' |
| (4) | BITSTRING | 1 | SRVCHBLM | 'Heart-beat' late mask showing which files have been read without finding this partner's 'heart-beat' |
| (5) | BITSTRING | 1 | SRVCI OEM | I/O error mask showing which files have had an I/O error during the last read or write of this status CI |
| (8) | FULLWORD | 4 | SRVCLIHT | TOD when most recent indication that this partner's 'INQUIRE HEALTH' exit had run was detected |
| (C) | FULLWORD | 4 | SRVCPBS# | Status write sequence no. of Public Status |
| (10) | FULLWORD | 4 | SRVCLS#P | Sequence no. of latest status read from or written to the control file |
| (14) | FULLWORD | 4 | SRVCLS#S | Sequence no. of latest status read from or written to the message file |
| | ...1 1... | | SRVCOML | ""-SRVCOM" |

WSS XRF CAVM state manager parameter list

CONTROL BLOCK NAME = DFHWSSDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM State Management
 Parameter Block

FUNCTION =
 The CAVM State Management Parameter Block is used to describe a CAVM SIGNON, SIGNOFF or TAKEOVER request.

LIFETIME =
 Determined by the user of CAVM.

STORAGE CLASS =
 Determined by the user of CAVM.

LOCATION =
 On entry to CAVM code, R1 points at the parameter block.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | | | DFHWSSDS | State management parameter block - pointed to by R1 |
| (0) | FULLWORD | 4 | WSSFUNC | Function |
| (4) | HALFWORD | 2 | WSSFUNCM | Function modifier |
| (6) | SIGNED | 1 | WSSRESP | Response |
| (7) | SIGNED | 1 | WSSREASC | Reason code |
| (8) | ADDRESS | 4 | WSSUNIQA | Addr. of section unique to function |
| (C) | FULLWORD | 4 | WSSUNIQL | Length of section unique to function |
| | ...1 | | WSSCOMND | *** End of common section |
| | ...1 | | WSSCOMLN | **-DFHWSSDS" Length of common section |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------|-----|------------|---|
| (0) | | | WSSSONDS | Unique parameters for SIGNON |
| (0) | CHARACTER | 8 | WSSGAPPL | Generic APPLID |
| (8) | CHARACTER | 8 | WSSSAPPL | Specific APPLID |
| (10) | ADDRESS | 4 | WSSNFPEA | Address of NOTIFY exit routine |
| (14) | FULLWORD | 4 | WSSNFPRM | Parameter for NOTIFY exit |
| (18) | ADDRESS | 4 | WSSIHEPA | Address of INQUIRE HEALTH exit |
| (1C) | FULLWORD | 4 | WSSIHPRM | Parameter for INQUIRE HEALTH exit |
| (20) | FULLWORD | 4 | WSSHBINT | Heart-beat interval in seconds |
| (24) | CHARACTER | 4 | WSSMVID | MVS SMF id. returned to caller |
| (28) | CHARACTER | 4 | WSSJSID | JES subsystem id. ret to caller |
| (2C) | CHARACTER | 8 | WSSSPLX | XCF Sysplex name |
| (34) | CHARACTER | 8 | WSSSNAM | MVS System name |
| (3C) | CHARACTER | 4 | WSSSTOK | MVS System Instance token |
| (40) | BITSTRING | 1 | WSSSIND | MVS System Indicator byte |
| | 1... | | WSSXCFA | "X'80" ... XCF services available |
| | .1... ...1 | | WSSSONND | *** End of section unique to SIGNON |
| | .1... ...1 | | WSSSONLN | **-WSSSONDS" Length of section unique to SIGNON |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--|
| (0) | | | WSSSOFDS | Unique parameters for SIGNOFF |
| (0) | ADDRESS | 4 | | Reserved - must be zero |
| (4) | HALFWORD | 2 | | Reserved half-word - must be zero |
| (6) | HALFWORD | 2 | | Reserved - must be zero |
| (8) | ADDRESS | 4 | WSSSFMMMA | Address of my response msg buffer |
| (C) | HALFWORD | 2 | WSSSFMBL | Length of my response msg buffer |
| (E) | HALFWORD | 2 | WSSSFMML | Length of msg received from partner |
| | ...1 | | WSSSOFND | *** End of section unique to SIGNOFF |
| | ...1 | | WSSSOFLN | **-WSSSOFDS" Length of section unique to SIGNOFF |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|------------|--|
| (0) | | | WSSTKVDS | Unique parameters for TAKEOVER |
| (0) | FULLWORD | 4 | WSSINST# | Instance number of ACTIVE |
| (4) | FULLWORD | 4 | WSSVER# | Version number of ACTIVE (ignored if request is pre-emptive) |
| (8) | FULLWORD | 4 | WSSJMTL | Job termination time limit (seconds) |
| (C) | ADDRESS | 4 | WSSTKVMA | Address of 'TAKEOVER' msg for ACTIVE |
| (10) | HALFWORD | 2 | | Reserved half-word - must be zero |
| (12) | HALFWORD | 2 | WSSTKVML | Length of 'TAKEOVER' msg for ACTIVE |
| | ...1 .1.. | | WSSTKVND | "" End of section unique to TAKEOVER |
| | ...1 .1.. | | WSSTKVLN | ""-WSSTKVDS" Length of section unique to TAKEOVER |
| Function codes - values for WSSFUNC | | | | |
| |1 | | WSSFSON | "1" SIGNON |
| |1. | | WSSFSOFF | "2" SIGNOFF |
| |11 | | WSSFTKVR | "3" TAKEOVER |
| Function modifiers - values for WSSFUNCM | | | | |
|  | .... .... |  | WSSMSONA | "0" SIGNON as ACTIVE |
| |1 | | WSSMSONB | "1" SIGNON as BACKUP |
|  | .... .... |  | WSSMSOFN | "0" SIGNOFF NORMAL |
| |1 | | WSSMSOFA | "1" SIGNOFF ABNORMAL |
|  | .... .... |  | WSSMTKVN | "0" Non-pre-emptive TAKEOVER |
| |1 | | WSSMTKVP | "1" Pre-emptive TAKEOVER |

WST XRF takeover parameter area

CONTROL BLOCK NAME = DFHWSTDS
 DESCRIPTIVE NAME = CICS (XRF) - Takeover Parameter Area
 FUNCTION =

The Takeover Parameter Area is a storage area belonging to the CAVM TCB which is used to keep copies of the parameters CICS specified on the TAKEOVER request that the CAVM TCB is currently working on. DFHWSRTR makes the copies of the TAKEOVER parameters while running under the CICS TCB and the requesting TCA. If a subsequent failure in this TCA should lead to the freeing of the storage it owns, the CAVM TCB's processing of the TAKEOVER request will not be affected.

Each XRF BACKUP system has a single TAKEOVER parameter area. To avoid the problems which might arise from concurrent use of the Takeover Parameter Area, the CAVM TCB does not reference it unless the POST bit in WCSTXECB is 1, whereas the CICS TCB does not reference it unless this bit is 0 and also issues a CICS ENQ on WCSTCECB to serialise with other CICS TCAs which might be issuing TAKEOVER requests.

LIFETIME =

The Takeover Parameter Area is created by DFHWSXPI when a BACKUP system signs on to CAVM and is destroyed by DFHWSTKV during TAKEOVER processing.

STORAGE CLASS =

Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =

Field WCSTKVPP in the XRF Static Area (DFHWCSDS) contains a pointer to the Takeover Parameter Area.

INNER CONTROL BLOCKS =

None.

NOTES :

DEPENDENCIES = S/370
 RESTRICTIONS =

None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------|---|
| (0) | | | TKVPA | TAKEOVER parameter area |
| (0) | HALFWORD | 2 | TKVFUNCM | Copy of TAKEOVER modifier from State Management parameter list |
| (2) | HALFWORD | 2 | | Reserved - must be zero |
| (4) | FULLWORD | 4 | TKVINST# | Instance no. of ACTIVE system to be taken over |
| (8) | FULLWORD | 4 | TKVVER# | Version no. of ACTIVE system to be taken over (ignored if pre-emption is requested) |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------|--|
| (C) | FULLWORD | 4 | TKVJTMTL | Time limit for termination of the ACTIVE job after which operator assistance is sought (seconds) |
| (10) | FULLWORD | 4 | TKVMSG | Length of TAKEOVER message to send to the ACTIVE job |
| (14) | CHARACTER | 128 | TKVMSG TKVPALEN | TAKEOVER message for ACTIVE job **TKVPA* |

WSX XRF CAVM surveillance exits

CONTROL BLOCK NAME = DFHWSXDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance Exits
 Control Area

FUNCTION =
 The Surveillance Exits Control Area contains the entry point addresses and parameter values that the user specified at CAVM SIGNON for the NOTIFY and INQUIRE HEALTH exits, which are driven under the CAVM TCB during surveillance processing.
 Each XRF system contains a single Surveillance Exits Control Area.

LIFETIME =
 The Surveillance Exits Control Area is created by DFHWSSN2 during CAVM SIGNON.

STORAGE CLASS =
 Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =
 Field WCGSXA in the XRF Global Control Block (DFHWCGB) contains a pointer to the Surveillance Exits Control Area.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-------------------------------------|
| (0) | | | DFHWSXDS | Surveillance Exits Control Area |
| (0) | DBL WORD | 8 | WSXNFEPM (0) | Data for NOTIFY exit |
| (0) | ADDRESS | 4 | WSXNFEP | NOTIFY exit entry point |
| (4) | ADDRESS | 4 | WSXNFPRM | NOTIFY exit parameter (R0) |
| (8) | DBL WORD | 8 | WSXIHEPM (0) | Data for INQUIRE HEALTH exit |
| (8) | ADDRESS | 4 | WSXIHEP | INQUIRE HEALTH exit entry point |
| (C) | ADDRESS | 4 | WSXIHPRM | INQUIRE HEALTH exit parameter (R0) |
| | ...1 | | WSXEND | *** |
| | ...1 | | WSXLEN | **DFHWSXDS* Length of control block |

WS2 XRF parameter list

CONTROL BLOCK NAME = DFHWS2DS
 DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN2
 FUNCTION =
 This parameter list is used to provide DFHWSSN2 with the data it needs to process a CAVM SIGNON request. It is used just once during every CAVM SIGNON.
 LIFETIME =
 The DFHWSSN2 parameter list is created by DFHWSSN1, completed by DFHWSRTR, which issues the call to DFHWSSN2, and destroyed by DFHWSSN1.
 STORAGE CLASS =
 Non-CICS storage. In DFHWSSN1's automatic storage.
 LOCATION =
 On entry to DFHWSSN2, R1 contains a pointer to its parameter list.
 INNER CONTROL BLOCKS =
 None.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|-----------------------|--|
| (0) | | | SN2PLIST | Parameter List for DFHWSSN2 |
| (0) | FULLWORD | 4 | SN2FUNC | Zero entry point address to tell DFHWSRTR to process a SIGNON request |
| (4) | ADDRESS | 4 | SN2ENTBP | Pointer to entry point table |
| (8) | ADDRESS | 4 | SN2WSSPP | Pointer to State Management parameter list for SIGNON received by DFHWSSN1 |
| (C) | ADDRESS | 4 | SN2STATA | Pointer to XRF Static Area built by DFHWSSN1 |
| (10) | ADDRESS | 4 | SN2XRFNT | Pointer to table of entry points of routines below 16M line (copy of CSAXRFNT in the CICS CSA) |
| (14) | ADDRESS | 4 | SN2ESSOF ...1 1... | Entry point address of DFHWSSOF "--SN2PLIST" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|-----------------------------------|
| (0) | | | SONENTAB | Table of entry points in DFHWSSON |
| (0) | ADDRESS | 4 | SONESSN2 | EPA of DFHWSSN2 |
| (4) | ADDRESS | 4 | SONEDINA | EPA of DFHWDINA |
| (8) | ADDRESS | 4 | SONESXPI | EPA of DFHWSXPI |

WS3 XRF parameter list

CONTROL BLOCK NAME = DFHWS3DS
 DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN3
 FUNCTION =
 This parameter list is used to provide DFHWSSN3 with the data it needs to prepare the CAVM control and message data sets for use by SIGNON.
 It is used just once in every CAVM SIGNON.

LIFETIME =
 The DFHWSSN3 parameter list is both created and destroyed by DFHWSSN2.

STORAGE CLASS =
 Non-CICS storage. In DFHWSSN2's automatic storage.

LOCATION =
 On entry to DFHWSSN3, R1 contains a pointer to its parameter list.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | | SN3PLIST | Parameter List for DFHWSSN3 |
| (0) | CHARACTER | 8 | SN3GAPPL | Generic APPLID of system signing on |
| (8) | CHARACTER | 8 | SN3SAPPL | Specific APPLID of system signing on |
| (10) | CHARACTER | 12 | SN3MVSID | MVS system identification - SMF ID and time & date of IPL |
| (1C) | FULLWORD | 4 | SN3#CIS | No. of CIs required for use by State Management in each CAVM file |
| (20) | ADDRESS | 4 | SN3CIBFP | Pointer to CI buffer allocated by DFHWSSN3 |
| (24) | ADDRESS | 4 | SN3VSAMB | Pointer to VSAM Request Block built by DFHWSSN3 |
| (28) | ADDRESS | 4 | SN3FAA | Pointer to CAVM File Control Area built by DFHWSSN3 |
| | ..1. 11.. | | SN3PLL | ""-SN3PLIST" |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|---------------------------------------|
| (0) | | | VSAMRQB | VSAM Request Block |
| (0) | FULLWORD | 4 | VSAMRBA | RBA of record to read or write |
| (4) | ADDRESS | 4 | VSAMECB | External ECB for asynchronous request |
| (8) | FULLWORD | 4 | VSAMRPL (0) | Start of RPL for VSAM request |
| | 1... | | VSAMRQBL | ""-VSAMRQB" |

WTA XRF takeover initiation argument block

CONTROL BLOCK NAME = DFHWTADS
 DESCRIPTIVE NAME = CICS XRF Takeover Initiation
 Argument Block

FUNCTION =
 Used to specify arguments for a request to
 XRF Takeover Initiation Program (DFHWTI).
 Requests are:

- o Takeover Initiation
- o Verify CLT
- o Overseer Operator Command
- o Inquire Job Status
- o Process CLT
- o Issue MODIFY USERVAR
- o Terminate External Subsystem
- o Verify AXI
- o Issue subsystem command
- o Disable XRF services

There is one instance of this control block per request.

LIFETIME =
 Created and destroyed by caller.

STORAGE CLASS =
 MVS program key storage.

LOCATION =
 Pointed to by R1 on entry to Takeover Initiation Program.

INNER CONTROL BLOCKS =
 None.

NOTES :
 DEPENDENCIES = S/370 XA
 RESTRICTIONS =
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) =

| Offset Hex (0) | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-------------|--|
| | | | DFHWTADS | |
| REQUEST TYPE | | | | |
| (0) | FULLWORD | 4 | WTAREQ (0) | |
| (0) | BITSTRING | 1 | WTAFUNC | Function |
| (1) | BITSTRING | 1 | WTAMOD | Modifier |
| (2) | CHARACTER | 1 | (2) | Reserved |
| ARGUMENTS: | | | | |
| (4) | FULLWORD | 4 | WTAARGS (0) | |
| Takeover Initiation Inquire Job Status Process CLT | | | | |
| (4) | CHARACTER | 1 | WTACLEN | ""-WTAARGS" Length of arguments for ..Process CLT |
| | | | WTACIND | CEC indicators Treat old active job as.. |
| | | | WTACISA | "X'80" ..same MVS instance |
| | | | WTAISYSA | "X'40" ..same XCF Sysplex |
| (6) | HALFWORD | 2 | WTAISCMD | Command code (Issue subsys cmd) |
| (8) | CHARACTER | 4 | WTAICMVS | MVS system identifier if active ..job in separate CEC |
| (C) | FULLWORD | 4 | WTAICTOD | Most significant fullword of ..TOD clock at time of last ..change of state |
| (10) | CHARACTER | 8 | WTAIJOB | Job name as known by JES |
| (18) | CHARACTER | 8 | WTAIJOBI | Job identifier as known by JES |
| (20) | CHARACTER | 8 | WTAISNAM | MVS System name (CVTSNAM) |
| (28) | CHARACTER | 4 | WTAISTOK | MVS Instance Token (QUASSID) |
| (2C) | BITSTRING | 1 | WTAISTAT | MVS System State |
| | | | WTAISPRT | "X'80" ..In Sysplex Partitioning |
| | | | WTAILOCL | "X'40" ..In XCFLOCAL mode |
| (2D) | CHARACTER | 1 | (3) | Reserved |
| | | | WTAIJLEN | ""-WTAARGS" Length of arguments for ..Inquire Job Status |
| (30) | CHARACTER | 8 | WTAITCAN | Job name for CANCEL command |
| (38) | CHARACTER | 4 | WTAITJES | JES subsystem name |
| (3C) | HALFWORD | 2 | WTAITASI | Address space indentifier |
| (3E) | HALFWORD | 2 | | Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA: |
| (40) | FULLWORD | 4 | WTAIJESI | JES delay interval |
| | | | WTATILEN | ""-WTAARGS" Length of arguments for ..Takeover Initiation |
| | | | WTAVCLEN | ""-WTAARGS" Length of arguments for ..Verify CLT |
| (44) | CHARACTER | 4 | WTAISSID | External subsystem id. |
| | | | WTASCLEN | ""-WTAARGS" Length of arguments for ..Issue subssystem command |
| | | | WTATELEN | ""-WTAARGS" Length of arguments for ..Terminate External subsystem |
| | | | WTAVALEN | ""-WTAARGS" Length of arguments for ..Verify AXI |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|--------------|-----|--------------|---|
| Modify Uservar Overseer Operator Command Disable XRF services | | | | |
|  | .... .... |  | WTADXLN | "*-WTAARGS" Length of arguments for ..Disable Services |
|  | .... .... |  | WTAMULEN | "*-WTAARGS" Length of arguments for ..Modify Uservar |
| (4) | CHARACTER | 5 | WTAOCOMD (0) | Command data |
| (4) | ADDRESS | 4 | WTAOCAD | Address of command string |
| (8) | BITSTRING | 1 | WTAOCLL | Command string length (Maximum ..length 126 characters) |
| |1.1 | | WTAOCLEN | "*-WTAARGS" Length of arguments for ..Overseer Command |
| Inquire System Details | | | | |
| (4) | CHARACTER | 8 | WTAGSNAM | MVS System Name (CVTSNAM) |
| (C) | CHARACTER | 4 | WTAGSTOK | MVS Instance Token (QUASSID) |
| (10) | BITSTRING | 1 | WTAGSTAT | MVS System State |
| | 1... | | WTAGSPRT | "X'80" ...In Sysplex Partitioning |
| | ..1. | | WTAGLOCL | "X'40" ...In XCFLOCAL mode |
| | 11.1 | | WTAGSLEN | "*-WTAARGS" Length of arguments for ...Inquire System details |
| | ..1. 1.. | | WTALEN | "*-DFHWTADS" Overall length |
| ...as in MVS DSECT SSOB Request Function codes (WTAFUNC) | | | | |
| |1 | | WTAFTI | "X'01" Takeover Initiation |
| |1. | | WTAFJS | "X'02" Inquire Job Status |
| |11 | | WTAFVC | "X'03" Verify CLT |
| |1.. | | WTAFOC | "X'04" Overseer Operator Command |
| |1.1 | | WTAFMU | "X'05" Issue 'F USERVAR' |
| |11. | | WTAFLCL | "X'06" Process CLT only |
| |111 | | WTAFFE | "X'07" Terminate External Subsystem |
| | 1... | | WTAFVA | "X'08" Verify AXI |
| | 1..1 | | WTAFSC | "X'09" Issue subsystem command |
| | 1.1. | | WTAFDX | "X'0A" Disable XRF services |
| | 1.11 | | WTAFIS | "X'0B" Inquire MVS system details |
| Request Modifiers Takeover initiation | | | | |
| |1 | | WTATICM | "X'01" Do not terminate active job |
| |1. | | WTATIPC | "X'02" Do not process CLT |
| |1.. | | WTATICS | "X'04" Process CLT for same CEC only |
| Process CLT | | | | |
| |1.. | | WTATPCS | "WTATICS" Process CLT for same CEC only |
| Takeover external subsystem | | | | |
| |1 | | WTATECM | "WTATICM" Do not terminate active system |
| Verify AXI | | | | |
| |1 | | WTAVANCN | "X'01" Do not check cancel name in AXI |
| |1. | | WTAVANSS | "X'02" Do not check subsystem id. |
| Command Codes (WTAISCMD) Issue Subsystem Command | | | | |
| |1 | | WTASCERE | "1" /ERE |
| |1. | | WTASCSWT | "2" /SWITCH STANDBY SYSTEM |
| RETURN CODES: Contents of register 15 on return | | | | |
|  | .... .... |  | WTARCO | "0" Successful: Warning reason ..code may be supplied in R0 |
| | 1... | | WTARCF | "8" Failure: Failure reason ..code supplied in R0 |
| Contents of register zero on return Byte 0 Original function code Byte 1 Original modifier Bytes 2-3 Reason code as below Reason code values Any request type Failures | | | | |
| |1.. | | WTARISD | "X'0004" Service disabled |
| | 1... | | WTARIAA | "X'0008" Invalid request or argument |
| Takeover Initiation Warnings | | | | |
| | 11.. | | WTARIDV | "X'000C" CEC Dead Data request failed ..due to SSI VERIFY request ..failure |
| |1 | | WTARIDG | "X'0010" CEC Dead Data PUT failed due ..GETMAIN failure |
| |1 ..1.. | | WTARITF | "X'0014" Terminate command failed |
| Failures | | | | |
| |1 1... | | WTARIAF | "X'0018" Authorization check failed |
| |1 11.. | | WTARIAS | "X'001C" AFCS not found |
| Inquire Job Status Successful: | | | | |
|  | .... .... |  | WTARJNX | "X'0000" Job not executing - says JES |
| |1. | | WTARJSX | "X'0020" Job executing |
| |1. ....1 | | WTARXNX | "X'0021" Job not executing - says XCF |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|------------|---|
| Failures | | | | |
| | .1. .11 | | WTARJXF | "X'0023" IXCQUERY failure |
| | .1. .1.. | | WTARJNU | "X'0024" JES not up |
| | .1. .1.1 | | WTARJSSG | "X'0025" subt. stor. Getmain failed |
| | .1. .11. | | WTARJSAT | "X'0026" Subtask Attach failed |
| | .1. .111 | | WTARJSTO | "X'0027" Subtask TimeOut |
| | .1. 1.. | | WTARJSE | "X'0028" Subtask error |
| | .1. 1.1 | | WTARJJDE | "X'0029" Jes Detected Error |
| Verify CLT | | | | |
| Failures: | | | | |
| | .1.1 1.. | | WTARVAF | "WTARIAF" Authorization check failed |
| | .1.1 11.. | | WTARVAS | "WTARIAS" AFCS not found |
| | .1. 11.. | | WTARVNF | "X'002C" Cancel name check failed |
| | .11 | | WTARVMF | "X'0030" MVS SID check failed |
| | .11 .1.. | | WTARVJF | "X'0034" JES subsystem name check failed |
| | .11 1.. | | WTARVSF | "X'0038" Subsystem name check failed |
| Overseer Operator Command | | | | |
| Failures: | | | | |
| | .11 11.. | | WTARONA | "X'003C" Not authorised |
| Process CLT | | | | |
| Failures: | | | | |
| | .1.1 1.. | | WTARPAF | "WTARIAF" Authorization check failed |
| | .1.1 11.. | | WTARPAS | "WTARIAS" AFCS not found |
| | .1. | | WTARIMC | "X'0040" Modify uservar CSCB not found |
| | .1. .1.. | | WTARIMB | "X'0044" Modify uservar command too long |
| | .1. 1.. | | WTARIMS | "X'0048" Modify uservar MGCR SVC error |
| | .1. 11.. | | WTARIMV | "X'004C" Modify uservar ISTARVT not found |
| Issue Subsystem Command | | | | |
| Failures: | | | | |
| | .1.1 | | WTARCSF | "X'0050" SSI failure |
| | .1.1 .1.. | | WTARCCF | "X'0054" Command failure |
| Inquire System Details command | | | | |
| Successful: | | | | |
| | .11. | | WTARSOK | "X'0060" Inquire system details OK |
| | .11. .1.1 | | WTARSNFN | "X'0061" Named system not in sysplex |
| Failures: | | | | |
| | .11. .1.1 | | WTARSLOG | "X'0065" IXCQUERY Logic error |

Contents of register 1 on return
 Subtask failure indicators
 For Takeover Initiation, Terminate Subsystem
 and Inquire Job Status :-
 SSI/Subtask error status data

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------|---|
| (0) | | | WTARCR1 | |
| (0) | FULLWORD | 4 | WTARSSRC (0) | SSI/Subtask error flags |
| (0) | BITSTRING | 1 | WTARSJND | STATUS error indicators: |
| | 1.. .. | | WTARSJNC | "X'80" STATUS has hung. When caller TCB ..terminates it must do so by ..issuing ABEND. Other indicators ..in Reg 1 are unreliable. |
| |1.1 | | WTARSJNJ | "X'01" SSOBRETN byte 3 from IEFSSREQ ..STATUS in WTARSJSE |
| |1.1 | | WTARSJNS | "X'02" R15 byte 3 from IEFSSREQ ..STATUS in WTARSJSE |
| |1.. | | WTARSJNG | "X'04" Subtask/exit routine storage ..GETMAIN failed |
| | 1.. | | WTARSJNA | "X'08" Subtask ATTACH failed |
| |1.1 | | WTARSJNT | "X'10" Subtask timeout occurred |
| (1) | BITSTRING | 1 | WTARSJSE | SSI return code from STATUS ..as in MVS DSECT SSOB |
| (2) | BITSTRING | 1 | WTARSVND | SSI VERIFY/COMMAND errors |
| |1.1 | | WTARSVNJ | "X'01" SSOBRETN byte 3 from IEFSSREQ ..in WTARSVSE |
| |1.1 | | WTARSVNS | "X'02" R15 byte 3 after IEFSSREQ ..in WTARSVSE |
| |1.. | | WTARSVNM | "X'04" CICS not an MVS subsystem |
| (3) | BITSTRING | 1 | WTARSVSE | SSI return code from VERIFY/COMMAND |

WTG XRF trace control area

CONTROL BLOCK NAME = DFHWTGPS
 DESCRIPTIVE NAME = CICS (XRF) Trace Control area
 FUNCTION =
 Contains description of the XRF Trace area. There is a single instance.
 LIFETIME =
 Created on first call to XRF Trace (normally the result of the call to GET LIFO (DFHWLGET) made by XRF ATTACH (DFHWDATT) when called from INITIAL ATTACH (DFHWDINA) during the XRF SIGNON process.
 Destroyed during XRF SIGNOFF.
 STORAGE CLASS =
 Non-CICS storage. Usually above 16M line.
 LOCATION =
 Addressed by WCGTRA in XRF Global area DFHWCGPS.
 INNER CONTROL BLOCKS =
 WTGAREA When DFHWTRP allocates the Trace control area it also allocates the trace area itself.
 WTGAREA describes the header of the trace area.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 WCGTRA Base for trace control area.

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|--|
| Hex | | | | |
| (0) | STRUCTURE | 64 | DFHWTGPS | Addressed from WS Global |
| (0) | CHARACTER | 16 | WTGAHDNG | Heading text - text is defined in WTGATEXT |
| (10) | ADDRESS | 4 | WTGSTART | Start of trace table |
| (14) | ADDRESS | 4 | WTGEND | End of trace table |
| (18) | ADDRESS | 4 | WTGNEXT | Next trace table entry |
| (1C) | BITSTRING | 2 | WTGFLAGS | |
| | 1... | | WTGFWRAP | Table has wrapped |
| (1C) | BITSTRING | 1 | * | Reserved |
| (1E) | HALFWORD | 2 | * | Reserved |
| (20) | CHARACTER | 8 | WTGCLOCK | Target for STCK instrn issued by DFHWTRP. |
| (28) | ADDRESS | 4 | * | Reserved |
| (2C) | UNSIGNED | 4 | * | Reserved |
| (30) | CHARACTER | 8 | WTGCOPY | Shifted copy of STCK |
| (30) | UNSIGNED | 4 | WTG1647 | STCK bits 16-47 |
| (38) | ADDRESS | 4 | WTGCSTEP | Address of latest clock step entry. |
| (3C) | ADDRESS | 4 | WTGENTRY | Work space for trace |

Constants

| Len | Type | Value | Name | Description |
|--------------|-----------|------------------|----------|--------------|
| 4 | DECIMAL | 65536 | WTGASIZE | Allocate 64K |
| Heading text | | | | |
| 16 | CHARACTER | *** XRF TRACE ** | WTGATEXT | |

WTR XRF trace interface

CONTROL BLOCK NAME = DFHWTRPS
 DESCRIPTIVE NAME = CICS (XRF) XRF Trace Interface
 FUNCTION =
 XRF Trace parameter block description used by a caller of trace as a template to build a parameter block to pass to trace (DFHWTRP).
 LIFETIME =
 Duration of this particular use of storage is a single call to trace.
 STORAGE CLASS =
 User's discretion subject to lifetime constraint.
 LOCATION =
 Address is passed to DFHWTRP in Register 1.
 INNER CONTROL BLOCKS =
 WTRENTY This defines the structure of the entries in the XRF trace area and includes DFHWTRPS itself.
 WTRXxx Several definitions of the contents of the user parts of trace entries for the various primary entry types. DFHWTRPS also contains declarations of the values for the primary types and subtypes of the trace table entries.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 Interface to trace and user data part of trace entry

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 28 | DFHWTRPS | |
| (0) | CHARACTER | 2 | WTRTYPE | Entry type |
| (0) | UNSIGNED | 1 | WTRPRITP | Primary type code |
| (1) | UNSIGNED | 1 | WTRSUBTP | Subtype code |
| (2) | HALFWORD | 2 | WTRXPBNO | Process id. (set by trace routine not caller) |
| (4) | CHARACTER | 24 | WTRUSFLD | User fields |

Trace Entry format

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | STRUCTURE | 32 | WTRENTY | |
| (0) | CHARACTER | 28 | WTRUDATA | User data part |
| (1C) | UNSIGNED | 4 | WTRCLOCK | Bits 15-46 of STCK value relative to last midnight |
| (20) | CHARACTER | | WTREND | |

Specific trace entry formats.

Linkage

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 12 | WTRX01 | Call |
| (0) | CHARACTER | 8 | WTRX01NM | Module name |
| (8) | ADDRESS | 4 | WTRX01LA | LIFO allocation address |

Dispatcher
Usage is: WTRSTATT - WTRX021 = WDSIEPA (ATTACH argument)
22 = WDSIIDA
23 = WDSIESPIE
24 = WDSSESTAE
25 = Addr of attached process XPB
26 = Process id. of attached proc.

WTRSTDET - No data
WTRSTDSP - WTRX021 = WXBEECBA
22 = WXBIECBA
23 = WXBWEVM
24 = WXBPEVM
25 = Addr of process XPB
26 = WXBHLKM

WTRSTXWE - WTRX021 = WDSEECBA (WAIT arguments)
22 = WDSIECBA
23 = WDSWEVM
24 = WDSPEVM
25 = WDSREVM

WTRSTXWL - WTRX021 = WDSFLKM (WAIT arguments)
22 = WDSGLKM
25 = WDGGLKSM
26 = WXBHLKM

WTRSTEND - No data
WTRSTOSW - WTRX025 = Addr of MVS WAIT list
26 = Number of events in list
WTRSTOSR - No data

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|-------------|
| Hex | | | | |
| (0) | STRUCTURE | 24 | WTRX02 | Dispatcher |
| (0) | ADDRESS | 4 | WTRX021 | Field 1 |
| (4) | ADDRESS | 4 | WTRX022 | Field 2 |
| (8) | ADDRESS | 4 | WTRX023 | Field 3 |
| (C) | ADDRESS | 4 | WTRX024 | Field 4 |
| (10) | ADDRESS | 4 | WTRX025 | Field 5 |
| (14) | ADDRESS | 4 | WTRX026 | Field 6 |

Message Manager I/O

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|---------------|
| Hex | | | | |
| (0) | STRUCTURE | 12 | WTRX03 | Call |
| (0) | ADDRESS | 4 | WTRX03RP | RPL address |
| (4) | ADDRESS | 4 | WTRX03RB | RBA of CI |
| (8) | CHARACTER | 1 | * | Reserved |
| (9) | CHARACTER | 3 | WTRX03FB | VSAM Feedback |

Message Manager Requests
Usage is: WTRSTENQ - WTRX042 = Queue name
43 = Message sequence number
44 = Address of message block

WTRSTWRT - WTRX042 = QUEUE name
43 = Message sequence number
44 = Message cycle number
45 = RBA of message
46 = Response to request

WTRSTRQO - WTRX041 = Instance number
42 = Version number
43 = Message sequence number
44 = Channel number
45 = Channel status
46 = Response to request

WTRSTRPO, WTRSTRQI, WTRSTRPI same as WTRSTRQO

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|--------------------------|
| Hex | | | | |
| (0) | STRUCTURE | 24 | WTRX04 | Message manager requests |
| (0) | CHARACTER | 8 | WTRX04IV | Instance/Version |
| (0) | ADDRESS | 4 | WTRX041 | Field 1 |
| (4) | ADDRESS | 4 | WTRX042 | Field 2 |
| (8) | ADDRESS | 4 | WTRX043 | Field 3 |
| (C) | ADDRESS | 4 | WTRX044 | Field 4 |
| (10) | ADDRESS | 4 | WTRX045 | Field 5 |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (14) | ADDRESS | 4 | WTRX046 | Field 6 |
| (14) | CHARACTER | 2 | * | Filler |
| (16) | CHARACTER | 2 | WTRX046R | Field 6R |

Clock step

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 20 | WTRXFE | Clock step |
| (0) | CHARACTER | 8 | WTRXFECK | Actual STCK value |
| (8) | UNSIGNED | 4 | WTRXFEOB | Old midnight value |
| (C) | UNSIGNED | 4 | WTRXFENB | New midnight value |
| (10) | ADDRESS | 4 | WTRXFEPE | Previous clock step entry |

Reserved

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------|
| (0) | STRUCTURE | | WTRXFF | Reserved |
| (0) | CHARACTER | | * | Reserved |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--------------------------|
| 1 | DECIMAL | 1 | WTRPTLNK | Link |
| 1 | DECIMAL | 1 | WTRSTCAL | Link - Call |
| 1 | DECIMAL | 2 | WTRSTRTN | Link - Return |
| 1 | DECIMAL | 2 | WTRPTDSP | Dispatcher |
| 1 | DECIMAL | 1 | WTRSTATT | Disp - Process Attach |
| 1 | DECIMAL | 2 | WTRSTDET | Disp - Process Detach |
| 1 | DECIMAL | 3 | WTRSTDSP | Disp - Process Dispatch |
| 1 | DECIMAL | 4 | WTRSTXWE | Disp - XRF Wait (events) |
| 1 | DECIMAL | 5 | WTRSTXWL | Disp - XRF Wait (locks) |
| 1 | DECIMAL | 6 | WTRSTEND | Disp - No process |
| 1 | DECIMAL | 7 | WTRSTOSW | Disp - OS WAIT |
| 1 | DECIMAL | 8 | WTRSTOSR | Disp - OS dispatch |
| 1 | DECIMAL | 3 | WTRPTMMV | Message Manager I/O |
| 1 | DECIMAL | 1 | WTRSTVGT | MMV - VSAM GET Request |
| 1 | DECIMAL | 2 | WTRSTVPT | MMV - VSAM PUT Request |
| 1 | DECIMAL | 3 | WTRSTRVP | MMV - VSAM Response |
| 1 | DECIMAL | 4 | WTRPTMMR | Message Manager Requests |
| 1 | DECIMAL | 1 | WTRSTENQ | MMR - GET Message ENQ |
| 1 | DECIMAL | 2 | WTRSTWRT | MMR - PUT Message out |
| 1 | DECIMAL | 3 | WTRSTRQO | MMR - RQR Request Out |
| 1 | DECIMAL | 4 | WTRSTRPO | MMR - RQR Response Out |
| 1 | DECIMAL | 5 | WTRSTRQI | MMR - RQR Request In |
| 1 | DECIMAL | 6 | WTRSTRPI | MMR - RQR Response In |
| 1 | DECIMAL | 254 | WTRPTCLK | Clock step |
| 1 | DECIMAL | 255 | WTRPTRSV | Reserved |

WXB XRF process block

CONTROL BLOCK NAME = DFHWXBPS
 DESCRIPTIVE NAME = CICS (XRF) Process Block
 FUNCTION =
 XRF process analogue of the CICS TCA supporting the XRF LIFO mechanism and process dispatching.
 LIFETIME =
 Created by XRF ATTACH (DFHWDATT) and destroyed when process returns (DFHWDISP).
 Artificial instances are sometimes created by other modules, e.g. DFHWMS10, when they wish to create an environment in which the XRF LIFO mechanism can be used, though such instances are never visible to the XRF process dispatcher.
 STORAGE CLASS =
 Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.
 LOCATION =
 Conventionally addressed by R12. Those created by ATTACH are also on the XRF dispatcher chain WDGFXPB.
 INNER CONTROL BLOCKS =
 None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None

| Offset Hex | Type | Len | Name (Dim) | Description |
|-----------------------------------|-----------|-----|------------------|--------------------------------|
| (0) | STRUCTURE | 144 | DFHWXBPS | XRF Process block (XPB) |
| (0) | CHARACTER | 48 | WXBDSTAT | Dispatcher state data |
| Dispatcher chain and LIFO anchors | | | | |
| (0) | CHARACTER | 24 | WXBBASE | Basic part |
| (0) | ADDRESS | 4 | WXBCHAIN | Next XPB in dispatcher chain |
| (4) | FULLWORD | 4 | WXBSIZE | Size of block |
| (8) | ADDRESS | 4 | WXBLA | Current LIFO addr |
| (C) | ADDRESS | 4 | WXBGLBLA | WS Global address |
| (10) | HALFWORD | 2 | WXBXPBNO | Process identifier |
| (12) | BITSTRING | 2 | WXBPFLGS | Flags |
| | | | 1... .. WXBFWAIT | Process issued a WAIT |
| | | | .1.. .. WXBFXRF | XRF Process XPB |
| (12) | BITSTRING | 1 | * | Spare |
| (14) | ADDRESS | 4 | WXBLBLKA | Current LIFO block addr |
| Locks and events | | | | |
| (18) | CHARACTER | 24 | WXBLED | Lock and event data |
| (18) | ADDRESS | 4 | WXBEECBA | External event address |
| (1C) | ADDRESS | 4 | WXBIECBA | Internal event address |
| (20) | BITSTRING | 4 | WXBWEVM | Broadcast events waited |
| (24) | BITSTRING | 4 | WXBPEVM | Broadcast events posted |
| (28) | BITSTRING | 4 | WXBRLKM | Freed locks mask |
| (2C) | BITSTRING | 4 | WXBHLKM | Locks held mask |
| Dispatcher save area | | | | |
| (30) | CHARACTER | 64 | WXBDSVA | Dispatcher register save area. |
| (30) | ADDRESS | 4 | WXBDSV00 | Register 0 save slot |
| (34) | ADDRESS | 4 | WXBDSV01 | Register 1 save slot |
| (38) | ADDRESS | 4 | WXBDSV02 | Register 2 save slot |
| (3C) | ADDRESS | 4 | WXBDSV03 | Register 3 save slot |
| (40) | ADDRESS | 4 | WXBDSV04 | Register 4 save slot |
| (44) | ADDRESS | 4 | WXBDSV05 | Register 5 save slot |
| (48) | ADDRESS | 4 | WXBDSV06 | Register 6 save slot |
| (4C) | ADDRESS | 4 | WXBDSV07 | Register 7 save slot |
| (50) | ADDRESS | 4 | WXBDSV08 | Register 8 save slot |
| (54) | ADDRESS | 4 | WXBDSV09 | Register 9 save slot |
| (58) | ADDRESS | 4 | WXBDSV10 | Register 10 save slot |
| (5C) | ADDRESS | 4 | WXBDSV11 | Register 11 save slot |
| (60) | ADDRESS | 4 | WXBDSV12 | Register 12 save slot |
| (64) | ADDRESS | 4 | WXBDSV13 | Register 13 save slot |
| (68) | ADDRESS | 4 | WXBDSV14 | Register 14 save slot |
| (6C) | ADDRESS | 4 | WXBDSV15 | Register 15 save slot |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|------------------------|
| Data from ATTACH | | | | |
| (70) | ADDRESS | 4 | WXBIDA | Initial data parameter |
| (74) | ADDRESS | 4 | WXBESPIE | ESPIE exit address |
| (78) | ADDRESS | 4 | WXBESPDA | ESPIE parameter |
| (7C) | ADDRESS | 4 | WXBESTAE | ESTAE exit address |
| (80) | ADDRESS | 4 | WXBESTDA | ESTAE parameter |
| (84) | ADDRESS | 4 | * (3) | Reserved |
| Dummy stack block starts at end of XPB. | | | | |
| (90) | CHARACTER | | WXBISB | Dummy stack block |

Overlay of status used when XPB is a dummy built simply to gain access to LIFO support.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (18) | STRUCTURE | 8 | WXBCICS | |
| (18) | ADDRESS | 4 | WXBTC A | TCA address of task which is using this XPB. |
| (1C) | ADDRESS | 4 | WXBCSA | CSA address |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------|---------------------------|
| 2 | DECIMAL | -1 | WXPNDSP | Dispatcher pseudo-process |
| 2 | DECIMAL | -2 | WXPNSRP | Error pseudo-process |

WXL XRF LIFO stack area

CONTROL BLOCK NAME = DFHWXLPS
 DESCRIPTIVE NAME = CICS (XRF) XRF LIFO Stack Areas
 FUNCTION =
 Control data at the beginning of a block of storage from which XRF LIFO storage is allocated.
 LIFETIME =
 Created by GET LIFO (DFHWLGET) when a new stack block is acquired for an XRF process.
 Destroyed by FREE LIFO (DFHWLFRE) when all allocations of LIFO in the block have been released.
 An instance is also imbedded within an XRF process block (DFHWXBPS) to provide a first block containing space for just a standard OS Save Area used when a process is first dispatched.
 STORAGE CLASS =
 Non-CICS storage. MVS subpool 0 storage above 16M line.
 LOCATION =
 WXBLBLKA addresses the currently active stack block for a given XRF process.
 INNER CONTROL BLOCKS =
 WXLHDR Describes the allocation header which precedes each individual LIFO allocation within a LIFO stack block. The current allocation for a given XRF process is addressed by WXBLA.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 None
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 None
 CONTROL BLOCKS =
 WXBLBLKA
 WXBLA
 GLOBAL VARIABLES (Macro pass) =
 None
 Stack Block header

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------------------|
| (0) | STRUCTURE | 16 | DFHWXLPS | XRF LIFO Stack block hdr |
| (0) | ADDRESS | 4 | WXLPREV | Previous block address |
| (4) | ADDRESS | 4 | WXLBOS | Bottom of this block |
| (8) | ADDRESS | 4 | WXL EOS | End of this block |
| (C) | ADDRESS | 4 | WXLNAB | Next available byte in the block. |
| (10) | CHARACTER | | WXL END | |

Allocation header

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 16 | WXL AHDR | XRF LIFO Allocation header |
| (0) | CHARACTER | 8 | WXL AHID | Module identifier |
| (8) | ADDRESS | 4 | WXL AHPLA | Previous LIFO allocation |
| (C) | FULLWORD | 4 | WXL AHALN | Length of allocation (not including this header). |
| (10) | CHARACTER | | WXL AHEND | |

XCTRC Parameter list definition

CONTROL BLOCK NAME = DFHXCTRC
 DESCRIPTIVE NAME = CICS External CICS Interface, DFHXCTRA
 Parameter list definition.

FUNCTION = This file contains the XCTRA_PLIST definition. This DSECT defines the parameter list between DFHXCTRP (the EXCI trace module) and DFHXCTRA (the EXCI global trap module). Akin the CICS trap module DFHTRAP.

If DFHXCTRA is active, (by having TRAP=YES defined in DFHXCOPTS), then DFHXCTRA will be invoked for every trace entry put out by the EXCI facility.

LIFETIME = The storage mapped by this DSECT is GETMAINED by DFHXCTRI on the very first Init user request on every TCB, and kept until TCB termination.

LOCATION = The XCTRA_PLIST dsect is actually part of a larger control block called TRAP_WA (also included in this copy book), which includes the areas pointed at by fields in XCTRA_PLIST. TRAP_WA is chained off the XCGLOBAL for the TCB.

NOTES :

DEPENDENCIES = S/390
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 XCTRL - Mapping of LIFO storage required by DFHXCTRP, DFHXCTRI and DFHXCDMP.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------|------------------------------|
| (0) | STRUCTURE | 534 | XCTRL | |
| (0) | CHARACTER | 72 | RSA | Save Area for external calls |
| (0) | FULLWORD | 4 | * | Reserved |
| (4) | FULLWORD | 4 | RSACB | Backward Pointer |
| (8) | FULLWORD | 4 | RSACF | Forward Pointer |
| (C) | FULLWORD | 4 | *(15) | Regs 14 - 12 |
| (48) | ADDRESS | 4 | PLIST_PTR | Pointer to base plist on |
| (4C) | FULLWORD | 4 | AREA_LENGTH | Used in table initialisation |
| (50) | FULLWORD | 4 | BLOCK_COUNT | Used in table initialisation |
| (54) | FULLWORD | 4 | I | Loop Index |
| (58) | FULLWORD | 4 | J | Loop Index |
| (5C) | ADDRESS | 4 | BACKPTR | Used in table initialisation |
| (60) | ADDRESS | 4 | TR_BLOCK_PTR | Base for DFHTRBL structure |
| (64) | FULLWORD | 4 | SAVER14 | area to save R14 |
| (68) | FULLWORD | 4 | SAVE2R14 | area to save R14 |
| (6C) | BITSTRING | 1 | FOOTPRINTS | Footprint flags |
| | 1... .. | | TRA_FREEMAIN_REQ | Freemain of DFHTRA required |
| | .1.. .. | | TABLE_FREEMAIN_REQ | Freemain of Trace table req. |
| | ..1. | | TRAP_WA_FREEMAIN_REQ | Freemain of trap wa required |
| | ...1 | | GTF_BUF_FREEMAIN_REQ | Freemain of GTF buffer req. |
| | 1... | | MOVING_DATA | Moving Data into trace table |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|---------------------|------------------------------|
| |1.. | | TRAP_IN_CONTROL | Control passed to DFHXCTRA. |
| |1. | | OVERLENGTH_ENTRY | overlength entry detected |
| |1 | | * | Reserved |
| (6D) | BITSTRING | 1 | * (3) | Reserved |
| (70) | CHARACTER | 16 | XCSVC_PLIST | Parameter list to call XCSVC |
| (70) | ADDRESS | 4 | XCSVC_CODEP | Pointer to dump code |
| (74) | ADDRESS | 4 | XCSVC_IDP | Pointer to dump id |
| (78) | ADDRESS | 4 | XCSVC_USERP | Pointer to user name |
| (7C) | ADDRESS | 4 | XCSVC_TCBP | Pointer to TCB address |
| (80) | CHARACTER | 8 | WORK8 | Work area for CVD and unpack |
| (88) | CHARACTER | 8 | TCBA_STR | Char form of TCB address |
| (90) | CHARACTER | 3 | WORK3 | work area |
| (93) | CHARACTER | 4 | SDUMP_RC | Save area for SDUMP rc |
| (97) | CHARACTER | 9 | WORK9 | Work area |
| (A0) | CHARACTER | 5 | WORK5 | Work area |
| (A5) | CHARACTER | 4 | WORK4 | work area |
| (A9) | CHARACTER | 3 | * | reserved |
| (AC) | HALFWORD | 2 | INDEX | Index into string |
| (AE) | HALFWORD | 2 | RETRY_TIME_TO_GO | SDUMP retry time left |
| (B0) | ADDRESS | 4 | MSG_PLIST_PTR | Pointer to mebm plist |
| (B4) | BITSTRING | 1 | XCDMP_FOOTPRINTS | footprints for XCDMP |
| | 1... .. | | STIMERM_FAILED | remember STIMERM failed |
| | .1.. | | BUSY_MSG_ISSUED | Only issue busy msg once |
| | ..1. | | SYSTEM_DUMP_TKN | sdump has been taken |
| | ...1 1111 | | * | Reserved |
| (B5) | BITSTRING | 1 | * (3) | Reserved |
| (B8) | CHARACTER | 184 | MSG_PARM_AREA | plist for MEBM |
| (170) | CHARACTER | 132 | XCTRL_MSG | Message buffer |
| (170) | HALFWORD | 2 | XCTRL_MSG_LEN | LL |
| (172) | HALFWORD | 2 | XCTRL_MSG_0 | BB |
| (174) | CHARACTER | 124 | XCTRL_MSG_TEXT | Maximum size msg output |
| (1F0) | CHARACTER | 4 | XCTRL_MSG_WTO_PARMS | |
| | | | | Space for extra WTO parms |
| (1F4) | ADDRESS | 4 | GTF_PTR | Address of data for GTRACE |
| (1F8) | HALFWORD | 2 | GTF_LEN | Length of data for GTRACE |
| (1FA) | HALFWORD | 2 | GTF_LTG | Length-to-go for GTRACE |
| (1FC) | ADDRESS | 4 | ENTRY_PTR | Ptr to entry in table |
| (200) | HALFWORD | 2 | ENTRY_LEN | Entry length |
| (202) | CHARACTER | 8 | GTRACE_AUTO | Parameter area for GTRACE |
| (20A) | CHARACTER | 12 | XCTRL_SYMP_STR | symptom string |
| (20A) | CHARACTER | 8 | XCTRL_SYMP_STR_USER | |
| | | | | user name |
| (212) | CHARACTER | 2 | XCTRL_SYMP_STR_TPT | |
| | | | | trace point id |
| (214) | CHARACTER | 2 | * | Reserved |

XCTRA_PLIST - Parameter list passed to Global trap DFHXCTRA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-------------|--|
| (0) | STRUCTURE | 64 | XCTRA_PLIST | |
| | | | | XCTRA_ FLGSA Address of return actions flag word Return actions flag settings are in the byte addressed from field XCTRA_ FLGSA in the parameter list to DFHXCTRA. The individual flag settings are as follows, and are declared as constants at the end of the structure. |
| | | | | XCTRA_ FTRE EQU X'80' .. Make further trace entry on behalf of trap exit |
| | | | | XCTRA_ DUMP EQU X'40' .. Take a system dump |
| | | | | XCTRA_ SKIP EQU X'20' .. Skip putting current trace entry out to GTF |
| | | | | XCTRA_ DISA EQU X'10' .. Disable trap so that it cannot be used again under this TCB. |
| | | | | Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to DFHXCTRP. |
| (0) | ADDRESS | 4 | XCTRA_FLGSA | A(Return actions flag word) |
| | | | | XCTRA_CURTA Address of current entry in internal trace table This field points to the trace entry constructed by DFHXCTRP on the same invocation for which it is calling DFHXCTRA. This entry should not be modified by DFHXCTRA. Its structure is mapped by the DSECT DFHTREN. |
| (4) | ADDRESS | 4 | XCTRA_CURTA | A(Current entry) |
| | | | | XCTRA_WORKA Address of 80-byte work area for DFHXCTRA. This work area is acquired when DFHXCTRA is activated and is not changed by the EXCI until DFHXCTRA is de-activated, so it may be used for saving information between invocations of DFHXCTRA. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|-----------------|-------------------------------|
| (8) | ADDRESS | 4 | XCTRA_WORKA | A(80-byte work area) |
| TRAD1A/L, TRAD2A/L and TRAD3A/L These six fields are used in conjunction with the setting of XCTRA_FTRE in the return actions flag byte. This flag indicates that DFHXCTRP should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If XCTRA_FTRE is set, DFHXCTRP examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry. | | | | |
| (C) | CHARACTER | 24 | XCTRA_TRDAT | Total length of data fields |
| (C) | ADDRESS | 4 | XCTRA_TRAD1A | Address of DATA1 information |
| (10) | UNSIGNED | 4 | XCTRA_TRAD1L | Length of DATA1 information |
| (14) | ADDRESS | 4 | XCTRA_TRAD2A | Address of DATA2 information |
| (18) | UNSIGNED | 4 | XCTRA_TRAD2L | Length of DATA2 information |
| (1C) | ADDRESS | 4 | XCTRA_TRAD3A | Address of DATA3 information |
| (20) | UNSIGNED | 4 | XCTRA_TRAD3L | Length of DATA3 information |
| XCTRA_XCGBAL - Address of the XCGBAL block for this TCB. Address may be 0 if block not set up yet. | | | | |
| (24) | ADDRESS | 4 | XCTRA_XCGBAL | A(XCGBAL block) |
| XCTRA_XCUSERA - Address of the XCUSER block representing the particular user on whose behalf this request is running. Address may be 0 if block not set up yet. | | | | |
| (28) | ADDRESS | 4 | XCTRA_XCUSERA | A(XCUSER block) |
| XCTRA_XCPIPEA - Address of the XPIPE block representing the particular pipe being used for this request for this user. Address may be 0 if block not set up yet. | | | | |
| (2C) | ADDRESS | 4 | XCTRA_XCPIPEA | A(XCPIPE) |
| XCTRA_XCPRH_WAA - Address of the working storage of the program request handler. Address may be 0 if block not set up yet. | | | | |
| (30) | ADDRESS | 4 | XCTRA_XCPRH_WAA | A(DFHXCPRH's working storage) |
| XCTRA_XCEIP_WAA - Address of the working storage of the EXEC Interface program. Address may be 0 if block not set up yet, or the EXCI EXEC Interface is not being used. | | | | |
| (34) | ADDRESS | 4 | XCTRA_XCEIP_WAA | A(DFHXCEIP's working storage) |
| XCTRA_RSAA - Address of the register save area to be used by DFHXCTRA. | | | | |
| (38) | ADDRESS | 4 | XCTRA_RSAA | RSA address |
| (3C) | ADDRESS | 4 | * | Reserved |
| (40) | CHARACTER | | XCTRA_PLIST_END | Ending address |

TRAP_WA - Work areas for Global trap DFHXCTRA

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|--|
| (0) | STRUCTURE | 976 | TRAP_WA | |
| (0) | CHARACTER | 72 | TRAP_REGSAVE | RSA for DFHXCTRA |
| (48) | CHARACTER | 64 | TRAP_PLIST | |
| (88) | BITSTRING | 1 | TRAP_FLAGS | Trap return action flags |
| | | | TRAP_TRACE | Further trace entry required |
| | | | TRAP_DUMP | system dump required |
| | | | TRAP_SKIP_GTF | Skip outputting entry to GTF |
| | | | TRAP_DISABLE | Disable the trap |
| | | | * | Reserved |
| (89) | BITSTRING | 3 | * | Reserved |
| (8C) | CHARACTER | 128 | TRAP_TR_DU_PLIST | Area for plist for calling trace and dump |
| (10C) | CHARACTER | 534 | TRAP_TR_DU_WS | Working stg required for recursive Trace call. |
| (322) | CHARACTER | 72 | TRAP_TR_DU_RSA | RSA for recursive trace call |
| (370) | CHARACTER | 96 | TRAP_WORK | Force D-word alignment for.. |
| (370) | CHARACTER | 16 | TRAP_WORK_EYEC | '>DFHXCTRA_WKAREA' eyecatcher |
| (380) | CHARACTER | 80 | TRAP_WORKAREA | Work area for DFHXCTRA |

Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|------------|-------------|
| 1 | HEX | 80 | XCTRA_FTRE | |
| 1 | HEX | 40 | XCTRA_DUMP | |
| 1 | HEX | 20 | XCTRA_SKIP | |
| 1 | HEX | 10 | XCTRA_DISA | |

External CICS Interface Trace Points

Note: The exception trace point IDs correspond to the EXCI return code values for the particular error.

Please consult DFHXCRCC if any changes are made.

| | | | |
|---|-----|------|----------------------------------|
| 2 | HEX | 0001 | XCPRH_PIPE_ ALREADY_OPEN |
| 2 | HEX | 0002 | XCPRH_PIPE_ ALREADY_CLOSED |
| 2 | HEX | 0003 | XCPRH_VERIFY_ BLOCK_FM_ERROR |
| 2 | HEX | 0005 | XCPRH_XCP_FM_ERR |
| 2 | HEX | 0006 | XCPRH_IRP_ IOAREA_FM_ERR |
| 2 | HEX | 0007 | XCPRH_SERVER_ TERMINATED |
| 2 | HEX | 0008 | XCPRH_XFRSTG1_ FM_ERR |
| 2 | HEX | 0201 | XCPRH_NO_ CICS_IRC_STARTED |
| 2 | HEX | 0202 | XCPRH_NO_PIPE |
| 2 | HEX | 0203 | XCPRH_NO_ CICS_ON_OPEN |
| 2 | HEX | 0204 | XCPRH_NO_ CICS_ON_DPL_1 |
| 2 | HEX | 0205 | XCPRH_NO_ CICS_ON_DPL_2 |
| 2 | HEX | 0206 | XCPRH_NO_ CICS_ON_DPL_3 |
| 2 | HEX | 0403 | XCPRH_INVALID_ APPL_NAME |
| 2 | HEX | 0405 | XCPRH_PIPE_ NOT_CLOSED |
| 2 | HEX | 0406 | XCPRH_PIPE_ NOT_OPEN |
| 2 | HEX | 0407 | XCPRH_INVALID_ USERID |
| 2 | HEX | 0408 | XCPRH_INVALID_ UOWID |
| 2 | HEX | 0409 | XCPRH_INVALID_ TRANSID |
| 2 | HEX | 0414 | XCPRH_ABORT_ RECEIVED |
| 2 | HEX | 0415 | XCPRH_INVALID_ CONNECTION |
| 2 | HEX | 0416 | XCPRH_INVALID_ CICS_RELEASE |
| 2 | HEX | 0417 | XCPRH_PIPE_ MUST_CLOSE |
| 2 | HEX | 0418 | XCPRH_INVALID_ PIPE_TOKEN |
| 2 | HEX | 0422 | XCPRH_SERVER_ ABENDED |
| 2 | HEX | 0423 | XCPRH_SURROGATE_ CHECK_FAILED |
| 2 | HEX | 0603 | XCPRH_XCUSER_ GM_ERROR |
| 2 | HEX | 0604 | XCPRH_XCPIPE_ GM_ERROR |
| 2 | HEX | 0605 | XCPRH_VERIFY_ BLOCK_GM_ERROR |
| 2 | HEX | 0606 | XCPRH_SSI_ VERIFY_FAILED |
| 2 | HEX | 0607 | XCPRH_SVC_ CALL_FAILURE |
| 2 | HEX | 0608 | XCPRH_IRP_ LOGON_FAILURE |
| 2 | HEX | 0609 | XCPRH_IRP_ CONNECT_FAIL |
| 2 | HEX | 0610 | XCPRH_IRP_ DISC_FAIL |
| 2 | HEX | 0611 | XCPRH_IRP_ LOGOFF_FAILED |
| 2 | HEX | 0612 | XCPRH_TRANSFORM_ 1_ERROR |
| 2 | HEX | 0613 | XCPRH_TRANSFORM_ 4_ERR |
| 2 | HEX | 0614 | XCPRH_IRP_ NULL_DATA |
| 2 | HEX | 0615 | XCPRH_IRP_ NEG_RESPONSE |
| 2 | HEX | 0616 | XCPRH_IRP_ SWITCH_PULL_ERR |
| 2 | HEX | 0617 | XCPRH_IRP_ IOAREA_GM_ERR |
| 2 | HEX | 0619 | XCPRH_IRP_ BAD_IOAREA |
| 2 | HEX | 0620 | XCPRH_IRP_ PROTOCOL_ERR |
| 2 | HEX | 0621 | XCPRH_PIPE_ RECOVERY_FAILURE |

| Len | Type | Value | Name | Description |
|-----|------|-------|----------------------------------|-------------|
| 2 | HEX | 0622 | XCPRH_ESTAE_ SETUP_FAIL | |
| 2 | HEX | 0623 | XCPRH_ESTAE_ INVOKED | |
| 2 | HEX | 0624 | XCPRH_TIMEDOUT | |
| 2 | HEX | 0625 | XCPRH_STIMER_ SETUP_FAIL | |
| 2 | HEX | 0626 | XCPRH_STIMER_ CANCEL_FAIL | |
| 2 | HEX | 0627 | XCPRH_INCORRECT_ SVC_LVL | |
| 2 | HEX | 0628 | XCPRH_INCORRECT_ IRP_LVL | |
| 2 | HEX | 0629 | XCPRH_SERVER_ PROTOCOL_ERR | |
| 2 | HEX | 0800 | XCPRH_LENGERR | |
| 2 | HEX | 0801 | XCPRH_INVREQ | |
| 2 | HEX | 0802 | XCPRH_PGMIDERR | |
| 2 | HEX | 0803 | XCPRH_ROLDBACK | |
| 2 | HEX | 0804 | XCPRH_NOTAUTH | |
| 2 | HEX | 0805 | XCPRH_SYSDER | |
| 2 | HEX | 0806 | XCPRH_TERMERR | |
| 2 | HEX | 1000 | XCPRH_ENTRY | |
| 2 | HEX | 1001 | XCPRH_EXIT | |
| 2 | HEX | 1010 | XCEIP_ENTRY | |
| 2 | HEX | 1011 | XCEIP_EXIT | |
| 2 | HEX | 2000 | XCPRH_IRP_LOGON | |
| 2 | HEX | 2001 | XCPRH_IRP_CONN | |
| 2 | HEX | 2002 | XCPRH_IRP_DISC | |
| 2 | HEX | 2003 | XCPRH_IRP_LOGOFF | |
| 2 | HEX | 2004 | XCPRH_IRP_SWITCH | |
| 2 | HEX | 2005 | XCPRH_IRP_SWITCH_DATA | |
| 2 | HEX | 2006 | XCPRH_IRP_DATA | |
| 2 | HEX | 2007 | XCPRH_PRE_URM | |
| 2 | HEX | 2008 | XCPRH_POST_URM | |
| 2 | HEX | 2009 | XCPRH_PRE_RACROUTE | |
| 2 | HEX | 200A | XCPRH_POST_RACROUTE | |
| 2 | HEX | 0900 | XCTRI_TRA_GM_ERROR | |
| 2 | HEX | 0901 | XCTRI_TRACE_ TABLE_GM_ERROR | |
| 2 | HEX | 0902 | XCTRI_TRAP_ WA_GM_ERROR | |
| 2 | HEX | 0903 | XCTRI_GTF_ BUFFER_GM_ERROR | |
| 2 | HEX | 0904 | XCTRP_OVERLENGTH_ ENTRY | |
| 2 | HEX | 0905 | XCTRA_REQUESTED_ ENTRY | |
| 2 | HEX | 0906 | XCTRI_TIME_ WA_GM_ERROR | |
| 2 | HEX | 3000 | XCEIP_ESTAE_ SETUP_ERROR | |
| 2 | HEX | 3001 | XCEIP_ESTAE_ INVOKED | |
| 2 | HEX | 3002 | XCEIP_INV_ CTYPE_ON_INIT | |
| 2 | HEX | 3003 | XCEIP_INV_ VNUM_ON_INIT | |
| 2 | HEX | 3004 | XCEIP_INV_ ANAME_ON_INIT | |
| 2 | HEX | 3005 | XCEIP_INV_ CTYPE_ON_ALLOC | |
| 2 | HEX | 3006 | XCEIP_INV_ VNUM_ON_ALLOC | |
| 2 | HEX | 3007 | XCEIP_INV_ UTOKEN_ON_ALLOC | |
| 2 | HEX | 3008 | XCEIP_INV_ CTYPE_ON_OPEN | |
| 2 | HEX | 3009 | XCEIP_INV_ VNUM_ON_OPEN | |
| 2 | HEX | 3010 | XCEIP_INV_ UTOKEN_ON_OPEN | |
| 2 | HEX | 3011 | XCEIP_INV_ PTOKEN_ON_OPEN | |
| 2 | HEX | 3012 | XCEIP_INV_ CTYPE_ON_DPL | |
| 2 | HEX | 3013 | XCEIP_INV_ VNUM_ON_DPL | |
| 2 | HEX | 3014 | XCEIP_INV_ UTOKEN_ON_DPL | |
| 2 | HEX | 3015 | XCEIP_INV_ PTOKEN_ON_DPL | |
| 2 | HEX | 3017 | XCEIP_INV_USERID | |
| 2 | HEX | 3018 | XCEIP_PIPE_ NOT_OPEN_ON_DPL | |
| 2 | HEX | 3019 | XCEIP_PIPE_ MUST_CLOSE_ON_DPL | |
| 2 | HEX | 3020 | XCEIP_INV_ CTYPE_ON_CLOSE | |
| 2 | HEX | 3021 | XCEIP_INV_ VNUM_ON_CLOSE | |
| 2 | HEX | 3022 | XCEIP_INV_ UTOKEN_ON_CLOSE | |

| Len | Type | Value | Name | Description |
|-----|------|-------|-------------------------------------|-------------|
| 2 | HEX | 3023 | XCEIP_INV_ PTOKEN_ON_CLOSE | |
| 2 | HEX | 3024 | XCEIP_INV_ CTYPE_ON_DEALL | |
| 2 | HEX | 3025 | XCEIP_INV_ VNUM_ON_DEALL | |
| 2 | HEX | 3026 | XCEIP_INV_ UTOKEN_ON_DEALL | |
| 2 | HEX | 3027 | XCEIP_INV_ PTOKEN_ON_DEALL | |
| 2 | HEX | 3028 | XCEIP_PIPE_ NOT_CLOSED_ON_DEALL | |
| 2 | HEX | 3029 | XCEIP_RETRYING | |
| 2 | HEX | 3030 | XCEIP_SURROGATE_ CHK_FAIL_ON_DPL | |
| 2 | HEX | 4000 | XCGUR_ENTRY | |
| 2 | HEX | 4001 | XCGUR_EXIT | |
| 2 | HEX | 4002 | XCGUR_PRE_SVC | |
| 2 | HEX | 4003 | XCGUR_POST_SVC | |
| 2 | HEX | 4004 | XCGUR_RRS_ NOT_SUPPORTED | |
| 2 | HEX | 4005 | XCGUR_RRS_ERROR | |
| 2 | HEX | 4006 | XCGUR_SVC_EXCEPTION | |
| 2 | HEX | 4007 | XCGUR_GETMAIN_ERR | |

XFIOA Transformed MRO function

MACRO NAME = DFHXFIOA
 DESCRIPTIVE NAME = CICS DFHXFX TRANSFORMED MRO FUNCTION
 SHIPPING REQUEST AND REPLY DSECT
 FUNCTION = THIS MACRO GENERATES THE DSECT USED BY THE FAST PATH
 MRO FUNCTION SHIPPING TRANSFORMER (DFHXFX) TO
 FORMAT TIOA'S USED TO SEND REQUESTS AND REPLIES FROM
 ONE MRO REGION TO ANOTHER.
 INPUT = THERE ARE NO PARAMETERS ON THIS MACRO.
 OUTPUT = THE TIOA DSECT.
 EXTERNAL REFERENCES = NONE

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|--------------------------------|-----|--------------------------|---|
| (0) | | | DFHXFIOA | TIOA DSECT |
| THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REQUESTS. IT IS USED BY TRANSFORMERS 1 AND 2 ONLY. | | | | |
| (0) | FULLWORD 11.. | 4 | XRQDS (3) XRQSTART | "" TIOA HEADER "" START OF REQUEST DATA |
| COMMON REQUEST PARAMETERS | | | | |
| (C) | CHARACTER | 13 | XRQFMHAR | AREA FOR ATTACH FMH |
| (19) | CHARACTER | 2 | XRQTAG | X'FFFF' MEANS XFX TIOA |
| (1B) | CHARACTER | 9 | XRQARG0 | EIP'S ARG0 ON REQUESTS |
| (24) | HALFWORD | 2 | XRQDOFF | OFFSET OF DATA IN TIOA |
| (26) | HALFWORD | 2 | XRQPARMS (0) | GROUP SPECIFIC PARMS |
| FILE CONTROL REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 8 | XRQFCDSN | DATA SET NAME |
| (2E) | HALFWORD | 2 | XRQFCDLN | DATA LENGTH |
| (30) | HALFWORD | 2 | XRQFCKLN | RIDFLD LENGTH |
| (32) | CHARACTER | 2 | XRQFCRQD | REQUEST ID |
| (34) | HALFWORD | 2 | XRQFCKOF | OFFSET OF KEY IN TIOA |
| (36) | CHARACTER | 1 | XRQFCKDA (0) | KEY FOLLOWED BY DATA |
| | ..1. 1.1. | | XRQFCLEN | ""-XRQSTART" LEN OF FIXED PART |
| TRANSIENT DATA REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 4 | XRQTDQNM | QUEUE NAME |
| (2A) | HALFWORD | 2 | XRQTDLEN | DATA LENGTH |
| (2C) | CHARACTER | 1 | XRQTDAA (0) | DATA AREA FOR WRITES |
| | ..1. | | XRQTDLEN | ""-XRQSTART" LEN OF FIXED PART |
| TEMPORARY STORAGE REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 8 | XRQTSQNM | QUEUE NAME (8 BYTES ONLY) |
| (2E) | HALFWORD | 2 | XRQTSDLN | DATA LENGTH |
| (30) | HALFWORD | 2 | XRQTSITM | ITEM NUMBER |
| (32) | CHARACTER | 1 | XRQTSDA (0) | DATA AREA FOR WRITES |
| (32) | CHARACTER | 1 | XRQTSEND (0) | END OF FIRST PART OF TSRQ AREA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|--|-----------|-----|----------------------------|---|
| AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQTSQA +XRQTSQDLN (DATA ADDRESS + DATA LENGTH FOR WRITEQ TS OTHERWISE AT XRQTSQ16.) | | | | |
| (32) | CHARACTER | 16 | XRQTSQ16 (0) | 16 BYTE TS QUEUE NAME |
| (32) | CHARACTER | 8 | XRQTSQ8A | TS QUEUE NAME PART 1 |
| (3A) | CHARACTER | 8 | XRQTSQ8B | TS QUEUE NAME PART 2 |
| | ..11 .11. | | XRQTSLEN | ""-XRQSTART" TOTAL LENGTH OF FIXED PART |
| INTERVAL CONTROL REQUEST PARAMETERS | | | | |
| (26) | CHARACTER | 4 | XRQICTR | TRANSID |
| (2A) | CHARACTER | 4 | XRQICTE | TERMIN |
| (2E) | CHARACTER | 4 | XRQICRTR | RTRANSID |
| (32) | CHARACTER | 4 | XRQICRTE | RTERMIN |
| (36) | CHARACTER | 4 | XRQICLOT | INTERVAL OR TIME |
| (3A) | CHARACTER | 8 | XRQICQUE | QUEUE |
| (42) | CHARACTER | 8 | XRQICRQD | REQID |
| (4A) | HALFWORD | 2 | XRQICFLN | FROM LENGTH |
| (4C) | CHARACTER | 1 | XRQICFDA (0) | FROM DATA |
| | .1.. | | XRQICLEN | ""-XRQSTART" LEN OF FIXED PART |
| AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQICFDA+XRQICFLN (DATA ADDRESS + DATA LENGTH). | | | | |
| (0) | CHARACTER | 8 | XRQICUID | USERID |
| (8) | CHARACTER | 8 | XRQICSYN | Applid of System |
| (10) | CHARACTER | 8 | XRQICTRN | Terminal netname |
| THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY. | | | | |
| (0) | FULLWORD | 4 | XRPPDS (3) XRPPSTART | "" TIOA HEADER "" START OF REPLY DATA |
| COMMON REPLY PARAMETERS | | | | |
| (C) | CHARACTER | 6 | XRPEIBRC | EIP'S RETURN CODE |
| (12) | HALFWORD | 2 | XRPDFFF | OFFSET OF DATA IN TIOA |
| (14) | HALFWORD | 2 | XRPPARMS (0) | GROUP SPECIFIC PARMS |
| FILE CONTROL REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPFCDLN | DATA LENGTH |
| (16) | HALFWORD | 2 | XRPFCKLN | RIDFLD LENGTH |
| (18) | HALFWORD | 2 | XRPFNCRC (0) | NUM OF DELETED RECORDS |
| (18) | HALFWORD | 2 | XRPFCDL | UNTRUNCATED DATA LENGTH |
| (1A) | HALFWORD | 2 | XRPFMRL | MAX REC LEN FOR V FORMAT |
| (1C) | HALFWORD | 2 | XRPFCKOF | OFFSET OF KEY IN TIOA |
| (1E) | CHARACTER | 1 | XRPFCKDA (0) | KEY FOLLOWED BY DATA |
| | ...1 ..1. | | XRPFCLN | ""-XRPPSTART" LEN OF FIXED PART |
| TRANSIENT DATA REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPTDDL | DATA LENGTH |
| (16) | HALFWORD | 2 | XRPTDUDL | UNTRUNCATED DATA LENGTH |
| (18) | CHARACTER | 1 | XRPTDDA (0) | DATA AREA FOR READS |
| | 11.. | | XRPTDLEN | ""-XRPPSTART" LEN OF FIXED PART |
| TEMPORARY STORAGE REPLY PARAMETERS | | | | |
| (14) | HALFWORD | 2 | XRPTSNT | NUMITEMS |
| (16) | HALFWORD | 2 | XRPTSITM (0) | ITEM NUMBER WRITTEN |
| (16) | HALFWORD | 2 | XRPTSDLN | RETURNED DATA LENGTH |
| (18) | HALFWORD | 2 | XRPTSUDL | UNTRUNCATED DATA LENGTH |
| (1A) | CHARACTER | 1 | XRPTSQA (0) | READ DATA |
| | 111. | | XRPTSLEN | ""-XRPPSTART" LEN OF FIXED PART |
| INTERVAL CONTROL REPLY PARAMETERS | | | | |
| (14) | CHARACTER | 8 | XRPICRQD | REQID ASSGND BY MIR SYS |
| | ...1 | | XRPICLEN | ""-XRPPSTART" LEN OF FIXED PART |

XFR Function shipping request control block

```
,ARGSTG = NO IS ASSUMED
CONTROL BLOCK NAME = DFHXFRDS
DESCRIPTIVE NAME = CICS Function Request Shipping Request
                    Control Block.
MACROS = DFHXFSTG
FUNCTION =
    Defines the data transformation (XF) control block
    as used in batch and online environments.
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|------------|-----|--------------|--|
| (0) | | | DFHXFRDS | |
| (0) | FULLWORD | 4 | XFRBEGIN (2) | ALLOW FOR USER STORAGE ACCOUNTING INFORMATION |
| (8) | DBL WORD | 8 | XFRSTART (0) | XF control block - start |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT | | | | |
| SYSTEM/SESSION RELATED FIELDS | | | | |
| (8) | CHARACTER | 4 | XFRSYSNM | N(SYSID) |
| (C) | ADDRESS | 4 | XFRATCSE | A(TCTSE) |
| (10) | ADDRESS | 4 | XFRATCTE | A(TCTTE) OR 0 |
| (14) | ADDRESS | 4 | XFRATIOA | A(TIOA) OR 0 |
| (18) | CHARACTER | 4 | XFRLUCCD | LU6.2 ERROR (SENSE) CODE |
| (1C) | CHARACTER | 4 | XFRSTRAN | Server transaction code |
| (20) | BITSTRING | 1 | XFRFLAGA | |
| | 1... .. | | XFRSERVR | "X'80" Server transaction supplied |
| | ..1. | | XFRNORM | "X'40" Normal transformer to be used |
| | ...1. | | XFRSYNC | "X'20" SYNCONRETURN requested |
| | 1... | | XFRNOATN | "X'10" CONVERSE with NOATNI required |
| |1. | | XFRLINK | "X'08" LINK request |
| | | | XFRRTDST | "X'04" Dynamically routed START request |
| (22) | HALFWORD | 2 | XFRRTLNL | Length of router commarea or 0 |
| (24) | ADDRESS | 4 | XFRRTRAD | A(DFHDSRP) or 0 |
| (28) | BITSTRING | 1 | (7) | reserved |
| (30) | FULLWORD | 4 | XFRFSPEC (0) | Origin for function specific storage |
| DL/I RELATED FIELDS | | | | |
| (30) | ADDRESS | 4 | XFRAUIB | A(UIB) |
| (34) | FULLWORD | 4 | XFRDLILN | Maximum length os SETS I/O area so far |
| FILE CONTROL RELATED FIELDS | | | | |
| MACRO NAME = DFHFCENT | | | | |
| DESCRIPTIVE NAME = CICS Transformer File Control Operation | | | | |
| Table Entry DSECT. | | | | |
| (38) | FULLWORD | 4 | XFRFCENT (0) | TEMP FC OP ENTRY FOR DFHXFX |
| (38) | ADDRESS | 4 | | ADDRESS OF NEXT ENTRY |
| (3C) | CHARACTER | 4 | | NAME OF SYSTEM OWNING FILE |
| (40) | CHARACTER | 8 | | FILE NAME ON REMOTE SYSTEM |
| (48) | HALFWORD | 2 | | REQID |
| (4A) | HALFWORD | 2 | | KEYLENGTH |
| (4C) | ADDRESS | 4 | | ADDR OF RIDFLD |
| (50) | ADDRESS | 4 | | ADDR OF BUFFER FOR READ SET |
| (54) | HALFWORD | 2 | | LGTH OF BUFFER FOR READ SET |
| (56) | CHARACTER | 1 | | FIRST FLAG BYTE |
| (57) | CHARACTER | 1 | | SECOND FLAG BYTE |
| (58) | FULLWORD | 4 | (0) | MAKE LENGTH MULTIPLE OF 4 |
| This DSECT describes the entries required for remote program link | | | | |
| (30) | FULLWORD | 4 | DFHPCENT (0) | PC LINK entries begin here |
| (30) | CHARACTER | 8 | XFRPNAME | name of program |
| (38) | HALFWORD | 2 | XFRCOMML | length of commarea |
| (3A) | HALFWORD | 2 | XFRDATAL | length of data to be sent |
| (3C) | CHARACTER | 4 | XFRABCD | Abend code returned from mirror |
| (40) | BITSTRING | 1 | XFRFLAG4 | Flag byte |
| | 1... .. | | XFRHTRAN | "X'80" hex tranid present |
| | ..1. | | XFRDATAV | "X'40" valid DATALENGTH supplied |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT | | | | |
| (8) | ADDRESS | 4 | XFRASTG1 | ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH |
| (C) | ADDRESS | 4 | XFRASTG4 | ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I. |
| (10) | FULLWORD | 4 | XFRASTGL | LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS |
| FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS | | | | |
| (58) | ADDRESS | 4 | XFRPLIST | ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|--|
| (5C) | ADDRESS | 4 | XFRATABN | A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE |
| (60) | ADDRESS | 4 | XFRATAB2 | A(2ND TABLE ENTRY) - E.G. PDIR OR 0 |
| (64) | CHARACTER | 1 | XFRFORMN | THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS |
|  | .... .... |  |  | "0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS |
| |1. | | XFRTRAN2 | "2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS |
| |1. | | XFRTRAN3 | "4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES |
| |11. | | XFRTRAN4 | "6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES |
| (65) | CHARACTER | 2 | XFRARCHD | USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE |
| (67) | CHARACTER | 1 | XFRGROUP | THE GROUP IDENTIFIER FOR THE CURRENT REQUEST |
| |11. | | XFRFCGRP | "X'06" - THE CICS FC GROUP |
| | 1.. | | XFRTDGRP | "X'08" - THE CICS TD GROUP |
| | 1.1. | | XFRTSGRP | "X'0A" - THE CICS TS GROUP |
| | 1.. | | XFRICGRP | "X'10" - THE CICS IC GROUP |
| | 1.1. | | XFRJCGRP | "X'14" - THE CICS JC GROUP |
| | 1.. | | XFRDLGRP | "X'40" - THE DL/I GROUP |
| (68) | CHARACTER | 1 | XFRFUNCT | THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST |
| (69) | CHARACTER | 1 | XFRFLAGS | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFREILST | "X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP |
| |1. | | XFRDLLST | "X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I |
| |1. | | XFRDLCNT | "X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS |
| |1. | | XFRDLPLI | "X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS |
| | 1.. | | XFRATHDR | "X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA |
| |1. | | XFRLNGRN | "X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING |
| |1. | | XFRNRPLY | "X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED |
| |1. | | XFRPRCT | "X'01" THE REQUEST IS TO BE SHIPPED PROTECTED |
| (6A) | CHARACTER | 1 | XFRFLAG1 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRCLQ | "X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING |
| |1. | | XFRFCTK | "X'40" FC Token can be shipped |
| (6B) | CHARACTER | 1 | XFRFLAG2 | PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS |
| | 1... | | XFRHAENT | "X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB |
| |1. | | XFRLENFD | "X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally |
| (6C) | CHARACTER | 1 | XFRFLAG3 | PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED |
| (6D) | CHARACTER | 2 | XFRCODES (0) | FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER |
| (6D) | CHARACTER | 1 | XFRCODE1 | THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS |
| |1. | | XFR1TO4 | "4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4 |
| | 1.. | | XFR1TOC | "8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I |
| |1. | | XFR1XLNF | "2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS |
| | 111. | | XFRLNKAP | "30" Allocate request in ISP has been purged |
| | 11. | | XFRLNKAR | "28" Allocate request in ISP has been rejected |
| | 1.1. | | XFRLNKNI | "26" no sessions immediately available for allocate request |
| | 1.. | | XFRLNKPF | "24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING |
| |11. | | XFRLNKSV | "22" TRANSID invalid, we are already in session with a different mirror transaction. |
| |1. | | XFRLNKGP | "20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID |
| |1. | | XFRLNKSP | "18" SYNCONRETURN invalid, we are already in session with a mirror |
| |1. | | XFRLNKLQ | "16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT |
| | 111. | | XFRLNKAB | "14" xform 4 has processed ABCODE data |
| | 11. | | XFRLNKNA | "12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE |
| | 1.1. | | XFRLNKSF | "10" CONVERSE in DFHISP has failed |
| | 1.. | | XFRLNKSH | "8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE |
| |11. | | XFRLNKNS | "6" Type of request is not supported over LU6.1 links |
| |1. | | XFRLNKSY | "4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE |
| (6E) | CHARACTER | 1 | XFRCODE2 | THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS |
| |1. | | XFR2TO3 | "4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3 |
| | 1.. | | XFRNEGR | "8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT |
| (6F) | CHARACTER | 1 | XFRABCDE | ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM |
| (70) | ADDRESS | 4 | XFRRESR9 | resumption base for DL/I function shipping |
| (74) | ADDRESS | 4 | XFRRESRE | resumption address for DL/I function shipping |
| (78) | ADDRESS | 4 | XFRBEGOP | address of Arg0 options bytes |
| (7C) | FULLWORD | 4 | XFRARGS (0) | ORIGIN FOR ARGUMENTS |
| | .111 .1.. | | XFRLNPTH | "-XFRSTART" |

XLT Transaction list table

MODULE NAME = DFHXL TDS
 DESCRIPTIVE NAME = CICS Transaction List Table.
 TRANSACTION LIST TABLE

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | | DFHXL TDS | DUMMY SECTION - TRANSACTION LIST TABLE * |
| (0) | CHARACTER | 4 | XL TXID | TRANSACTION IDENTIFICATION |
| |1.. | | XL TEL | "(*-XL TXID)" TRANSACTION LIST TABLE ENTRY LENGTH * |

XMCD S Transaction manager TCLAS S stats

CONTROL BLOCK NAME = DFHXMCD S
 DESCRIPTIVE NAME = CICS Tclass Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains tclass statistics provided by the Transaction Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from transaction manager domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMCD S IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---|
| (0) | | | DFHXMCD S | Transaction Manager Domain Tclass Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMCL EN | Length of data area |
| | 11.. | | XMCL DE | "0012" Tclass Statistics id mask |
| (2) | ADDRESS | 2 | XMCL ID | Tclass Statistics id |
| |1 | | XMCL VRS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | XMCL DVRS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 8 | XMCTCL | Tclass name |
| (10) | FULLWORD | 4 | XMCTAT | Total attach requests for trans- actions in this tclass |
| (14) | FULLWORD | 4 | XMCP I | Transactions purged immediately because threshold reached |
| (18) | FULLWORD | 4 | XMCTQ | Transactions that had to queue but are no longer queued |
| (1C) | FULLWORD | 4 | XMCAI | Transactions accepted immediately |
| (20) | FULLWORD | 4 | XMCAAQ | Transactions accepted after queuing |
| (24) | FULLWORD | 4 | XMCPWQ | Transactions purged while queuing |
| (28) | FULLWORD | 4 | XMCMXT | Max. number of transactions allowed |
| (2C) | FULLWORD | 4 | XMCTH | Purge threshold |
| (30) | FULLWORD | 4 | XMCTID | Installed transaction definitions in this tclass |
| (34) | FULLWORD | 4 | XMCPAT | Peak active user transactions |
| (38) | FULLWORD | 4 | XMCPQT | Peak queued user transactions |
| (3C) | FULLWORD | 4 | XMCTAMA | Times at max. active |
| (40) | FULLWORD | 4 | XMCTAPT | Times at purge threshold |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|---|
| (44) | FULLWORD | 4 | XMCCAT | Current active user transactions |
| (48) | FULLWORD | 4 | XMCCQT | Current queued user transactions |
| THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT | | | | |
| (4C) | CHARACTER | 8 | XMCTQME | Total queuing time of those trans- actions that are no longer queuing |
| (54) | CHARACTER | 8 | XMCCQME | Total queuing time of those trans- actions that are still queuing |
| | .1.1 11.. | | XMCCEND | ** |
| | .1.1 11.. | | XMCCLEN | **-"XMCCLEN" Length of Tclass Stats |

XMGDS Transaction manager global stats

CONTROL BLOCK NAME = DFHXMGDS
 DESCRIPTIVE NAME = CICS Transaction Manager Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains global statistics provided by the Transaction Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from transaction manager domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | DFHXMGDS | Transaction Manager Domain Global Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMGLLEN | Length of data area |
| | 1.1. | | XMGLIDE | "0010" Transaction Manager domain id mask |
| (2) | ADDRESS | 2 | XMGLID | Transaction Manager domain id |
| |1 | | XMGLVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | XMGLDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | FULLWORD | 4 | XMGLNUM | Number of transactions (user + system) attached |
| (C) | FULLWORD | 4 | XMGLMXT | Current MAXTASK value |
| (10) | FULLWORD | 4 | XMGLCAT | Current active user transactions |
| (14) | FULLWORD | 4 | XMGLCQT | Current queued user transactions |
| (18) | FULLWORD | 4 | XMGLTAMXT | Times at MAXTASK |
| (1C) | FULLWORD | 4 | XMGLPAT | Peak active user transactions |
| (20) | FULLWORD | 4 | XMGLPQT | Peak queued user transactions |
| (24) | FULLWORD | 4 | XMGLTAT | Total active user transactions |
| (28) | FULLWORD | 4 | XMGLTDT | Total delayed user transactions note that this does not include those transactions currently queuing |

| THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT | | | | |
|---|-----------|---|----------|---|
| (2C) | CHARACTER | 8 | XMGLTQME | Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued. |
| (34) | CHARACTER | 8 | XMGLCQME | Total time spent by transactions currently queued for MXT |
| (3C) | FULLWORD | 4 | | Reserved |
| (40) | DBL WORD | 8 | XMGLTNUM | Total number of transactions at the time of the last reset |
| | .1.. 1... | | XMGLGEND | ** |

XMRDS Transaction manager transaction stats

CONTROL BLOCK NAME = DFHXMRDS
 DESCRIPTIVE NAME = CICS Transaction Statistics
 CICS level at which this module was last updated
 FUNCTION =
 This data area contains transaction statistics provided by the Transaction Manager Domain.
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.
 There is a single instance of this data block.
 LIFETIME =
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.
 STORAGE CLASS =
 LOCATION =
 The user is passed a pointer to the head of the storage block.
 INNER CONTROL BLOCKS = none
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = none
 MODULE TYPE = Domain call buffer
 EXTERNAL REFERENCES = none
 DATA AREAS = none
 CONTROL BLOCKS = from transaction manager domain
 GLOBAL VARIABLES (Macro pass) = none
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|--|
| (0) | | | DFHXMRDS | Transaction Manager Domain Transaction Statistics DSECT |
| (0) | FULLWORD | 4 | (0) | Fullword alignment |
| (0) | HALFWORD | 2 | XMRLLEN | Length of data area |
| | 1.11 | | XMRIDE | "0011" Transaction Statistics id mask |
| (2) | ADDRESS | 2 | XMRID | Transaction Statistics id |
| |1 | | XMRVERS | "X'01" Stats version number id mask |
| (4) | CHARACTER | 1 | XMRDVERS | Stats version number |
| (5) | CHARACTER | 3 | | Filler |
| (8) | CHARACTER | 4 | XMRTI | Transaction ID |
| (C) | CHARACTER | 8 | XMRPN | Program name |
| (14) | CHARACTER | 8 | XMRTCL | Tclass name |
| (1C) | CHARACTER | 8 | XMRRNAM | Remote transid |
| (24) | CHARACTER | 4 | XMRRSYS | Remote sysid |
| (28) | HALFWORD | 2 | XMRPRTY | Transaction priority |
| (2A) | CHARACTER | 1 | XMRDYN | Dynamic indicator |
| | 111. 1... | | XMRDYN | "C'Y" ...Dynamic = yes |
| | 11.1 .1.1 | | XMRDYN | "C'N" ...Dynamic = no |
| (2B) | CHARACTER | 1 | | Filler |
| (2C) | FULLWORD | 4 | XMRAC | Attach count |
| (30) | FULLWORD | 4 | XMRRC | Restart count |
| (34) | FULLWORD | 4 | XMRDLC | Dynamic local count (the number of times the transaction routing exit decided to run this transaction locally) |
| (38) | FULLWORD | 4 | XMRDRC | Dynamic remote count (the number of times the transaction routing exit decided to run this transaction remotely) |
| (3C) | FULLWORD | 4 | XMRRSC | Remote start count |
| (40) | FULLWORD | 4 | XMR SVC | Storage Violation Count |
| (44) | FULLWORD | 4 | XMRITOV | Indoubt timeout value (in minutes) |
| (48) | CHARACTER | 1 | XMRIWTOP | IndoubtWait option |
| | 111. 1... | | XMRIWTY | "C'Y" ...Indoubtwait = yes |
| | 11.1 .1.1 | | XMRIWTN | "C'N" ...Indoubtwait = no |
| (49) | CHARACTER | 1 | XMRIACTN | Indoubt action (commit or backout) |
| | 11.. ..11 | | XMRIACOM | "C'C" ...Indoubt Action = commit |
| | 11.. ..1. | | XMRIABCK | "C'B" ...Indoubt Action = backout |
| (4A) | CHARACTER | 2 | | Filler |
| (4C) | FULLWORD | 4 | XMRIWAIT | Number of indoubt waits |
| (50) | FULLWORD | 4 | XMR FATXN | Forced action due to trandef |
| (54) | FULLWORD | 4 | XMRFAIT | Forced action due to indoubt timeout |
| (58) | FULLWORD | 4 | XMRFANW | Forced action due to no wait ability |
| (5C) | FULLWORD | 4 | XMRFAOP | Forced action due to operator |
| (60) | FULLWORD | 4 | XMRFAOT | Forced action due to other |
| (64) | FULLWORD | 4 | XMRAMISM | Number of Action mismatches |
| | .11. 1... | | XMREND | "" |
| | .11. 1... | | XMRCLLEN | ""-XMRLLEN" Length of Transaction Stats |

XMRS_C Transaction restart program commarea

CICS Commarea for Transaction Restart

This control block defines the commarea passed to the user-replaceable Transaction Restart program DFHREST.

Although provided as a sample, this control block is not to be used as a general programming interface. Refer to the CICS Customisation Guide to determine its intended usage.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------------|------------------------------|
| (0) | STRUCTURE | 20 | XMRS_COMMAREA | Transaction restart commarea |
| (0) | CHARACTER | 4 | XMRS_STANDARD_HEADER | Standard commarea header |
| (0) | CHARACTER | 1 | XMRS_FUNCTION | Function (always '1') |
| (1) | CHARACTER | 2 | XMRS_COMPONENT_CODE | Component (always 'XM') |
| (3) | CHARACTER | 1 | * | Reserved |
| (4) | CHARACTER | 1 | XMRS_READ | Terminal read done |
| (5) | CHARACTER | 1 | XMRS_WRITE | Terminal write done |
| (6) | CHARACTER | 1 | XMRS_SYNCPOINT | Syncpoint done |
| (7) | CHARACTER | 1 | XMRS_RESTART | Restart (output) |
| (8) | UNSIGNED | 2 | XMRS_RESTART_COUNT | No. of previous restarts |
| (A) | CHARACTER | 2 | * | Reserved |
| (C) | CHARACTER | 4 | XMRS_ORIGINAL_ABEND_CODE | Original abend code |
| (10) | CHARACTER | 4 | XMRS_CURRENT_ABEND_CODE | Current abend code |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|--------------------------|-------------|
| 1 | CHARACTER | 1 | XMRS_TRANSACTION_RESTART | |
| 2 | CHARACTER | XM | XMRS_TRANSACTION_MANAGER | |
| 1 | CHARACTER | Y | XMRS_READ_YES | |
| 1 | CHARACTER | N | XMRS_READ_NO | |
| 1 | CHARACTER | Y | XMRS_WRITE_YES | |
| 1 | CHARACTER | N | XMRS_WRITE_NO | |
| 1 | CHARACTER | Y | XMRS_SYNCPOINT_YES | |
| 1 | CHARACTER | N | XMRS_SYNCPOINT_NO | |
| 1 | CHARACTER | Y | XMRS_RESTART_YES | |
| 1 | CHARACTER | N | XMRS_RESTART_NO | |

XQS1D Shared ts queue server cf statistics

CONTROL BLOCK NAME = DFHXQS1D
 DESCRIPTIVE NAME = CICS (XQ) Statistics for list structure.
 FUNCTION = XQ Statistics for list structure usage and access.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------------|
| (0) | | | DFHXQS1D | , XQ list structure statistics record |
| (0) | FULLWORD | 4 | S1 (0) | Start of record |
| (0) | HALFWORD | 2 | S1LEN | Length of data area |
| | | | .111 1..1 | "0121" List structure stats mask |
| (2) | ADDRESS | 2 | S1ID | List structure stats id |
| | | |1 | "X'01" DSECT version number mask |
| (4) | CHARACTER | 1 | S1DVERS | List structure stats version number |
| (5) | CHARACTER | 3 | | Reserved |

Coupling facility list structure status information.

| | | | | |
|------|-----------|----|--------------|-------------------------------------|
| (8) | CHARACTER | 16 | S1NAME (0) | Full name of list structure |
| (8) | CHARACTER | 8 | S1PREF | First part of structure name |
| (10) | CHARACTER | 8 | S1POOL | Pool name part of structure name |
| (18) | CHARACTER | 16 | S1CNNAME (0) | Name for connection to structure |
| (18) | CHARACTER | 8 | S1CNPREF | Prefix for connection name |
| (20) | CHARACTER | 8 | S1CNSYSN | Own MVS system name from CVTSNAME |
| (28) | ADDRESS | 4 | S1SIZE | Structure size (unsigned fullword) |
| (2C) | ADDRESS | 4 | S1SIZEMX | Maximum structure size |
| (30) | FULLWORD | 4 | S1HDRS | Maximum number of list headers |
| (34) | FULLWORD | 4 | S1HDRSCT | Headers used for control lists |
| (38) | FULLWORD | 4 | S1HDRSQD | Headers available for queue data |
| (3C) | FULLWORD | 4 | S1ELEMNL | Data element size as a fullword |
| (40) | ADDRESS | 4 | S1LEMPW | Data element size as power of 2 |
| (44) | ADDRESS | 4 | S1ELEMPE | Max elements per entry (for 32K) |
| (48) | FULLWORD | 4 | S1ELEMRT | Element size of entry:element ratio |
| (4C) | FULLWORD | 4 | S1ENTRRT | Entry size of entry:element ratio |

Usage statistics.

Entry and element usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

| | | | | |
|------|----------|---|----------|-----------------------------------|
| (50) | FULLWORD | 4 | S1ENTRCT | Current number of entries in use |
| (54) | FULLWORD | 4 | S1ENTRHI | Highest number of entries in use |
| (58) | FULLWORD | 4 | S1ENTRLO | Lowest number of free entries |
| (5C) | FULLWORD | 4 | S1ENTRMX | Max entries returned by IXLCONN |
| (60) | FULLWORD | 4 | S1ELEMCT | Current number of elements in use |
| (64) | FULLWORD | 4 | S1ELEMHI | Highest number of elements in use |
| (68) | FULLWORD | 4 | S1ELEMLO | Lowest number of free elements |
| (6C) | FULLWORD | 4 | S1ELEMXX | Max elements returned by IXLCONN |

List entry counts returned by IXLLIST requests.

Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent.

| | | | | |
|------|----------|---|--------------|------------------------------------|
| (70) | DBL WORD | 8 | S1USEVEC (0) | Usage vector, three pairs of words |
| (70) | FULLWORD | 4 | S1USEDCT | Number of entries on used list |
| (74) | FULLWORD | 4 | S1USEDHI | Highest entries on used list |
| (78) | FULLWORD | 4 | S1FREECT | Number of entries on free list |
| (7C) | FULLWORD | 4 | S1FREEHI | Highest entries on free list |
| (80) | FULLWORD | 4 | S1INDXCT | Number of entries in queue index |
| (84) | FULLWORD | 4 | S1INDXHI | Highest entries in queue index |

Coupling facility I/O statistics.

Statistics for each main type of CF request.

| | | | | |
|------|----------|---|---------|------------------------------------|
| (88) | FULLWORD | 4 | S1RDQCT | Read queue index entry |
| (8C) | FULLWORD | 4 | S1WRQCT | Write queue index entry |
| (90) | FULLWORD | 4 | S1DLQCT | Delete queue index entry |
| (94) | FULLWORD | 4 | S1CRLCT | Create list for a big queue |
| (98) | FULLWORD | 4 | S1DLLCT | Delete list (1 per overall delete) |
| (9C) | FULLWORD | 4 | S1RDLCT | Read list entry |
| (A0) | FULLWORD | 4 | S1RWLCT | Write list entry |
| (A4) | FULLWORD | 4 | S1RWLCT | Rewrite list entry |
| (A8) | FULLWORD | 4 | S1INQCT | Read queue index status only |
| (AC) | FULLWORD | 4 | S1INLCT | Inquire on list entry |

Statistics for internal CF requests.

| | | | | |
|------|----------|---|---------|-------------------------------------|
| (B0) | FULLWORD | 4 | S1WRACT | Write queue index adjunct area only |
|------|----------|---|---------|-------------------------------------|

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|--|
| (B4) | FULLWORD | 4 | S1RRQCT | Reread index data for full length |
| (B8) | FULLWORD | 4 | S1RRLCT | Reread list data for full length |
| (BC) | FULLWORD | 4 | S1ASYCT | Number of asynchronous requests |
| IXLLIST completion statistics indexed by internal response value. | | | | |
| (C0) | FULLWORD | 4 | S1RSP1CT | Normal response, everything OK |
| (C4) | FULLWORD | 4 | S1RSP2CT | Buffer length was too short for the data, needs full length reread |
| (C8) | FULLWORD | 4 | S1RSP3CT | No matching entry was found, indicates queue not found in index or end of queue for list |
| (CC) | FULLWORD | 4 | S1RSP4CT | Entry version did not match, indicates queue updated by another system or duplicate queue exists when attempting to create queue |
| (D0) | FULLWORD | 4 | S1RSP5CT | List authority comparison mismatch, indicates big queue was deleted |
| (D4) | FULLWORD | 4 | S1RSP6CT | Maximum list key reached, indicates max queue size or max queues reached depending on list |
| (D8) | FULLWORD | 4 | S1RSP7CT | The list structure is out of space |
| (DC) | FULLWORD | 4 | S1RSP8CT | An IXLLIST return code occurred other than those described above |
| | 111. | | S1END | **" |
| | 111. | | S1CLEN | **"-S1LEN" Length of this DSECT |

XQS2D Shared ts queue server buffer statistics

CONTROL BLOCK NAME = DFHXQS2D
 DESCRIPTIVE NAME = CICS (XQ) Statistics for queue buffer pool.
 FUNCTION = XQ Statistics for queue index buffer pool usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------------|
| (0) | | | DFHXQS2D | , XQ buffer pool statistics record |
| (0) | FULLWORD | 4 | S2 (0) | Start of record |
| (0) | ADDRESS | 2 | S2LEN | Length of data area |
| | .111 1.1. | | S2IDE | "0122" XQ buffer pool stats mask |
| (2) | ADDRESS | 2 | S2ID | XQ buffer pool stats id |
| |1 | | S2VERS | "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S2DVERS | XQ buffer pool version number |
| (5) | BITSTRING | 3 | | Reserved |

These statistics are for the queue index buffer pool, which is used to read and write queue index entries plus the associated data if the total queue size does not exceed 32K bytes. Buffers containing recently accessed queue index entries are added to a least recently used chain, which means that if another request for the same queue arrives shortly afterwards, it may be possible to optimize the processing based on the assumption that the copy in the buffer is probably already correct. If all other buffers are in used, a request for a new buffer will discard the contents of the least recently used buffer and reuse the storage as a free buffer. These statistics are returned by AXM buffer management interface. The queue server does not use some of the AXM buffer management functions (such as KEEP or PURGE) so those counters will be zero. These fields describe the current state of the buffer pool.

| | | | | |
|------|----------|---|-----------|-------------------------------|
| (8) | FULLWORD | 4 | S2BFQTY | Total buffers defined |
| (C) | FULLWORD | 4 | S2BFENTH | Number of buffers used so far |
| (10) | FULLWORD | 4 | S2BFFACTS | Active buffers owned by tasks |
| (14) | FULLWORD | 4 | S2BFLRUS | Valid buffers on LRU chain |
| (18) | FULLWORD | 4 | S2BFEMPS | Empty buffers on free chain |

The following counters start again from zero after a reset.

| | | | | |
|------|----------|---|----------|-------------------------------------|
| (1C) | FULLWORD | 4 | S2BFPWTS | Waits on buffer pool lock |
| (20) | FULLWORD | 4 | S2BFGETS | GET requests |
| (24) | FULLWORD | 4 | S2BFHITS | GET which found a valid buffer |
| (28) | FULLWORD | 4 | S2BFGFRS | GETs which used a free buffer |
| (2C) | FULLWORD | 4 | S2BFGNWS | GETs which used a new buffer |
| (30) | FULLWORD | 4 | S2BFLRS | GETs which used the LRU buffer |
| (34) | FULLWORD | 4 | S2BFLWTS | GET waits on buffer lock |
| (38) | FULLWORD | 4 | S2BFGNBS | GETs which returned no buffer |
| (3C) | FULLWORD | 4 | S2BFPUTS | PUTs (put back buffer as valid) |
| (40) | FULLWORD | 4 | S2BFKEPS | KEEPs (put back buffer as modified) |
| (44) | FULLWORD | 4 | S2BFRES | FREEs (put back buffer as empty) |
| (48) | FULLWORD | 4 | S2BFFNOS | FREE errors, buffer not owned |
| (4C) | FULLWORD | 4 | S2BFPURS | PURGEs (mark buffer invalid) |
| (50) | FULLWORD | 4 | S2BFPNFS | PURGE with no matching buffer found |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------------------------------------|-----|-----------------------------|--|
| (54) | FULLWORD .1.1 1... .1.1 1... | 4 | S2BFPNOS S2END S2CLEN | PURGE errors, buffer not owned "" ""-S2LEN" Length of this DSECT |

XQS3D Shared ts queue server storage statistics

CONTROL BLOCK NAME = DFHXQS3D
 DESCRIPTIVE NAME = CICS (XQ) Statistics for server storage.
 FUNCTION = XQ Statistics for server main storage usage.
 LIFETIME = N/A
 STORAGE CLASS = N/A
 LOCATION = N/A
 N/A
 NOTES :
 DEPENDENCIES = S/370
 MODULE TYPE = Control block definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------------------|-----|----------------|--|
| (0) | | | DFHXQS3D | , XQ main storage statistics record |
| (0) | FULLWORD | 4 | S3 (0) | Start of record |
| (0) | ADDRESS .111 1.11 | 2 | S3LEN S3IDE | Length of data area "0123" XQ main storage stats mask |
| (2) | ADDRESS.... ...1 | 2 | S3ID S3VERS | XQ main storage stats id "X'01" DSECT version number mask |
| (4) | ADDRESS | 1 | S3DVERS | XQ main storage stats version |
| (5) | BITSTRING | 3 | | Reserved |

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.
 Statistics for LOC=ANY storage pool.

| | | | | |
|------|-----------|---|----------|-------------------------------------|
| (8) | CHARACTER | 8 | S3ANYNAM | Pool name AXMPGANY |
| (10) | FULLWORD | 4 | S3ANYSIZ | Size of storage pool area |
| (14) | ADDRESS | 4 | S3ANYPTR | Address of storage pool area |
| (18) | FULLWORD | 4 | S3ANYMX | Total pages in the storage pool |
| (1C) | FULLWORD | 4 | S3ANYUS | Number of used pages in the pool |
| (20) | FULLWORD | 4 | S3ANYFR | Number of free pages in the pool |
| (24) | FULLWORD | 4 | S3ANYLO | Lowest free pages (since reset) |
| (28) | FULLWORD | 4 | S3ANYRQG | Storage GET requests |
| (2C) | FULLWORD | 4 | S3ANYRQF | Gets which failed to obtain storage |
| (30) | FULLWORD | 4 | S3ANYRQS | Storage FREE requests |
| (34) | FULLWORD | 4 | S3ANYRQC | Compress (defragmentation) attempts |

Statistics for LOC=BELOW storage pool.

| | | | | |
|------|------------------------------------|---|-----------------------------|---|
| (38) | CHARACTER | 8 | S3LOWNAM | Pool name AXMPGLOW |
| (40) | FULLWORD | 4 | S3LOWSIZ | Size of storage pool area |
| (44) | ADDRESS | 4 | S3LOWPTR | Address of storage pool area |
| (48) | FULLWORD | 4 | S3LOWMX | Total pages in the storage pool |
| (4C) | FULLWORD | 4 | S3LOWUS | Number of used pages in the pool |
| (50) | FULLWORD | 4 | S3LOWFR | Number of free pages in the pool |
| (54) | FULLWORD | 4 | S3LOWLO | Lowest free pages (since reset) |
| (58) | FULLWORD | 4 | S3LOWRQG | Storage GET requests |
| (5C) | FULLWORD | 4 | S3LOWRQF | Gets which failed to obtain storage |
| (60) | FULLWORD | 4 | S3LOWRQS | Storage FREE requests |
| (64) | FULLWORD .11. 1... .11. 1... | 4 | S3LOWRQC S3END S3CLEN | Compress (defragmentation) attempts "" ""-S3LEN" Length of this DSECT |

XRH Extended recovery facility

CONTROL BLOCK NAME = DFHXRHPS
 DESCRIPTIVE NAME = CICS - Extended Recovery Facility
 XRP - Health Data Definition

FUNCTION =
 DFHXRHPS contains the PL/S structure that describes the XRF health data managed by CICS.
 XRF health data can be set by

1. DFHXRA
2. DFHXRC
3. DFHXRCP
4. DFHXRSP

DFHXRC, the health exit routine, passes XRF health data to the CAVM from whence it is written as part of the CAVM status data.

LIFETIME =
 There is only one instance of the control block - it forms part of XRP static storage which is allocated by DFHSIB1.

STORAGE CLASS =
 The control block forms part of XRP static storage.

LOCATION =
 The control block is addressed from XRSAXRHD in XRP static storage.

INNER CONTROL BLOCKS =
 There are no inner control blocks.

NOTES :
 DEPENDENCIES =
 S/370

RESTRICTIONS =
 There are no restrictions.

MODULE TYPE =
 Control block definition.
 PLS/3

EXTERNAL REFERENCES =
 None.

DATA AREAS =
 None.

CONTROL BLOCKS =
 None.

GLOBAL VARIABLES (Macro pass) =
 None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 52 | DFHXRHPS | |
| (0) | CHARACTER | 8 | XRHDPFX | - prefix |
| (8) | CHARACTER | 16 | * | - "general" values |
| (8) | CHARACTER | 8 | XRHDGAPL | - generic applid |
| (10) | CHARACTER | 8 | XRHDSAPL | - specific applid |
| (18) | CHARACTER | 4 | * | - "control" values |
| (18) | CHARACTER | 1 | XRHD TAK | - TAKEOVER |
| (19) | CHARACTER | 1 | XRHDSUR | - SURVEILLANCE |
| (1A) | HALFWORD | 2 | * | - not used |
| (1C) | CHARACTER | 16 | * | - "control" values |
| (1C) | FULLWORD | 4 | XRHDADI | - ADI |
| (20) | FULLWORD | 4 | XRHDJDI | - JESDI |
| (24) | FULLWORD | 4 | XRHDPDI | - PDI |
| (28) | FULLWORD | 4 | XRHDHBI | - heartbeat interval |
| (2C) | CHARACTER | 8 | * | - "clock" data |
| (2C) | FULLWORD | 4 | XRHDCLK1 | - "clock" for DFHXRSP - CICS TCB "time stamp" |
| (30) | FULLWORD | 4 | XRHDCLK2 | - "clock" for DFHXRC - CAVM TCB "time stamp" |
| (34) | CHARACTER | | XRHDEND | |

Error data definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------|-----------------------------|
| (0) | STRUCTURE | 72 | XRHE | |
| (0) | FULLWORD | 4 | XRHDNRER | - total number |
| (4) | FULLWORD | 4 | XRHDIRER | - latest error - index to * |
| (8) | CHARACTER | 8 | XRHDRERR (8) | - errors |
| (8) | CHARACTER | 4 | XRHDDOMI | - domain id |
| (C) | CHARACTER | 4 | XRHDERRI | - error id |

Extension descriptor

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | 8 | XRHX | |
| (0) | CHARACTER | 4 | * | - not used - 0 |
| (4) | HALFWORD | 2 | XRHXGN | - no. global elements |
| (6) | CHARACTER | 2 | * | - not used - 0 |
| (8) | CHARACTER | | XRHXEND | |

Health work element

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---|
| (0) | STRUCTURE | 84 | XRHW | |
| (0) | ADDRESS | 4 | XRHWNEXT | Chain (when free) |
| (0) | BITSTRING | 2 | XRHWFLG | Flags (when in use) |
| | 1... | | XRHWFSET | Data already passed to CAVM surveillance. |
| (2) | BITSTRING | 2 | * | Not used |
| (4) | CHARACTER | 72 | XRHWE | Error data |
| (4C) | CHARACTER | 8 | XRHWX | Extension data |
| (54) | CHARACTER | | XRHWEND | Start of global data |

Global element definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-----------------------|
| (0) | STRUCTURE | * | XRHG | |
| (0) | CHARACTER | 8 | XRHGP | Prefix |
| (0) | HALFWORD | 2 | XRHGLTH | Total length of entry |
| (2) | BITSTRING | 2 | XRHGFLG | Flags |
| | 1... | | XRHGfalt | - created when alt. |
| (4) | CHARACTER | 4 | XRHGDOMI | Domain id |
| (8) | CHARACTER | * | XRHGDATA | Data |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|--------------|
| (0) | STRUCTURE | * | XRHGD | Data part |
| (0) | CHARACTER | 4 | XRHGDP | Prefix |
| (0) | HALFWORD | 2 | XRHGDDLN | Data length |
| (2) | HALFWORD | 2 | * | Reserved - 0 |
| (4) | CHARACTER | * | XRHGDTXT | Data text |

XRS XRF static storage definition

CONTROL BLOCK NAME = DFHXRSPS
 DESCRIPTIVE NAME = CICS (XRF) Static Storage Definition
 FUNCTION =
 DFHXRSPS defines the XRF static storage area managed by CICS and referred to as XRP static storage.
 XRP static storage contains
 1. the communications area for DFHXRB and DFHXRSP
 2. ECBs used to control the progress of alternate CICS before, during and after takeover
 3. system status data for active CICS
 4. system status data for alternate CICS
 5. system health data
 System status data for active CICS is maintained by alternate CICS and contains
 1. status data - e.g. signed on / off
 2. action flags - e.g. heartbeat overdue
 2. action modifier flags - e.g. message sent
 System status data for alternate CICS is maintained by active CICS and is very similar in content to system status data for active CICS.
 The structure XRS# provides the common definition for system status data.
 The structure DFHXRHPS, contained in DFHXRHPS, provides the definition for system health data.
 LIFETIME =
 There is only one instance of the control block. It is allocated by DFHXRA in response to a DFHXRC TYPE=INITIALIZE call in DFHSIC1.
 STORAGE CLASS =
 The control block is allocated by DFHSIC1.
 LOCATION =
 The control block is addressed from SSAXRP in the static storage address list.
 INNER CONTROL BLOCKS =
 XRP static storage contains inner control blocks. These are
 1. system status data for active CICS
 2. system status data for alternate CICS
 3. system health data
 NOTES :
 DEPENDENCIES =
 S/370
 RESTRICTIONS =
 There are no restrictions.
 MODULE TYPE =
 Control block definition.
 EXTERNAL REFERENCES =
 None.
 DATA AREAS =
 None.
 CONTROL BLOCKS =
 None.
 GLOBAL VARIABLES (Macro pass) =
 None.
 DFHXRP - Static Storage Definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 176 | DFHXRSPS | |
| ... general values ... | | | | |
| (0) | CHARACTER | 12 | XRSGV | General Values |
| (0) | ADDRESS | 4 | XRSSXRSA | Status area anchor |
| (4) | CHARACTER | 4 | * | Reserved |
| (8) | CHARACTER | 1 | XR SXRF | - function |
| (9) | CHARACTER | 1 | XR SXRSNS | - signon |
| (A) | CHARACTER | 2 | * | Reserved |
| ... pointers ... | | | | |
| (C) | CHARACTER | 16 | XR SAX | Pointers |
| (C) | ADDRESS | 4 | XR SAXRS0 | - A(status data - act) |
| (10) | ADDRESS | 4 | XR SAXRS1 | - A(status data - alt 1) |
| (14) | ADDRESS | 4 | XR SAXRS2 | - A(status data - alt 2) |
| (18) | ADDRESS | 4 | XR SAXRHD | - A(health data) |
| ... DFHXRB / DFHXRSP communication area ... | | | | |
| (1C) | CHARACTER | 4 | XR SW | DFHXRB / DFHXRSP comm area |
| (1C) | ADDRESS | 4 | XR SWECHN | - work element queue |
| ... Event Control Blocks ... | | | | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------------|
| (20) | CHARACTER | 16 | XRSTI | Takeover Initiated |
| (20) | CHARACTER | 4 | XRSTIPFX | - eye catcher |
| (24) | CHARACTER | 4 | XRSTIECB | - TI ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSTIWT | - wait/post bit |
| (24) | BITSTRING | 2 | * | Reserved |
| (27) | BITSTRING | 1 | XRSTIRC | - return code |
| (28) | CHARACTER | 8 | XRSTITOD | - time TI ECB posted |
| (30) | CHARACTER | 16 | XRSIA | Incipient Active |
| (30) | CHARACTER | 4 | XRSIAPFX | - eye catcher |
| (34) | CHARACTER | 4 | XRSIAECB | - IA ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSIAWT | - wait/post bit |
| (34) | BITSTRING | 2 | * | Reserved |
| (37) | BITSTRING | 1 | XRSIARC | - return code |
| (38) | CHARACTER | 8 | XRSIATOD | - time IA ECB posted |
| (40) | CHARACTER | 16 | XRSTC | Takeover Completed |
| (40) | CHARACTER | 4 | XRSTCPFX | - eye catcher |
| (44) | CHARACTER | 4 | XRSTCECB | - TC ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSTCWT | - wait/post bit |
| (44) | BITSTRING | 2 | * | Reserved |
| (47) | BITSTRING | 1 | XRSTCRC | - return code |
| (48) | CHARACTER | 8 | XRSTCTOD | - time TC ECB posted |
| (50) | CHARACTER | 16 | XRSRA | RSD Available |
| (50) | CHARACTER | 4 | XRSRAPFX | - eye catcher |
| (54) | CHARACTER | 4 | XRSRAECB | - RA ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSRAWT | - wait/post bit |
| (54) | BITSTRING | 2 | * | Reserved |
| (57) | BITSTRING | 1 | XRSRARC | - return code |
| (58) | CHARACTER | 8 | XRSRATOD | - time RA ECB posted |
| (60) | CHARACTER | 16 | XRSSS | Synchronized wrt Signoff |
| (60) | CHARACTER | 4 | XRSSSPFX | - eye catcher |
| (64) | CHARACTER | 4 | XRSSSECB | - SS ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSSSWT | - wait/post bit |
| (64) | BITSTRING | 2 | * | Reserved |
| (67) | BITSTRING | 1 | XRSSSRC | - return code |
| (68) | CHARACTER | 8 | XRSSSTOD | - time SS ECB posted |
| (70) | CHARACTER | 16 | XRSSST | Synchronized wrt Termination |
| (70) | CHARACTER | 4 | XRSSTPFX | - eye catcher |
| (74) | CHARACTER | 4 | XRSSTECB | - ST ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSSWT | - wait/post bit |
| (74) | BITSTRING | 2 | * | Reserved |
| (77) | BITSTRING | 1 | XRSSTRC | - return code |
| (78) | CHARACTER | 8 | XRSSTTOD | - time ST ECB posted |
| (80) | CHARACTER | 16 | XRSSQS | Quiesce Surveillance |
| (80) | CHARACTER | 4 | XRSSQSPFX | - eye catcher |
| (84) | CHARACTER | 4 | XRSSQSECB | - QS ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSSQSWT | - wait/post bit |
| (84) | BITSTRING | 2 | * | Reserved |
| (87) | BITSTRING | 1 | XRSSQSRC | - return code |
| (88) | CHARACTER | 8 | XRSSQSTOD | - time QS ECB posted |
| (90) | CHARACTER | 16 | XRSSD | Shut Down |
| (90) | CHARACTER | 4 | XRSSDPFX | - eye catcher |
| (94) | CHARACTER | 4 | XRSSDECB | - SD ECB (CICS posted) |
| | 1... .. | | * | Reserved |
| | .1.. .. | | XRSSDWT | - wait/post bit |
| (94) | BITSTRING | 2 | * | Reserved |
| (97) | BITSTRING | 1 | XRSSDRC | - return code |
| (98) | CHARACTER | 8 | XRSSDTOD | - time SD ECB posted |

... system health data ...

| | | | | |
|------|-----------|----|----------|-----------------|
| (A0) | CHARACTER | 16 | XRSH | |
| (A0) | CHARACTER | 8 | XRSHGAPL | Generic applid |
| (A8) | CHARACTER | 8 | XRSHSAPL | Specific applid |
| (B0) | CHARACTER | | DFHXRSND | |

Anchor area addressed by XRSSXRSA in static area
 Note: XRSA MUST end on a word boundary such that the XRS#
 status areas that follow are also word aligned.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 84 | XRSA | |
| (0) | CHARACTER | 8 | XRSAPFX | - eye catcher |
| (8) | FULLWORD | 4 | XRSALN | Total area length |
| (C) | ADDRESS | 4 | *(4) | QQQQ space for XRSAXRS0.. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|------------------------|
| (1C) | FULLWORD | 4 | XRSAGMAX | Global data area size |
| (20) | CHARACTER | 8 | XRSASF | Free health elements |
| (20) | ADDRESS | 4 | XRSAFREE | First free hwe |
| (24) | FULLWORD | 4 | XRSAFIDN | Guard for CDS |
| (28) | ADDRESS | 4 | XRSASHRD | Transferred hwe |
| (2C) | ADDRESS | 4 | XRSACAVM | CAVM's hwe |
| (30) | ADDRESS | 4 | XRSAPTA | Program name table adr |
| (34) | CHARACTER | 4 | XRSAMVID | MVS SMF id. |
| (38) | CHARACTER | 4 | XRSAJSID | JES subsystem id. |
| (3C) | CHARACTER | 8 | XRSASPLX | XCF Sysplex name |
| (44) | CHARACTER | 8 | XRSASNAM | MVS System name |
| (4C) | CHARACTER | 4 | XRSASTOK | MVS System instance |
| (50) | CHARACTER | 4 | * | Status bytes |
| (50) | BITSTRING | 1 | XRSASIND | MVS System status |
| | | | 1... .. | ...XCF services avail |
| | | | .111 1111 | * |
| (51) | CHARACTER | 3 | * | Reserved |
| (54) | CHARACTER | | * | Reserved |
| | | | * | force word alignment |

DFHXRP - System Status Definition

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------------|
| (0) | STRUCTURE | 76 | XRS# | Data for ... |
| (0) | CHARACTER | 8 | XRS#PFX | - eye catcher |
| (8) | FULLWORD | 4 | XRS#DI | - delay interval |
| (C) | CHARACTER | 12 | * | - status (wrt CAVM TCB) |
| (C) | FULLWORD | 4 | XRS#INS1 | - instance number |
| (10) | FULLWORD | 4 | XRS#VER1 | - version number |
| (14) | CHARACTER | 4 | * | - flags |
| | | | 1... .. | XRS#SON1 |
| | | | .1. | XRS#HBO1 |
| (14) | BITSTRING | 3 | * | Reserved |
| (18) | CHARACTER | 20 | * | - status (wrt CICS TCB) |
| (18) | FULLWORD | 4 | XRS#INS2 | - instance number |
| (1C) | FULLWORD | 4 | XRS#VER2 | - version number |
| (20) | CHARACTER | 8 | XRS#APL2 | - specific applid |
| (28) | CHARACTER | 4 | * | - flags |
| | | | 1... .. | XRS#SON2 |
| (28) | BITSTRING | 3 | * | Reserved |
| (2C) | FULLWORD | 4 | XRS#NSON | - sign on count |
| (30) | CHARACTER | 8 | * | - Write to Operator |
| (30) | CHARACTER | 4 | XRS#ECB | - WTOR ECB (OS posted) |
| | | | 1... .. | XRS#WAIT |
| | | | .1. | XRS#POST |
| (30) | BITSTRING | 3 | * | Reserved |
| (34) | FULLWORD | 4 | XRS#MID | - identification number |
| (38) | CHARACTER | 3 | XRS#AFL | - action flags |
| | | | 1... .. | XRS#HBRS |
| | | | .1. | XRS#HBOD |
| | | | .1. | XRS#RQTP |
| | | | ...1 | XRS#RQTG |
| | | | 1.. | XRS#INTK |
| | | |1. | XRS#PSN |
| | | |1. | XRS#PSFN |
| | | |1 | XRS#PSFA |
| (39) | | | 1... .. | XRS#ATCX |
| (39) | BITSTRING | 1 | * | Reserved |
| (3B) | CHARACTER | 1 | XRS#MFL | - action modifier flags |
| | | | 1... .. | XRS#SONP |
| | | | .1. | XRS#SOFI |
| | | | .1. | XRS#ATER |
| | | | ...1 | XRS#6X16 |
| | | | ...1 | XRS#6416 |
| | | | ...1 | XRS#6516 |
| | | | 1.. | XRS#6X18 |
| | | | 1.. | XRS#6418 |
| | | | 1.. | XRS#6518 |
| | | |1. | XRS#DUMP |
| | | |11 | * |
| (3C) | CHARACTER | 16 | * | Reserved |
| (3C) | CHARACTER | 8 | * | - TOD clock difference |
| (3C) | FULLWORD | 4 | XRS#LBD1 | - wrt CAVM TCB |
| (40) | FULLWORD | 4 | XRS#UBD1 | - lower bound |
| (44) | CHARACTER | 8 | * | - upper bound |
| (44) | FULLWORD | 4 | XRS#LBD2 | - wrt CICS TCB |
| (48) | FULLWORD | 4 | XRS#UBD2 | - lower bound |
| | | | | - upper bound |

Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|----------|--------------------------|
| 1 | CHARACTER | N | XRSXRNO | - not signed on |
| 1 | CHARACTER | A | XRSXRACT | - signed on as active |
| 1 | CHARACTER | B | XRSXRALT | - signed on as alternate |
| 1 | CHARACTER | A | XRSTAKEA | - TAKEOVER=AUTOMATIC |
| 1 | CHARACTER | M | XRSTAKEM | - TAKEOVER=MANUAL |
| 1 | CHARACTER | C | XRSTAKEC | - TAKEOVER=COMMAND |
| 1 | CHARACTER | Y | XRSSURON | - SURVEILLANCE=ON |
| 1 | CHARACTER | N | XRSSUROF | - SURVEILLANCE=OFF |
| 0 | BIT | 1 | XRS#ON | - action required |
| 0 | BIT | 0 | XRS#OFF | - action completed |

XRW XRF work element definition

| |
|--|
| <p>CONTROL BLOCK NAME = DFHXRWPS DESCRIPTIVE NAME = CICS (XRF) Work Element Definition FUNCTION = DFHXRWPS defines the XRF work elements managed by CICS. XRF work elements are used to pass information from DFHXRFB, the notify exit program which runs under the CAVM TCB, to DFHXRSP, the surveillance program which runs under the CICS TCB. The information passed from DFHXRFB to DFHXRSP, and the action taken by DFHXRSP, depends on the event notified to DFHXRFB by the CAVM.</p> <p>LIFETIME = XRF work elements are created by DFHXRFB and are destroyed by DFHXRSP.</p> <p>STORAGE CLASS = XRF work elements are allocated from OS storage.</p> <p>LOCATION = Two work element chains exist. 1. The first chain, addressed from XRSWECHN in XRP static storage, contains those elements created by DFHXRFB ... but ... not yet seen by DFHXRSP - elements appear reverse order of creation. 2. The second chain, addressed from DFHXRSP LIFO storage, contains those elements seen ... but ... not yet processed by DFHXRSP; elements appear in order of creation.</p> <p>INNER CONTROL BLOCKS = There are no inner control blocks.</p> <p>NOTES :</p> <p>DEPENDENCIES = S/370</p> <p>RESTRICTIONS = There are no restrictions.</p> <p>MODULE TYPE = Control block definition.</p> <p>EXTERNAL REFERENCES = None.</p> <p>DATA AREAS = None.</p> <p>CONTROL BLOCKS = None.</p> <p>GLOBAL VARIABLES (Macro pass) = None.</p> |
|--|

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------|---------------------------|
| (0) | STRUCTURE | 28 | DFHXRWPS | XRP work element |
| (0) | FULLWORD | 4 | XRWETRRQ | - request - for trace |
| (0) | UNSIGNED | 1 | XRWERQ | - request |
| (1) | BITSTRING | 1 | XRWERQM | - request modifier |
| | 1... .. | | XRWERQIM | - implicit request |
| | .1... .. | | XRWERQDU | - DUMP=YES specified |
| | ..1. | | XRWERQMD | - MVS system gone |
| | ...1 1111 | | * | Reserved |
| (2) | BITSTRING | 2 | * | Reserved |
| (4) | ADDRESS | 4 | XRWECHN | - A(next work element) |
| (8) | ADDRESS | 4 | XRWEASD | - A(system status data) |
| (C) | FULLWORD | 4 | XRWEINS | - instance number |
| (10) | FULLWORD | 4 | XRWEVER | - version number |
| (14) | CHARACTER | 8 | XRWEAPL | - specific applid |
| (14) | FULLWORD | 4 | XRWELBD | - TOD clock - lower bound |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|----------|-----|------------|---------------------------|
| (14) | FULLWORD | 4 | XRWEHBL | - #(secs heartbeat late) |
| (14) | FULLWORD | 4 | XRWEABC | - abend code (ex CAVM) |
| (18) | FULLWORD | 4 | XRWEUBD | - TOD clock - upper bound |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|-----------------------------|
| 1 | DECIMAL | 1 | XRWESON | - signon |
| 1 | DECIMAL | 2 | XRWESOFN | - signoff normal |
| 1 | DECIMAL | 3 | XRWESOFA | - signoff abnormal |
| 1 | DECIMAL | 7 | XRWECKDC | - TOD clock difference |
| 1 | DECIMAL | 8 | XRWEIHRC | - health response |
| 1 | DECIMAL | 9 | XRWEHBOD | - heartbeat overdue |
| 1 | DECIMAL | 10 | XRWEHBRS | - heartbeat resumed |
| 1 | DECIMAL | 15 | XRWERQTK | - request takeover |
| 1 | DECIMAL | 16 | XRWEICPA | - incipient active |
| 1 | DECIMAL | 17 | XRWEACTV | - active |
| 1 | DECIMAL | 18 | XRWECKAS | - TOD clock wrt signoff |
| 1 | DECIMAL | 19 | XRWECKAT | - TOD clock wrt termination |
| 1 | DECIMAL | 24 | XRWEFAIL | - CAVM failure |
| 1 | DECIMAL | 25 | XRWEINVL | - invalidated |

ZCCPS CICS client

MODULE NAME = DFHZCCPS
 DESCRIPTIVE NAME = CICS Client control blocks
 This copybook provides the declarations and structures
 necessary for the CCIN and CTIN transactions.

NOTES :

DEPENDENCIES = S/390

=====

Data for CICS client CCIN transaction input

=====

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------|--------------------|
| (0) | STRUCTURE | 12 | R | Receive parameters |
| (0) | CHARACTER | 12 | CCIN_HEADER | |
| (0) | FULLWORD | 4 | CCIN_LEN | |
| (4) | UNSIGNED | 1 | CCIN_GROUP | |
| (5) | UNSIGNED | 1 | CCIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CCIN_VERSION | |
| (7) | UNSIGNED | 1 | CCIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CCIN_REASON | |
| (A) | UNSIGNED | 2 | CCIN_PARMNUM | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------|-------------|
| (0) | STRUCTURE | * | CCIN_APPLID_PARM | |
| (0) | FULLWORD | 4 | CCIN_APPLID_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_APPLID_PARM_TYPE | |
| (5) | CHARACTER | * | CCIN_APPLID | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------------|-------------|
| (0) | STRUCTURE | * | CCIN_CODEPAGE_PARM | |
| (0) | FULLWORD | 4 | CCIN_CODEPAGE_LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_CODEPAGE_PARM_TYPE | |
| (5) | CHARACTER | * | CCIN_CODEPAGE | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|--------------------------|-------------|
| (0) | STRUCTURE | 8 | CCIN_CAPABILITIES_PARM | |
| (0) | FULLWORD | 4 | CCIN_CAPABILITIES_LENGTH | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---|-----|---|-------------|
| (4) | UNSIGNED | 1 | CCIN_CAPABILITIES_ PARM_TYPE | |
| (5) | BITSTRING 1111 11.. .... ..1. .... ....1 | 1 | CCIN_ENVIRON_ TYPE * CCIN_EBCDIC CCIN_BIGENDIAN | |
| (6) | BITSTRING | 2 | CCIN_CLIENT_ CAPABILITIES | |
| (6) | BITSTRING 1... .... ..1. .... ...1 1111 | 1 | * CCIN_EXIT_ PROCESSING CCIN_TRANSLATE_ CAPABLE CCIN_DELETE_ ENTRIES CCIN_TCTUA_ COMMAREA * | |
| (7) | BITSTRING | 1 | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 9 | CCIN_SECURITY_ PARM | |
| (0) | FULLWORD | 4 | CCIN_SECURITY_ LENGTH | |
| (4) | UNSIGNED | 1 | CCIN_SECURITY_ PARM_TYPE | |
| (5) | UNSIGNED | 1 | CCIN_ECIATTACH_ USERID | |
| (6) | UNSIGNED | 1 | CCIN_ECIATTACH_ PASSWORD | |
| (7) | UNSIGNED | 1 | CCIN_EPIATTACH_ USERID | |
| (8) | UNSIGNED | 1 | CCIN_EPIATTACH_ PASSWORD | |

=====
 Data for CICS client CCIN transaction output
 =====

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------|-----------------|
| (0) | STRUCTURE | 12 | S | Send parameters |
| (0) | CHARACTER | 12 | CCIN_HEADER | |
| (0) | FULLWORD | 4 | CCIN_LEN | |
| (4) | UNSIGNED | 1 | CCIN_GROUP | |
| (5) | UNSIGNED | 1 | CCIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CCIN_VERSION | |
| (7) | UNSIGNED | 1 | CCIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CCIN_REASON | |
| (A) | UNSIGNED | 2 | CCIN_PARMNUM | |

=====
 Data for CICS client CTIN transaction input
 =====

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------|------------------|
| (0) | STRUCTURE | 12 | IN | Input parameters |
| (0) | CHARACTER | 12 | CTIN_HEADER | |
| (0) | FULLWORD | 4 | CTIN_LEN | |
| (4) | UNSIGNED | 1 | CTIN_GROUP | |
| (5) | UNSIGNED | 1 | CTIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CTIN_VERSION | |
| (7) | UNSIGNED | 1 | CTIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CTIN_REASON | |
| (A) | UNSIGNED | 2 | CTIN_PARMNUM | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------------|-------------|
| (0) | STRUCTURE | * | CTIN_NETNAME_ PARM | |
| (0) | FULLWORD | 4 | CTIN_NETNAME_ LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_NETNAME_ PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_NETNAME | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------------|-------------------------------|
| (0) | STRUCTURE | * | CTIN_MODELID_PARM | |
| (0) | FULLWORD | 4 | CTIN_MODELID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_MODELID_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_MODELID | |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | * | CTIN_CODEPAGE_PARM | |
| (0) | FULLWORD | 4 | CTIN_CODEPAGE_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_CODEPAGE_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_CODEPAGE | |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | * | CTIN_APPLID_PARM | |
| (0) | FULLWORD | 4 | CTIN_APPLID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_APPLID_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_APPLID | |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | * | CTIN_TERMID_PARM | |
| (0) | FULLWORD | 4 | CTIN_TERMID_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMID_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_TERMID | |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | 6 | CTIN_TERMSOC_PARM | |
| (0) | FULLWORD | 4 | CTIN_TERMSOC_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMSOC_PARM_TYPE | |
| (5) | UNSIGNED | 1 | CTIN_TERMSOC | signon capability |
| | 1... .. | | CTIN_TERMSOC_IND | 1 - required 0 - not required |

```

=====
Data for CICS client CTIN transaction output
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------------|-------------------|
| (0) | STRUCTURE | 12 | OUT | Output parameters |
| (0) | CHARACTER | 12 | CTIN_HEADER | |
| (0) | FULLWORD | 4 | CTIN_LEN | |
| (4) | UNSIGNED | 1 | CTIN_GROUP | |
| (5) | UNSIGNED | 1 | CTIN_FUNCTION | |
| (6) | UNSIGNED | 1 | CTIN_VERSION | |
| (7) | UNSIGNED | 1 | CTIN_RESPONSE | |
| (8) | UNSIGNED | 2 | CTIN_REASON | |
| (A) | UNSIGNED | 2 | CTIN_PARMNUM | |
| | | | | |
| Offset Hex | Type | Len | Name (Dim) | Description |
| (0) | STRUCTURE | * | CTIN_TERMDetails_PARM | |
| (0) | FULLWORD | 4 | CTIN_TERMDetails_LENGTH | |
| (4) | UNSIGNED | 1 | CTIN_TERMDetails_PARM_TYPE | |
| (5) | CHARACTER | * | CTIN_TERMDetails | |

Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|----------------------------------|-------------|
| 1 | DECIMAL | 1 | CCIN_CLIENT_ FUNCTION | |
| Constants for ccin_ function | | | | |
| 1 | DECIMAL | 1 | CCIN_CLIENT_ INSTALL_REQUEST | |
| 1 | DECIMAL | 2 | CCIN_CLIENT_ INSTALL_RESPONSE | |
| 1 | DECIMAL | 3 | CCIN_CLIENT_ UNINSTALL_REQUEST | |
| Constants for CCIN parameter types | | | | |
| 1 | DECIMAL | 1 | CCIN_APPLID_TYPE | |
| 1 | DECIMAL | 3 | CCIN_CODEPAGE_TYPE | |
| 1 | DECIMAL | 4 | CCIN_CAPABILITIES_TYPE | |
| 1 | DECIMAL | 9 | CCIN_SECURITY_TYPE | |
| Constants for ccin_ response | | | | |
| 1 | DECIMAL | 0 | CCIN_NORMAL | |
| 1 | DECIMAL | 1 | CCIN_EXCEPTION | |
| 1 | DECIMAL | 2 | CCIN_ERROR | |
| 1 | DECIMAL | 4 | CCIN_DISASTER | |
| Constants for ccin_ reason | | | | |
| 2 | DECIMAL | 0 | CCIN_OK | |
| 2 | DECIMAL | 1 | CCIN_ALREADY_INSTALLED | |
| 2 | DECIMAL | 4 | CCIN_INSTALL_CANCELLED | |
| 2 | DECIMAL | 5 | CCIN_SERVER_BUSY | |
| 2 | DECIMAL | 6 | CCIN_INVALID_REQUEST | |
| 2 | DECIMAL | 7 | CCIN_INVALID_CODEPAGE | |
| ===== | | | | |
| Declare the CTIN header block and response and reason codes | | | | |
| ===== | | | | |
| Constants for ctin_ group | | | | |
| 1 | DECIMAL | 1 | CTIN_CLIENT_ FUNCTION | |
| Constants for ctin_ function | | | | |
| 1 | DECIMAL | 17 | CTIN_TERMINAL_ INSTALL_REQUEST | |
| 1 | DECIMAL | 18 | CTIN_TERMINAL_ INSTALL_RESPONSE | |
| 1 | DECIMAL | 19 | CTIN_TERMINAL_ UNINSTALL_REQUEST | |
| Constants for CTIN parameter types | | | | |
| 1 | DECIMAL | 1 | CTIN_APPLID_TYPE | |
| 1 | DECIMAL | 3 | CTIN_CODEPAGE_TYPE | |
| 1 | DECIMAL | 5 | CTIN_NETNAME_TYPE | |
| 1 | DECIMAL | 6 | CTIN_MODELID_TYPE | |
| 1 | DECIMAL | 7 | CTIN_TERMDETAILS_TYPE | |
| 1 | DECIMAL | 8 | CTIN_TERMID_TYPE | |
| 1 | DECIMAL | 10 | CTIN_TERMSOC_TYPE | |
| Constants for ctin_ response | | | | |
| 1 | DECIMAL | 0 | CTIN_NORMAL | |
| 1 | DECIMAL | 1 | CTIN_EXCEPTION | |
| 1 | DECIMAL | 2 | CTIN_ERROR | |
| 1 | DECIMAL | 4 | CTIN_DISASTER | |
| Constants for ctin_ reason | | | | |
| 2 | DECIMAL | 1 | CTIN_ALREADY_INSTALLED | |
| 2 | DECIMAL | 2 | CTIN_UNKNOWN_TERMINAL | |
| 2 | DECIMAL | 3 | CTIN_UNKNOWN_MODEL | |
| 2 | DECIMAL | 4 | CTIN_INSTALL_CANCELLED | |
| 2 | DECIMAL | 5 | CTIN_SERVER_BUSY | |
| 2 | DECIMAL | 6 | CTIN_INVALID_REQUEST | |
| 2 | DECIMAL | 7 | CTIN_INVALID_CODEPAGE | |
| Constants for ctin_ o_type | | | | |
| 1 | DECIMAL | 7 | CTIN_O_TERM_BPS | |

ZCQ Builder parameter set

CONTROL BLOCK NAME = DFHZCQPS
 DESCRIPTIVE NAME = CICS Builder Parameter Set.
 FUNCTION =
 STORAGE CLASS = Any.
 LOCATION = Via task registers.
 INNER CONTROL BLOCKS =
 There is a root section, containing an overlay-id, and one of several overlays.

NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = ZC BIND-stub.
 GLOBAL VARIABLES (Macro pass) = no public globals.

The builder parameter set data areas (ZCQPS) are used when creating a terminal control table resource dynamically, for example, by resource definition online (RDO). They are allocated by the RDO front end, by DFHZATD, or by DHZCQIS. These areas describe the properties of a terminal, connection session, modegroup, or terminal pool.

ZCQPS consists of a fixed-length prefix, a bit map preceded by its length, an area for fixed-length parameters preceded by its length, and three variable-length parameters for BIND, USERID and password, each holding its own length.

Prefix
 00LL | Existence Bits
 00LL | Fixed-length parameters
 Beginning of the variable areas
 LL | BIND area
 LL | USERID
 LL | Password

The bits in the bit map show the value of a fixed-length parameter if it has two values, or, in other cases, whether it has a value or not.

The other areas are overlays or values for the areas already described.

The following area is the root for the overlay structure

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|---|
| (0) | STRUCTURE | 17 | ZCBPS | Root for overlay structure |
| (0) | ADDRESS | 4 | ZCQSPTR | Address of BPS |
| (4) | ADDRESS | 4 | BPS_BIND_IN_USE | BPS Bind in use. Set by ZCQIS. |
| (8) | BITSTRING | 1 | * | |
| | | | 1... .. | BPS_NOREPLACE Don't replace existing version |
| | | | .1. | BPS_SHIPPED_X Definition was shipped. |
| | | | ..11 1... | BPS_TYPE_BITS |
| | | | ..1. | BPS_CONN Connection definition |
| | | | ...1 | BPS_SESS Session definition |
| | | | 1... | BPS_POOL Pipeline definition |
| | | |111 | * |
| (9) | CHARACTER | 8 | BPS_ATOM_ID | Related set of recoverable |

BPSes

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-----------------------------------|
| (0) | STRUCTURE | 10 | DFHZCQPS | BPS |
| (0) | ADDRESS | 4 | BPS_FORWARD_PTR | Next in chain, if any. |
| (4) | HALFWORD | 2 | BPS_LENGTH | Length of whole structure. |
| (6) | UNSIGNED | 1 | BPS_RTC | Resource Type Code. |
| (7) | UNSIGNED | 1 | BPS_SUBTYPE | Subtype. |
| (8) | UNSIGNED | 1 | BPS_OVERLAY_ID | Overlay Check Key. |
| (9) | BITSTRING | 1 | * | |
| | | | 1... .. | BPS_TRACE_YES_X Trace this BPS |
| (A) | CHARACTER | | ZCQPSOVL | Location of overlays. |

The existence bits define which options will be generated in the resulting terminal. It also indicates if further information is contained within the fixed parameter area (BPS_FIXED_VARS).

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|---------------------------|
| (0) | STRUCTURE | * | BPS_EXIST_BITS | BPS Existence Bits |
| (0) | UNSIGNED | 2 | ZCQPSXBL | Length of existence bits. |
| (2) | CHARACTER | * | ZCQPSXBA | Existence bits area. |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|----------------------------|
| (0) | STRUCTURE | * | BPS_FIXED_VARS | BPS Fixed Variables |
| (0) | UNSIGNED | 2 | ZCQPSFVL | Length of fixed-len parms. |
| (2) | CHARACTER | * | ZCQPSFVA | Fixed-length parm area. |

BIND-image. An image of the VTAM BIND

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|-------------------|
| (0) | STRUCTURE | * | BPSBINDI | BPS Bind Image |
| (0) | UNSIGNED | 1 | BPSBINDL | Bind Image Length |
| (1) | CHARACTER | * | BPSBINDS | Bind Image String |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------------------------|
| (0) | STRUCTURE | * | BPS_BIND_IMAGE | Usually BASED(ADDR(BPSBINDI)) |
| (0) | UNSIGNED | 1 | BPS_BIND_LENGTH | Bind Image Length |
| (1) | CHARACTER | 25 | BPS_BIND_STRING | Bind Image String |
| (1A) | BITSTRING | 1 | BPS_CRYPT | Byte 26 of BIND |
| | 1111 | | * | Cryptography options |
| | 1111 | | * | Contains len(BPS_CRYPT_MODE) |
| (1B) | CHARACTER | * | BPS_CRYPT_MODE | Cryptography method |

Optional BIND image fields

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|------------------------|
| (0) | STRUCTURE | * | BPS_PLUNAME | Primary LU Name |
| (0) | UNSIGNED | 1 | BPS_PLUN_LENGTH | Primary LU Name length |
| (1) | CHARACTER | * | BPS_PLUN_STRING | Primary LU Name String |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-----------------|
| (0) | STRUCTURE | * | BPS_USERDATA | Userdata |
| (0) | UNSIGNED | 1 | BPS_USERD_LENGTH | Userdata Length |
| (1) | CHARACTER | * | BPS_USERD_STRING | Userdata string |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|--------------------------------|
| (0) | STRUCTURE | * | BPS_URCORRELATOR | User related correlation field |
| (0) | UNSIGNED | 1 | BPS_URC_LENGTH | UR corr. field length |
| (1) | CHARACTER | * | BPS_URC_STRING | UR Corr. field string |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--------------------------|
| (0) | STRUCTURE | * | BPS_SLU_NAME | Secondary LU Name |
| (0) | UNSIGNED | 1 | BPS_SLUN_LENGTH | Secondary LU Name length |
| (1) | CHARACTER | * | BPS_SLUN_STRING | Secondary LU Name String |

USERID as in the VTAM CINIT

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------|-----------------------------|
| (0) | STRUCTURE | 21 | BPS_USID | USERID |
| (0) | UNSIGNED | 1 | BPS_USID_LENGTH | USERID Length |
| (1) | CHARACTER | 20 | BPS_USID_STRING | USERID Max. allowed in CICS |

PASSWORD as in the VTAM CINIT

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|------------------------------|
| (0) | STRUCTURE | 17 | BPS_PWORD | PASSWORD |
| (0) | UNSIGNED | 1 | BPS_PWORD_LENGTH | PASSWORD Length |
| (1) | CHARACTER | 16 | BPS_PWORD_STRING | PASSWORD max allowed in CICS |

Overlay for terminals.
Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is on then the appropriate option will be set in the TCTTE.
If it only ends in _X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCTTE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|------------------|---------------------------------|
| (0) | STRUCTURE | 24 | ZC_EXIST_BITS | Terminal Existence Bits overlay |
| | 1... .. | | ZC_RESERVED_1_X | Reserved |
| | .1. | | ZC_NETNAME_X | Netname Var exists |
| | ..1. | | ZC_CONSLID_X | Console ID var exists |
| | ...1 | | ZC_RMTNAME_X | Remote Name var exists |
| | 1... | | ZC_SYSIDNT_X | Remote system name var exists |
| |1.. | | ZC_POOLPTR_X | Pipeline pool pointer exists |
| |1. | | ZC_PRINTTO_X | Printer var exists |
| |1 | | ZC_ALTPRINT_X | Alt printer var exists |
| (1) | 1... | | ZC_SPOOLTO_X | DOS Spooler var exists |
| | .1. | | ZC_POOLID_X | POOLID var exists |
| | ..1. | | * | Reserved |
| | ...1 | | ZC_OPERPRI_X | Operator Priority var exists |
| | 1... | | * | Reserved |
| |1.. | | * | Reserved |
| |1. | | ZC_OPERID_X | Operator ID var exists |
| |1 | | ZC_OPCLASS_X | Operator class exists |
| (2) | 1... | | ZC_NEPCLASS_X | NEP class var exists |
| | .1. | | ZC_TRANSACTION_X | Tran ID var exists |
| | ..1. | | ZC_TRMPRTY_X | Terminal Priority var exists |
| | ...1 | | * | Reserved |
| | 1... | | ZC_LDC_X | LDC var exists |
| |1.. | | ZC_LOGMODE_X | LOGMODE var exists |
| |1. | | ZC_PGESIZE_1_X | Page size var exists |
| |1 | | ZC_PGESIZE_2_X | Page size var exists |
| (3) | 1... | | ZC_ALTPGE_1_X | Alt Page size var exists |
| | .1. | | ZC_ALTPGE_2_X | Alt Page size var exists |
| | ..1. | | ZC_ALTSFX_X | Alt suffix var exists |
| | ...1 | | ZC_TCTUAL_X | User Area Len var exists |
| | 1... | | ZC_CINIT_YES_X | Not used |
| |1.. | | ZC_APLKYBD_YES_X | APL Keyboard |
| |1. | | ZC_APLTEXT_YES_X | APL Text |
| |1 | | ZC_AUDALARM_YE_X | Audible alarm |
| (4) | 1... | | ZC_COLOR_YES_X | Colour |
| | .1. | | ZC_DCKYBD_YES_X | DC keyboard |
| | ..1. | | ZC_EXTDS_YES_X | 3270 extended data stream |
| | ...1 | | ZC_HILIGHT_YES_X | High light |
| | 1... | | ZC_KATAKANA_YE_X | Katakana keyboard |
| |1.. | | ZC_MSRCNTRL_YE_X | Magnetic slot reader |
| |1. | | ZC_OBFMT_YES_X | OB format |
| |1 | | ZC_PARTNS_YES_X | Partition support |
| (5) | 1... | | ZC_PTRADAPT_YE_X | Print adaptor |
| | .1. | | ZC_PS_YES_X | Prog Symb |
| | ..1. | | ZC_SELCTPEN_YE_X | Select Pen |
| | ...1 | | ZC_VALIDATI_YE_X | Validate |
| | 1... | | ZC_HF_YES_X | Horizontal form |
| |1.. | | ZC_VF_YES_X | Vertical form |
| |1. | | ZC_FF_YES_X | Form Feed |
| |1 | | ZC_FMHPARM_YES_X | BMS FMH parms |

| Offset Hex | Type | Len | Name (Dim) | Description | |
|------------|-----------|-------|-------------------|-------------------------------|------------------------------|
| (6) | 1... | ..... | ZC_AUTOPAGE_YE_X | Autopage | |
| | .1.. | ..... | ZC_ERRLASTL_YE_X | Error last line | |
| | ..1. | ..... | ZC_ERRINTEN_YE_X | Error intensify | |
| |1 | ..... | ZC_ERRCOLOR_BL_X | Error colour blue | |
| |1... | ..... | ZC_ERRCOLOR_RE_X | Error colour red | |
| |1.. | ..... | ZC_ERRCOLOR_PL_X | Error colour pink | |
| |1. | ..... | ZC_ERRCOLOR_GR_X | Error colour green | |
| |1 | ..... | ZC_ERRCOLOR_TU_X | Error colour turquoise | |
| | (7) | 1... | | ZC_ERRCOLOR_YE_X | Error colour yellow |
| | | .1.. | | ZC_ERRCOLOR_NE_X | Error colour neutral |
| ..1. |  | ..... | ZC_ERRHILIG_BL_X | Error hilight blue | |
|1 |  | ..... | ZC_ERRHILIG_RE_X | Error hilight red | |
|1... |  | ..... | ZC_ERRHILIG_UN_X | Error hilight underline | |
|1.. |  | ..... | ZC_ATI_YES_X | ATI allowed | |
|1. |  | ..... | ZC_TTL_YES_X | TTI allowed | |
|1 |  | ..... | ZC_INTLOG_YES_X | Create sess | |
| (8) | | 1... | | ZC_OUTSERVI_YE_X | Out of service |
| | | .1.. | | ZC_INPUT_YES_X | Input only term |
| | ..1. | ..... | ZC_RELREQ_YES_X | Relreq | |
| |1 | ..... | ZC_DISCONNEN_YE_X | Disconnect | |
| |1... | ..... | ZC_ROUTE_NOTAL_X | Route DMS SP | |
| |1.. | ..... | ZC_ROUTE_NEVER_X | Route DMS NO | |
| |1. | ..... | ZC_GMSG_YES_X | Logon Message | |
| |1 | ..... | ZC_PRINT_YES_X | Print | |
| | (9) | 1... | | ZC_CHNASSY_YES_X | Chain assembly |
| | | .1.. | | ZC_UCTRAN_YES_X | Upper case translate |
| ..1. |  | ..... | ZC_3270E_YES_X | 3270 E | |
|1 |  | ..... | ZC_TEXTKYBD_YE_X | Text keyboard | |
|1... |  | ..... | ZC_TEXTPRIN_YE_X | Text print | |
|1.. |  | ..... | ZC_CONNAUTO_YE_X | Auto connect | |
|1. |  | ..... | ZC_IOAREALEN_X | IO area len | |
|1 |  | ..... | ZC_CHAINMAX_X | Chain max | |
| (A) | | 1... | | ZC_PARS_LU6_X | Parallel sess LU61 |
| | | .1.. | | ZC_PARS_LUC_X | Parallel sess LU62 |
| | ..1. | ..... | ZC_QUERY_COLD_X | Query cold | |
| |1 | ..... | ZC_QUERY_ALL_X | Query all | |
| |1... | ..... | ZC_COPY_YES_X | 3270 copy | |
| |1.. | ..... | ZC_ACOPY_YES_X | 3270 copy alt | |
| |1. | ..... | ZC_PREBIND_SCR_X | Pre bind | |
| |1 | ..... | ZC_AUTOPAGE_NO_X | BMS Autopage | |
| | (B) | 1... | | ZC_CGCSGID_1_X | Graphic char set var exists |
| | | .1.. | | ZC_CGCSGID_2_X | Graphic char set var exists |
| ..1. |  | ..... | ZC_OBOPERID_YE_X | Outboard op id | |
|1 |  | ..... | ZC_SHIPPABL_YE_X | Shippable | |
|1... |  | ..... | ZC_SIGNOFF_YES_X | Signoff at timeout | |
|1.. |  | ..... | ZC_PRINTERTYPE_X | Printer type | |
|1. |  | ..... | ZC_SPOOLDEST_X | Dos spool dest | |
|1 |  | ..... | ZC_SIGNOFF_LOG_X | Logoff at timeout | |
| (C) | | 1... | | ZC_XSNAME_X | Security name var exists |
| | | .1.. | | ZC_USEDFLTU_YE_X | Use default user |
| | ..1. | ..... | ZC_NETNAMEQ_X | Netname Q | |
| |1 | ..... | ZC_MAXSESS_1_X | Max sessions var exists | |
| |1... | ..... | ZC_MAXSESS_2_X | Max sessions var exists | |
| |1.. | ..... | ZC_SYSTEM_PTR_X | Pointer not name supplied | |
| |1. | ..... | * | Reserved | |
| |1 | ..... | * | Reserved | |
| | (D) | 1... | | * | Reserved |
| | | .1.. | | ZC_CONNAUTO_AL_X | Auto connect all |
| ..1. |  | ..... | ZC_SESSNAME_X | Session name | |
|1 |  | ..... | ZC_LUSM_YES_X | LU Serv manager session | |
|1... |  | ..... | ZC_MODENAME_X | Mode name var exists | |
|1.. |  | ..... | ZC_POOLCNT_X | Pool count var exists | |
|1. |  | ..... | ZC_PARS_YES_X | Parallel session | |
|1 |  | ..... | ZC_ATTACHSE_LO_X | Attach security local | |
| (E) | | 1... | | ZC_ATTACHSE_ID_X | Attach security ID |
| | | .1.. | | ZC_ATTACHSE_VE_X | Attach security verify |
| | ..1. | ..... | * | Reserved | |
| |1 | ..... | ZC_TRANSIENT_X | Autoinstalled terminal | |
| |1... | ..... | ZC_TASKLIMIT_X | Pipe line task limit | |
| |1.. | ..... | ZC_BACKTRAN_YE_X | Background transparency | |
| |1. | ..... | ZC_SOSI_YES_X | Ebdcid and d.byte char set | |
| |1 | ..... | ZC_OUTLINE_YES_X | Outline supported | |
| | (F) | 1... | | ZC_RECOVPT_SY_X | RecovOption = System Default |
| | | .1.. | | ZC_RECOVPT_CL_X | RecovOption = Clear Conv. |
| ..1. |  | ..... | ZC_RECOVPT_RE_X | RecovOption = Release Session | |
|1 |  | ..... | ZC_RECOVPT_RS_X | RecovOption = Restart Session | |
|1... |  | ..... | ZC_RECOVPT_NO_X | RecovOption = None | |
|1.. |  | ..... | ZC_RECOVNOT_NO_X | RecovNotify = None | |
|1. |  | ..... | ZC_RECOVNOT_ME_X | RecovNotify = Message | |
|1 |  | ..... | ZC_RECOVNOT_TR_X | RecovNotify = Transaction | |
| (10) | | 1... | | ZC_NATLANG_X | National Language exists |
| | | .1.. | | ZC_XRFSIGNO_FO_X | XRFsignoff = force => 1 |
| | ..1. | ..... | ZC_3270COMP_X | 3270 compatibility bits | |
| |1 | ..... | ZC_LUTYPE2_X | Indicate DEVICE=LUTYPE2 | |
| |1... | ..... | ZC_UCTRAN_TRAN_X | UC translate tranid | |
| (10) | BITSTRING | | ZC_RESERVED_311 | Reserved | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------|----------------------------|
| (11) | 1... | | ZC_PRT_NETNAME_X | MTS printer netname |
| | 1.. | | ZC_APRT_NETNAME_X | MTS ALTPRT netname |
| | 1.. | | ZC_CONSNAME_X | Console name exists |
| |1 | | ZC_BINDSECU_YE_X | Bind security on |
| |1 | | ZC_BINDSECU_NO_X | Bind security off |
| (12) | 1... .. | | ZC_ATTACHSE_PE_X | Attach security Persistent |
| | ..1. | | ZC_ATTACHSE_ML_X | Attach security Mixed |
| | ..11 1... | | ZC_RESERVED_320 | Reserved |
| (12) | BITSTRING | | ZC_RESERVED_330 | Reserved |
| (13) | ..1. | | ZC_PROTOCOL_EX_X | PROTOCOL=EXCI |
| | ..1. | | ZC_SENDCOUNT_X | Session SENDCOUNT supplied |
| |1 | | ZC_RECEIVECOUN_X | Session RECEIVECOUNT |
| | 1.. | | ZC_CLONE_X | APPC clone session |
| |1 | | ZC_EXTENDED_NO_X | CBD, local sec allowed |
| |1 | | ZC_EXTENDED_YE_X | CBD, NO local sec. allowed |
| |1 | | ZC_CBDATTAC_NO_X | CBD, no CBD security |
| (14) | 1... .. | | ZC_CBDATTAC_AC_X | CBD, accepted protocol |
| | ..1. | | ZC_CBDATTAC_RE_X | CBD, required protocol |
| | ..1. | | ZC_USE_MRO_BITMAP_X | Session for MRO BITMAP |
| | 1.. | | ZC_TITOKEN_YES_X | token present |
| (14) | BITSTRING | | ZC_RESERVED_DEV | Reserved for rel 510 |
| (15) | ..1. | | ZC_CATLG_NO_X | Session not catalogued |
| | ..1. | | ZC_TOR_NETNAME_X | TOR netname provided |
| | 1.. | | ZC_VIRTUAL_TERMINAL_X | Virtual Terminal |
| | 1.. | | ZC_BRACKET_NO_X | Bracket(No) |
| (15) | BITSTRING | | ZC_RESERVED_510 | Reserved for rel 510 |
| (16) | BITSTRING | 1 | ZC_RESERVED_130 | Reserved for rel 1.3 |

Fixed Length Variables for Terminals

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|--------------------|----------------------------------|
| (0) | STRUCTURE | 257 | ZC_FIXED_VARS | Terminal Variable fields overlay |
| (0) | CHARACTER | 4 | ZC_TERMINAL | Terminal ID |
| (4) | CHARACTER | 8 | ZC_NETNAME | Netname |
| (C) | FULLWORD | 4 | ZC_CONSLID | Console ID |
| (10) | CHARACTER | 4 | ZC_RMTNAME | Remote name |
| (14) | CHARACTER | 4 | ZC_SYSIDNT | Connection ID |
| (18) | CHARACTER | 4 | ZC_PRINTTO | Printer name |
| (1C) | CHARACTER | 4 | ZC_ALTPRINT | Alt printer name |
| (20) | CHARACTER | 4 | ZC_SPOOLTO_OLD | Old DOS spooler ID |
| (24) | CHARACTER | 8 | ZC_POOLID | Pool ID |
| (24) | ADDRESS | 4 | ZC_POOLPTR | Pool Pointer |
| (2C) | UNSIGNED | 1 | ZC_OPERPRI | Operator priority |
| (2D) | BITSTRING | 3 | * | Reserved |
| (30) | BITSTRING | 8 | * | Reserved |
| (38) | FULLWORD | 4 | ZC_NEPCLASS | NEP class |
| (3C) | FULLWORD | 4 | * | Reserved |
| (40) | CHARACTER | 3 | ZC_OPCLASS | Operator class |
| (43) | CHARACTER | 3 | ZC_OPERID | Operator ID |
| (46) | CHARACTER | 4 | ZC_TRANSACTION | Transaction ID |
| (4A) | CHARACTER | 2 | * | Reserved |
| (4C) | FULLWORD | 4 | ZC_TRMPRTY | Terminal Priority |
| (50) | FULLWORD | 4 | * | Reserved |
| (54) | CHARACTER | 8 | ZC_LDC | LDC |
| (5C) | UNSIGNED | 1 | ZC_PREBIND_SCR (4) | Pre Bind |
| (60) | CHARACTER | 8 | ZC_LOGMODE | Logmode |
| (68) | FULLWORD | 4 | ZC_PGFSIZE_1 | BMS Page size |
| (6C) | FULLWORD | 4 | ZC_PGFSIZE_2 | BMS Page size |
| (70) | FULLWORD | 4 | ZC_ALTPGE_1 | BMS Alt page size |
| (74) | FULLWORD | 4 | ZC_ALTPGE_2 | BMS Alt page size |
| (78) | CHARACTER | 1 | ZC_ALTSFX | BMS Alt suffix |
| (79) | CHARACTER | 3 | * | Reserved |
| (7C) | FULLWORD | 4 | ZC_TCTUAL | User area length |
| (80) | ADDRESS | 4 | ZC_MODE_PTR | Mode group pointer |
| (84) | FULLWORD | 4 | ZC_IOAREALEN | TIOA length |
| (88) | FULLWORD | 4 | ZC_CHAINMAX | Chain max |
| (8C) | UNSIGNED | 2 | ZC_CGCSGID_1 | Graphic char set |
| (8E) | UNSIGNED | 2 | ZC_CGCSGID_2 | Graphic char set |
| (90) | CHARACTER | 2 | ZC_PRINTERTYPE | Printer type |
| (92) | CHARACTER | 2 | * | Reserved |
| (94) | FULLWORD | 4 | ZC_TASKLIMIT | Task limit |
| (98) | CHARACTER | 8 | ZC_SPOOLDEST | DOS spool dest |
| (A0) | CHARACTER | 1 | * | Reserved |
| (A1) | CHARACTER | 8 | ZC_NETNAMEQ | Netname queue |
| (A9) | CHARACTER | 3 | * | Reserved |
| (AC) | FULLWORD | 4 | ZC_MAXSESS_1 | Max sessions |
| (B0) | FULLWORD | 4 | ZC_MAXSESS_2 | Max sessions |
| (B4) | CHARACTER | 8 | ZC_XSNAME | Security name |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|----------------------------|
| (BC) | FULLWORD | 4 | ZC_POOLCNT | Pool count |
| (C0) | FULLWORD | 4 | ZC_MAXSESSCOUNT | Max session count |
| (C4) | CHARACTER | 8 | ZC_TITOKEN | Terminal token |
| (CC) | CHARACTER | 8 | ZC_MODENAME | Mode group name |
| (D4) | CHARACTER | 8 | ZC_SPOOLTO | DOS SPOOLTO name |
| (DC) | CHARACTER | 1 | ZC_NATLANG | National Language |
| (DD) | CHARACTER | 8 | ZC_PRT_NETNAME | MTS printer netname |
| (E5) | CHARACTER | 8 | ZC_APRT_NETNAME | MTS ALTPRT netname |
| (ED) | CHARACTER | 8 | ZC_CONSNAME | Console name |
| (F5) | CHARACTER | 2 | ZC_SENDCOUNT | Session SENDCOUNT (MRO) |
| (F7) | CHARACTER | 2 | ZC_RECEIVECOUN | Session RECEIVECOUNT (MRO) |
| (F9) | CHARACTER | 8 | ZC_TOR_NETNAME | TOR Netname |

Overlay for connection.
 Generally, if it ends in _xxx_X (e.g._YES_X) and the bit is on then the appropriate option will be set in the TCSE.
 If it only ends in _X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCSE.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------------------|-----------------------------------|
| (0) | STRUCTURE | 10 | ZX_EXIST_BITS | Connection Existence bits overlay |
| | | | 1... ..* | Reserved |
| | | | .1. ZX_NETNAME_X | Connection netname var exists |
| | | | ..1. ZX_XSNAME_X | Security name var exists |
| | | | ...1 ZX_USEDFLTU_YE_X | Use default user |
| | | | 1... ZX_CONNAUTO_YE_X | Auto connect |
| | | |1. ZX_ATTACHSE_LO_X | Attach security local |
| | | |1. ZX_ATTACHSE_VE_X | Attach security verify |
| | | |1 ZX_DATASTR_USE_X | Data stream user |
| (1) | | | 1... ZX_DATASTR_327_X | Data stream 3270 |
| | | | .1. ZX_DATASTR_SCS_X | Data stream SCS |
| | | | .1. ZX_DATASTR_STR_X | Data stream STR field |
| | | | ...1 ZX_DATASTR_LMS_X | Data stream LMS |
| | | | 1... ZX_RECFCM_U_X | RECFCM Undefined |
| | | |1. ZX_RECFCM_VB_X | RECFCM Variable blocked |
| | | |1. ZX_CONNAUTO_AL_X | Autoconnect all |
| | | |1 ZX_OUTSERVI_YE_X | Out of service |
| (2) | | | 1... ZX_TRANSACTION_X | Transaction ID var exists |
| | | | .1. ZX_INTLOG_YES_X | Intlog |
| | | | .1. ZX_ACCMETH_XM_X | Cross Memory access method |
| | | | ...1 ZX_ATTACHSE_ID_X | Attach security ID |
| | | | 1... * | Reserved |
| | | |1. ZX_TRANSIENT_X | Autoinstalled connection |
| | | |1. ZX_RMTNAME_X | Remote name |
| | | |1 ZX_RMTSYSN_X | Remote system |
| (3) | | | 1... ZX_BINDSECU_YE_X | Bind security on |
| | | | .1. ZX_BINDSECU_NO_X | Bind security off |
| | | | .1. ZX_ATTACHSE_PE_X | Attach security Persistent |
| | | | ...1 ZX_ATTACHSE_MI_X | Attach security Mixed |
| (3) | BITSTRING | 1 | ZX_RESERVED_3XX | Reserved for rel 3. |
| (4) | | | ZX_PROTOCOL_EX_X | PROTOCOL=EXCI |
| | | | 1... ZX_QUEUELIM_X | Allocate queue limit |
| | | |1. ZX_PSRECOVE_SY_X | PSRECOVERY = Sysdefault |
| | | |1 ZX_PSRECOVE_NO_X | PSRECOVERY = None |
| (5) | | | 1... ZX_SENDCOUNT_X | Session SENDCOUNT supplied |
| | | | .1. ZX_RECEIVECOUN_X | Session RECEIVECOUNT |
| | | | ..1. ZX_CLONE_X | APPC clone |
| | | | ...1 ZX_MAXQTIME_X | Allocate queue time |
| | | | 1... ZX_EXTENDED_NO_X | CBD, local sec allowed |
| | | |1. ZX_EXTENDED_YE_X | CBD, NO local sec. allowed |
| | | |1. ZX_CBDATTAC_NO_X | CBD, no CBD security |
| | | |1. ZX_CBDATTAC_AC_X | CBD, accepted protocol |
| (6) | | | 1... ZX_CBDATTAC_RE_X | CBD, required protocol |
| | | | .1. ZX_RMTSYSNET_X | Netname of TOR |
| | | | ..1. ZX_TITOKEN_YES_X | token present |
| | | | ...1 1111 ZX_RESERVED_410 | Reserved for rel 410 |
| (7) | | | 1... ZX_GR_X | Both sides GR registered |
| | | | .1. ZX_GRNAME_CONN_X | On = GR name connection |

Off = member name conn.

| | | | | |
|-----|-----------|---|----------------------------|-----------------------------|
| | | | ..1. ZX_USE_OUR_MEM_X | Partner used our membername |
| | | | ...1 ZX_NETID_X | Network name present |
| | | | 1... ZX_NETNAME2_X | GR or member name present |
| | | |1. ZX_CATLG_NO_X | Connection not catalogued |
| | | |1. ZX_DELETE_X | AI implicitly deletable |
| | | |1 ZX_XLNACTIO_FO_X | XLNaction(force) |
| (8) | BITSTRING | 1 | ZX_RESERVED_510 | Reserved for rel 510 |
| (9) | BITSTRING | 1 | ZX_RESERVED_130 | Reserved for rel 1.3 |

Fixed Length Variables for Connections

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|------------------------------------|
| (0) | STRUCTURE | 86 | ZX_FIXED_VARS | Connection Variable fields overlay |
| (0) | CHARACTER | 4 | ZX_CONNECTION | Connection name |
| (4) | CHARACTER | 4 | ZX_INDSYS | Indirect system name |
| (8) | CHARACTER | 8 | ZX_NETNAME | Netname |
| (10) | CHARACTER | 8 | ZX_XSNAME | Security name |
| (18) | CHARACTER | 8 | * | Reserved |
| (20) | CHARACTER | 4 | ZX_TRANSACTION | Transaction ID |
| (24) | CHARACTER | 4 | ZX_RMTNAME | Remote name |
| (28) | CHARACTER | 4 | ZX_RMTSYSN | Remote system |
| (2C) | FULLWORD | 4 | ZX_QUEUE LIM | Allocate queue limit |
| (30) | CHARACTER | 2 | ZX_SENDCOUNT | Session SENDCOUNT (MRO) |
| (32) | CHARACTER | 2 | ZX_RECEIVECOUN | Session RECEIVECOUNT (MRO) |
| (34) | HALFWORD | 2 | ZX_MAXQTIME | Allocate queue time |
| (36) | CHARACTER | 8 | ZX_RMTSYSNET | Netname of TOR |
| (3E) | CHARACTER | 8 | ZX_TITOKEN | terminal identification |
| (46) | CHARACTER | 8 | ZX_NETID | NETID of partner |
| (4E) | CHARACTER | 8 | ZX_NETNAME2 | Generic Resource or member name |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------------|-------------|
| 4 | DECIMAL | 24 | | |
| 4 | DECIMAL | 10 | | |
| 4 | DECIMAL | 257 | | |
| 4 | DECIMAL | 86 | | |
| 4 | DECIMAL | 575 | BPS_C_MAXSIZE | |
| 4 | DECIMAL | 134 | BPS_X_MAXSIZE | |

ZEPD TCP modules address list

CONTROL BLOCK NAME = DFHZEPD
 DESCRIPTIVE NAME = CICS TCP Modules Address List.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------------|-----------|-----|--------------|--|
| (0) | | | DFHZEPD | TCP MODULES ADDR LIST DSECT |
| (0) | ADDRESS | 4 | DFHZTDNA | 00 TCP dispatcher entry address |
| (4) | ADDRESS | 4 | DFHZRWNA | 01 APPL R/W request entry |
| (8) | ADDRESS | 4 | DFHZTSNA | 02 Locate TCP service entry * |
| STANDARD NAMES FOR MODULES | | | | |
| (0) | ADDRESS | 4 | DFHZDSPA | 00 Dispatch module address |
| (4) | ADDRESS | 4 | DFHZARQA | 01 READ/WRITE module address |
| (8) | ADDRESS | 4 | DFHZLOCA | 02 LOCATE TCP module address |
| (C) | ADDRESS | 4 | DFHZDETA | 03 DETACH module address |
| (10) | ADDRESS | 4 | DFHZBTNA (0) | |
| (10) | ADDRESS | 4 | DFHZTCPA | 04 Non-VTAM TCP entry point |
| (14) | ADDRESS | 4 | | 05 Reserved |
| (18) | ADDRESS | 4 | DFHZCRQA | 06 Command requests module address |
| (1C) | HALFWORD | 2 | | Reserved |
| (1E) | HALFWORD | 2 | DFHZLENG | 07 Length of ZEPD list |
| (20) | ADDRESS | 4 | DFHZSTUA | 08 Status change module address |
| (24) | ADDRESS | 4 | DFHZTSPA | 09 Terminal sharing module address |
| (28) | ADDRESS | 4 | DFHZHPXA | 0A HPO RPL executor ZHPRX address |
| (2C) | ADDRESS | 4 | DFHZISPA | 0B ALLOCATE/FREE module address |
| (30) | ADDRESS | 4 | DFHZIS1A | 0C Common IS/ZCP requests address |
| (34) | ADDRESS | 4 | DFHZIS2A | 0D IS MM/BSC internal requests |
| (38) | ADDRESS | 4 | DFHZABDA | 0E Invalid request or abend module address |
| (3C) | ADDRESS | 4 | | 0F Reserved |
| (40) | ADDRESS | 4 | DFHZATIA | 10 Automatic transaction Initiation module address |
| (44) | ADDRESS | 4 | DFHZATTA | 11 Attach task module address |
| (48) | ADDRESS | 4 | DFHZFREA | 12 Free storage module address |
| (4C) | ADDRESS | 4 | DFHZGETA | 13 Get storage module address |
| RESERVED EXTRA SPACE FOR NON-VTAM TCT | | | | |
| | .1.1 | | ZEPDLENC | "-DFHZEPD" |
| (50) | ADDRESS | 4 | DFHZRACA | 14 Receive any module address |
| (54) | ADDRESS | 4 | DFHZRSTA | 15 RESETSR module address |
| (58) | ADDRESS | 4 | DFHZRVSA | 16 Receive specific module address |
| (5C) | ADDRESS | 4 | DFHZRVXA | 17 Receive specific exit module address |
| (60) | ADDRESS | 4 | DFHZSDSA | 18 Send normal module address |
| (64) | ADDRESS | 4 | DFHZSDXA | 19 Send data exit module address |
| (68) | ADDRESS | 4 | DFHZUCTA | 1A Translation module address |
| (6C) | ADDRESS | 4 | DFHZUIXA | 1B User exit module address |
| (70) | ADDRESS | 4 | DFHZACTA | 1C Activate scan module address |
| (74) | ADDRESS | 4 | DFHZSDRA | 1D Send response module address |
| (78) | ADDRESS | 4 | DFHZHPSA | 1E HPO send receive module address |
| (7C) | ADDRESS | 4 | DFHZRPLA | 1F Receive Any Builder |
| (80) | ADDRESS | 4 | DFHZAITA | 20 Attach initiation module address |
| (84) | ADDRESS | 4 | DFHZASXA | 21 Asynchronous command exit module address |
| (88) | ADDRESS | 4 | DFHZCLSA | 22 Close destination module address |
| (8C) | ADDRESS | 4 | DFHZCLXA | 23 Close destination exit module address |
| (90) | ADDRESS | 4 | | 24 Reserved |
| (94) | ADDRESS | 4 | DFHZLEXA | 25 LERAD exit module address |
| (98) | ADDRESS | 4 | DFHZLGXA | 26 LOGON exit module address |
| (9C) | ADDRESS | 4 | DFHZLRPA | 27 Logical record presentation module address |
| (A0) | ADDRESS | 4 | DFHZLTXA | 28 LOSTERM exit module address |
| (A4) | ADDRESS | 4 | DFHZOPNA | 29 Open destination module address |
| (A8) | ADDRESS | 4 | DFHZOPXA | 2A Open destination exit module address |
| (AC) | ADDRESS | 4 | DFHZRAQA | 2B Read ahead queuing module address |
| (B0) | ADDRESS | 4 | DFHZRARA | 2C Read ahead retrieval module address |
| (B4) | ADDRESS | 4 | DFHZRPXA | 2D Response exit module address |
| (B8) | ADDRESS | 4 | DFHZRRXA | 2E Release request exit module address |
| (BC) | ADDRESS | 4 | DFHZNSPA | 2F Network services procedure exit address |
| (C0) | ADDRESS | 4 | DFHZRSYA | 30 RESYNC module address |
| (C4) | ADDRESS | 4 | DFHZSAXA | 31 Send asynchronous exit address |
| (C8) | ADDRESS | 4 | DFHZSCXA | 32 SCIP exit module address |
| (CC) | ADDRESS | 4 | DFHZSDAA | 33 Send asynchronous command module address |
| (D0) | ADDRESS | 4 | DFHZSKRA | 34 Send command response address |
| (D4) | ADDRESS | 4 | DFHZSESA | 35 SESSIONC command module address |
| (D8) | ADDRESS | 4 | DFHZSEXA | 36 SESSIONC exit module address |
| (DC) | ADDRESS | 4 | DFHZSIMA | 37 SIMLOGON module address |
| (E0) | ADDRESS | 4 | DFHZSIXA | 38 SIMLOGON exit module address |
| (E4) | ADDRESS | 4 | DFHZSLSA | 39 SETLOGON start module address |
| (E8) | ADDRESS | 4 | DFHZSSXA | 3A Send synchronous command exit address |
| (EC) | ADDRESS | 4 | DFHZSYXA | 3B SYNAD exit module address |
| (F0) | ADDRESS | 4 | DFHZTAXA | 3C TURNAROUND module address |
| (F4) | ADDRESS | 4 | DFHZTPXA | 3D TPEND exit module address |
| (F8) | ADDRESS | 4 | DFHZOPAA | 3E VTAM open ACB module address |
| (FC) | ADDRESS | 4 | DFHZSHUA | 3F SHUTDOWN/RESERVED module address |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|---------|-----|------------|--------------------------------------|
| (100) | ADDRESS | 4 | DFHZQUEA | 40 Process queue module address |
| (104) | ADDRESS | 4 | DFHZEMWA | 41 Error message module address |
| (108) | ADDRESS | 4 | DFHZSYNA | 42 SYNCHPOINT module address |
| (10C) | ADDRESS | 4 | DFHZTRAA | 43 ZCP RPL trace module address |
| (110) | ADDRESS | 4 | DFHZANDA | 44 Abend control block module |
| (114) | ADDRESS | 4 | DFHZCNAA | 45 Console control module |
| (118) | ADDRESS | 4 | DFHZCNRA | 46 Console request module |
| (11C) | ADDRESS | 4 | DFHZCNCA | 47 Console abnormal condition module |
| (120) | ADDRESS | 4 | DFHZUAXA | 48 Attach user exit |
| (124) | ADDRESS | 4 | DFHZUOXA | 49 Output user exit |
| (128) | ADDRESS | 4 | DFHZARLA | 4A LU6.2 APPL request module |
| (12C) | ADDRESS | 4 | DFHZARMA | 4B LU6.2 migration module |
| (130) | ADDRESS | 4 | DFHZRVLA | 4C LU6.2 RECV pre-vtam module |
| (134) | ADDRESS | 4 | DFHZRLXA | 4D LU6.2 RECV exit module |
| (138) | ADDRESS | 4 | DFHZSDLA | 4E LU6.2 SEND module |
| (13C) | ADDRESS | 4 | DFHZSLXA | 4F LU6.2 SEND exit module |
| (140) | ADDRESS | 4 | DFHZERHA | 50 LU6.2 APPL ERP module |
| (144) | ADDRESS | 4 | DFHZLUSA | 51 LU6.2 LU services module |
| (148) | ADDRESS | 4 | DFHZBKTA | 52 LU6.2 Bracket state machine |
| (14C) | ADDRESS | 4 | DFHZCNTA | 53 LU6.2 Contention state |
| (150) | ADDRESS | 4 | DFHZCHSA | 54 LU6.2 Chain send |
| (154) | ADDRESS | 4 | DFHZCHRA | 55 LU6.2 Chain receive |
| (158) | ADDRESS | 4 | DFHZUSRA | 56 LU6.2 Conversation state |
| (15C) | ADDRESS | 4 | DFHZDSTA | 57 SNA-ASCII Translation module |
| (160) | ADDRESS | 4 | DFHZEV1A | 58 Encryption validation 1 |
| (164) | ADDRESS | 4 | DFHZEV2A | 59 Encryption validation 2 |
| (168) | ADDRESS | 4 | | 5A Reserved |
| (16C) | ADDRESS | 4 | | 5B Reserved |
| (170) | ADDRESS | 4 | | 5C Reserved |
| (174) | ADDRESS | 4 | | 5D Reserved |
| (178) | ADDRESS | 4 | DFHZXRCA | 5E XRF terminal recovery |
| (17C) | ADDRESS | 4 | | 5F Reserved |
| (180) | ADDRESS | 4 | DFHZXRLA | 60 LU6.2 Transaction Routing |
| (184) | ADDRESS | 4 | DFHZINTA | 61 Initialisation Module |
| (188) | ADDRESS | 4 | | 62 Reserved |
| (18C) | ADDRESS | 4 | DFHZSTAA | 63 LU6.2 Application State |
| (190) | ADDRESS | 4 | DFHZRLPA | 64 LU6.2 RECV post-vtam module |
| (194) | ADDRESS | 4 | DFHZCRTA | 65 LU6.2 RPL_B state |
| (198) | ADDRESS | 4 | DFHZRASA | 66 LU 6.2 flooding module |
| (19C) | ADDRESS | 4 | DFHZXPSA | 67 PRSS APPC recovery |

If you add extra modules at this point dont forget to change DFHSIF1 MODLMAX field. Also add them in pairs because of the double word boundary below.

| | | | | |
|-------|----------|---|----------|--------------------------------|
| (1A0) | DBL WORD | 8 | (0) | |
| (1A0) | | | ZEPDLEN | "-DFHZEPD" Total length |
| (1A0) | | | ZEPDLENV | "ZEPDLEN-ZEPDLENC" VTAM length |

ZGDC Domain subroutine equates

```

=====
CONTROL BLOCK NAME = DFHZGDCC
DESCRIPTIVE NAME = CICS ZC domain subroutine constants
FUNCTION =
  To contain constants in use by ZG domain subroutines
  such as trace point IDs and recovery routine constants.
LIFETIME =
STORAGE CLASS =
INNER CONTROL BLOCKS =
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
=====
Trace point identifiers
=====
DFHZCN1
  
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|------|-------------------------|-------------|
| 2 | HEX | 3000 | TID_ZCN1_ENTRY | @LDA |
| 2 | HEX | 3001 | TID_ZCN1_EXIT | @LDA |
| 2 | HEX | 3002 | TID_ZCN1_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | 3003 | TID_ZCN1_ | |
| | | | PROTOCOL_VIOLATION | |
| 2 | HEX | 3004 | TID_ZCN1_ | |
| | | | DATA_LENGTH_ERROR | |
| 2 | HEX | 3005 | TID_ZCN1_ | |
| | | | ZCN2_INSTALL_ERROR | |
| 2 | HEX | 3006 | TID_ZCN1_ | @LDA |
| | | | ZCN2_UNINSTALL_ERROR | |
| 2 | HEX | 3007 | TID_ZCN1_DISASTER | @LDA |
| 2 | HEX | 3008 | TID_ZCN1_INVALID_START_ | |
| | | | TYPE | |
| 2 | HEX | 300A | TID_ZCN1_ | |
| | | | INSTALL_CANCELLED | |
| 2 | HEX | 300B | TID_ZCN1_ | @LDA |
| | | | INVALID_VERSION | |
| 2 | HEX | 300C | TID_ZCN1_ | |
| | | | INVALID_PRINC_FAC | |
| 2 | HEX | 300D | TID_ZCN1_INVALID_GROUP | @LDA |
| 2 | HEX | 300E | TID_ZCN1_INVALID_DATA | @LDA |
| 2 | HEX | 300F | TID_ZCN1_NO_CODEPAGE | @LDA |
| 2 | HEX | 3040 | TID_ZCN1_ | @LDA |
| | | | NO_CAPABILITIES | |
| 2 | HEX | 3041 | TID_ZCN1_CCIN_REMOTE | @LDA |
| DFHZCN2 | | | | |
| 2 | HEX | 3010 | TID_ZCN2_ENTRY | @LDA |
| 2 | HEX | 3011 | TID_ZCN2_EXIT | @LDA |
| 2 | HEX | 3014 | TID_ZCN2_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | 3015 | TID_ZCN2_ | @LDA |
| | | | COND_ENQ_FAILED | |
| 2 | HEX | 3016 | TID_ZCN2_ | |
| | | | RECOVERY_ENTERED | |
| 2 | HEX | 3017 | TID_ZCN2_ | @LDA |
| | | | ACQ_PROG_FAILED | |
| 2 | HEX | 3018 | TID_ZCN2_ | |
| | | | CDTS_ATTACH_FAILED | |
| 2 | HEX | 3019 | TID_ZCN2_CDTS_TIMEOUT | @LDA |
| 2 | HEX | 301A | TID_ZCN2_INVALID_CAPS | @LDA |
| 2 | HEX | 301C | TID_ZCN2_ | @LDA |
| | | | DEL_SURROG_BUSY | |
| DFHZCT1 | | | | |
| 2 | HEX | 3020 | TID_ZCT1_ENTRY | @LDA |
| 2 | HEX | 3021 | TID_ZCT1_EXIT | @LDA |
| 2 | HEX | 3022 | TID_ZCT1_RECEIVE_FAILED | @LDA |
| 2 | HEX | 3023 | TID_ZCT1_INPUT_DATA | @LDA |
| 2 | HEX | 3024 | TID_ZCT1_NOT_CLIENT | @LDA |
| 2 | HEX | 3025 | TID_ZCT1_ | |
| | | | CITS_ATTACH_FAILED | |
| 2 | HEX | 3026 | TID_ZCT1_DUP_FOUND | @LDA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|------|------|---|-------------|
| 2 | HEX | 3027 | TID_ZCT1_ CITS_TIMEOUT | @LDA |
| 2 | HEX | 3028 | TID_ZCT1_ CDTS_ATTACH_FAILED | |
| 2 | HEX | 3029 | TID_ZCT1_ CDTS_TIMEOUT | @LDA |
| 2 | HEX | 302A | TID_ZCT1_ INVALID_START_ TYPE | |
| 2 | HEX | 302B | TID_ZCT1_ INVALID_SYNC_LEVEL | |
| 2 | HEX | 302C | TID_ZCT1_ LOGIC_ERROR | @LDA |
| 2 | HEX | 302D | TID_ZCT1_ DATA_LENGTH_ERROR | |
| 2 | HEX | 302E | TID_ZCT1_ | @LDA |
| 2 | HEX | 302F | INS_SURROG_BUSY | @LDA |
| 2 | HEX | 3030 | DEL_SURROG_BUSY | @LDA |
| 2 | HEX | 3030 | TID_ZCT1_ CITS_ABEND | @LDA |
| 2 | HEX | 3031 | TID_ZCT1_ GET_BPS_FAILED | @LDA |
| 2 | HEX | 3032 | TID_ZCT1_ INVALID_PRINC_FAC | |
| 2 | HEX | 3033 | TID_ZCT1_ INVALID_DATA | @LDA |
| 2 | HEX | 3034 | TID_ZCT1_ INVALID_FUNCTION | |
| 2 | HEX | 3035 | TID_ZCT1_ INVALID_CODEPAGE | |
| 2 | HEX | 3036 | TID_ZCT1_ | @LDA |
| 2 | HEX | 3037 | WRONG_VERSION | @LDA |
| 2 | HEX | 3037 | TID_ZCT1_ NETNAME_MISSING | @LDA |
| 2 | HEX | 3038 | TID_ZCT1_ | @LDA |
| 2 | HEX | 3039 | CODEPAGE_CONVERSION_ F | @LDA |
| 2 | HEX | 3039 | TID_ZCT1_ CTIN_REMOTE | @LDA |
| <hr/> | | | | |
| DFHCCNV3 | | | | |
| 2 | HEX | 3050 | TID_CCNV3_ CHK_CL_CP_ENTRY | |
| 2 | HEX | 3051 | TID_CCNV3_ | @LEA |
| 2 | HEX | 3051 | CHK_CL_CP_EXIT | |
| 2 | HEX | 3052 | TID_CCNV3_ CHK_CONV_SUP_ENTRY | |
| 2 | HEX | 3053 | TID_CCNV3_ CHK_CONV_SUP_EXIT | |
| 2 | HEX | 3054 | TID_CCNV3_ENTRY | @LEA |
| 2 | HEX | 3055 | TID_CCNV3_EXIT | @LEA |
| 2 | HEX | 3056 | TID_CCNV3_INV_FUNCTION | @LEA |
| 2 | HEX | 3057 | TID_CCNV3_3270_ENTRY | @LIC |
| 2 | HEX | 3058 | TID_CCNV3_DS3270_ENTRY | @LIC |
| 2 | HEX | 3059 | TID_CCNV3_DS3270_EXIT | @LIC |
| 2 | HEX | 305A | TID_CCNV3_3270_EXIT | @LIC |
| 2 | HEX | 305B | TID_CCNV3_ 3270_LEN_ZERO | @LIC |
| 2 | HEX | 305C | TID_CCNV3_BAD_TARGET | @LIC |
| 2 | HEX | 305D | TID_CCNV3_ TOKEN_CKR_BAD | @LIC |
| 2 | HEX | 305E | TID_CCNV3_ TOKEN_CLX_BAD | @LIC |
| 2 | HEX | 305F | TID_CCNV3_ TOKEN_SRX_BAD | @LIC |
| 2 | HEX | 3060 | TID_CCNV3_ SBCSTOK_CHAR_BAD | |
| 2 | HEX | 3061 | TID_CCNV3_3270_SBA_BAD | @LIC |
| 2 | HEX | 3062 | TID_CCNV3_3270_SF_BAD | @LIC |
| 2 | HEX | 3063 | TID_CCNV3_ 3270_SFEMF_BAD | @LIC |
| 2 | HEX | 3064 | TID_CCNV3_3270_SA_BAD | @LIC |
| 2 | HEX | 3065 | TID_CCNV3_3270_RA_BAD | @LIC |
| 2 | HEX | 3066 | TID_CCNV3_ 3270_GE_UNSUP | @LIC |
| 2 | HEX | 3067 | TID_CCNV3_3270_EUA_BAD | @LIC |
| 2 | HEX | 3068 | TID_CCNV3_ AID3270_ENTRY | @LIC |
| 2 | HEX | 3069 | TID_CCNV3_AID3270_EXIT | @LEA |
| 2 | HEX | 306A | TID_CCNV3_ BAD_AID_TARGET | @LEA |
| 2 | HEX | 306B | TID_CCNV3_ FREE_CONV_TOKEN_ ENTRY | @LIA |
| 2 | HEX | 306C | TID_CCNV3_ FREE_CONV_TOKEN_EXIT | @LIA |
| 2 | HEX | 306D | TID_CCNV3_ GETMAIN_FAILURE | |
| 2 | HEX | 306E | TID_CCNV3_ FREEMAIN_FAILURE | |
| 2 | HEX | 306F | TID_CCNV3_ SBA_TOO_HIGH | @LIA |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|------|-------------------------|-------------|
| 2 | HEX | 3070 | TID_CCNV3_ | |
| | | | DBCS_MAP_BEFORE | |
| 2 | HEX | 3071 | TID_CCNV3_ | @LIA |
| | | | DBCS_MAP_AFTER | |
| 2 | HEX | 3072 | TID_CCNV3_ | @LIA |
| | | | GET_CONV_TOKEN_ENTRY | |
| 2 | HEX | 3073 | TID_CCNV3_ | @LIA |
| | | | GET_CONV_TOKEN_EXIT | |
| 2 | HEX | 3074 | TID_CCNV3_ | @LIA |
| | | | TOKEN_ADDR_BAD | |
| 2 | HEX | 3075 | TID_CCNV3_ | |
| | | | 3270_CONV_LEN_ZERO | |
| <hr/> | | | | |
| DFHZGAI | | | | |
| 2 | HEX | FA00 | TID_ZGAI_ENTRY | @D1A |
| 2 | HEX | FA01 | TID_ZGAI_EXIT | @D1A |
| 2 | HEX | FA02 | TID_ZGAI_INVALID_FORMAT | @D1A |
| 2 | HEX | FA03 | TID_ZGAI_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | FA04 | TID_ZGAI_ | |
| | | | RECOVERY_ENTERED | |
| 2 | HEX | FA05 | TID_ZGAI_ | @D1A |
| | | | USEREXIT_ENTRY | |
| 2 | HEX | FA06 | TID_ZGAI_USEREXIT_EXIT | @D1A |
| 2 | HEX | FA07 | TID_ZGAI_USER_VETOED | @D1A |
| 2 | HEX | FA08 | TID_ZGAI_ | @D1A |
| | | | NO_TEMPLATE_SUPPLIED | |
| 2 | HEX | FA09 | TID_ZGAI_SYSID_INVALID | @D1A |
| 2 | HEX | FA0A | TID_ZGAI_ | @D1A |
| | | | SYSID_ALREADY_EXISTS | |
| 2 | HEX | FA0B | TID_ZGAI_ | |
| | | | TEMPLATEN_NOT_FOUND | |
| 2 | HEX | FA0C | TID_ZGAI_ | |
| | | | TEMPLATES_NOT_FOUND | |
| 2 | HEX | FA0D | TID_ZGAI_ | |
| | | | NOT_APPC_TEMPLATE | |
| 2 | HEX | FA0E | TID_ZGAI_ | @D1A |
| | | | TEMPLATE_NOT_PS | |
| 2 | HEX | FA0F | TID_ZGAI_ | @D1A |
| | | | TEMPLATE_NOT_SS | |
| 2 | HEX | FA10 | TID_ZGAI_ | |
| | | | MODENAME_MISMATCH | |
| 2 | HEX | FA11 | TID_ZGAI_SYSID_INQUIRE_ | @D1A |
| | | | FAILED | |
| 2 | HEX | FA12 | TID_ZGAI_ | @D1A |
| | | | SESSION_INQUIRE_FAILED | |
| 2 | HEX | FA13 | TID_ZGAI_ | @D1A |
| | | | TEMPLATE_NO_MODEGROUP | |
| 2 | HEX | FA14 | TID_ZGAI_ | @D1A |
| | | | OUT_OF_SERVICE | |
| 2 | HEX | FA15 | TID_ZGAI_ | @D1A |
| | | | BINDUD_PLUNAME_ | |
| | | | MISSING | |
| 2 | HEX | FA16 | TID_ZGAI_ | @D1A |
| | | | BINDUD_MODENAME_ | |
| | | | MISSING | |
| 2 | HEX | FA18 | TID_ZGAI_SESSID_MISSING | @D1A |
| 2 | HEX | FA19 | TID_ZGAI_ | @D1A |
| | | | PLUNAME_MISSING | |
| 2 | HEX | FA1A | TID_ZGAI_PLU_EQ_SLU | @D1A |
| 2 | HEX | FA1B | TID_ZGAI_SEED_EXPECTED | @D1A |
| 2 | HEX | FA1C | TID_ZGAI_SEED_LONG | @D1A |
| 2 | HEX | FA1D | TID_ZGAI_ | @D1A |
| | | | SEED_UNEXPECTED | |
| 2 | HEX | FA1E | TID_ZGAI_ | @D1A |
| | | | NOT_NEGOTIABLE | |
| 2 | HEX | FA1F | TID_ZGAI_1RY_RU_0 | @D1A |
| 2 | HEX | FA20 | TID_ZGAI_2RY_RU_0 | @D1A |
| 2 | HEX | FA21 | TID_ZGAI_ | @D1A |
| | | | ACC_SEC_INVALID | |
| 2 | HEX | FA22 | TID_ZGAI_ | @L6A |
| | | | SEED_AND_NONCE | |
| 2 | HEX | FA23 | TID_ZGAI_NONCE_LENGTH | @L6A |
| 2 | HEX | FA24 | TID_ZGAI_ | @L6A |
| | | | NONCE_REQUIRED | |
| 2 | HEX | FA25 | TID_ZGAI_ | @L6A |
| | | | MECHANISM_SHORT | |
| 2 | HEX | FA26 | TID_ZGAI_ | @L6A |
| | | | NO_MECHANISMS | |
| 2 | HEX | FA27 | TID_ZGAI_ | |
| | | | MECHANISM_REQUIRED | |
| <hr/> | | | | |
| DFHZGXA | | | | |
| 2 | HEX | FA30 | TID_ZGXA_ENTRY | @L5A |
| 2 | HEX | FA31 | TID_ZGXA_EXIT | @L5A |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|------|-------------------------------------|-------------|
| 2 | HEX | FA32 | TID_ZGXA_ INVALID_FORMAT | @L5A |
| 2 | HEX | FA33 | TID_ZGXA_ INVALID_FUNCTION | |
| 2 | HEX | FA34 | TID_ZGXA_ RECOVERY_ENTERED | |
| 2 | HEX | FA35 | TID_ZGXA_12F6_MISSING | @L5A |
| 2 | HEX | FA36 | TID_ZGXA_12F6_LENGERR | @L5A |
| 2 | HEX | FA37 | TID_ZGXA_ RECEIVE_FAILED | @L5A |
| 2 | HEX | FA38 | TID_ZGXA_FF80_MISSING | @L5A |
| 2 | HEX | FA39 | TID_ZGXA_FF80_LENGERR | @L5A |
| 2 | HEX | FA3A | TID_ZGXA_ FF80_MECH_ID_ERR | |
| 2 | HEX | FA3B | TID_ZGXA_FF81_MISSING | @L5A |
| 2 | HEX | FA3C | TID_ZGXA_FF81_LENGERR | @L5A |
| 2 | HEX | FA3D | TID_ZGXA_ DELEG_NO_TICKET | @L5A |
| 2 | HEX | FA3E | TID_ZGXA_FF82_LENGERR | @L5A |
| 2 | HEX | FA3F | TID_ZGXA_FF83_LENGERR | @L5A |
| 2 | HEX | FA40 | TID_ZGXA_FF84_LENGERR | @L5A |
| 2 | HEX | FA41 | TID_ZGXA_ DUPLICATE_SUBFIELD | |
| 2 | HEX | FA42 | TID_ZGXA_ INVALID_SUBFIELD | |
| 2 | HEX | FA43 | TID_ZGXA_ TICKET_NO_AUTH | @L5A |
| 2 | HEX | FA44 | TID_ZGXA_ AUTH_REQD_BY_USER | |
| 2 | HEX | FA45 | TID_ZGXA_TICKET_MISSING | @L5A |
| 2 | HEX | FA46 | TID_ZGXA_INVALID_TICKET | @L5A |
| 2 | HEX | FA47 | TID_ZGXA_ SERVICE_TICKET_EXPIRED | @L5A |
| 2 | HEX | FA48 | TID_ZGXA_ INVALID_AUTHENTICATOR | @L5A |
| 2 | HEX | FA49 | TID_ZGXA_SIGNON_FAILED | @L5A |
| 2 | HEX | FA4A | TID_ZGXA_FMH5_12F6_OUT | @L5A |
| 2 | HEX | FA4B | TID_ZGXA_12F6_IN | @L5A |
| 2 | HEX | FA4C | TID_ZGXA_ SENDBUF_TOO_SMALL | |
| 2 | HEX | FA4D | TID_ZGXA_SEND_FAILED | @L5A |
| 2 | HEX | FA4E | TID_ZGXA_ MUTUAL_NO_AUTH | @L5A |
| 2 | HEX | FA4F | TID_ZGXA_ DAISY_CHAIN_ERROR1 | |
| <hr/> | | | | |
| DFHZGCH | | | | |
| 2 | HEX | FA50 | TID_ZGCH_ENTRY | @LBA |
| 2 | HEX | FA51 | TID_ZGCH_EXIT | @LBA |
| 2 | HEX | FA52 | TID_ZGCH_ BEFORE_CHANGE_MACRO | |
| 2 | HEX | FA53 | TID_ZGCH_ AFTER_CHANGE_MACRO | |
| 2 | HEX | FA54 | TID_ZGCH_ CHANGE_MACRO_FAILED | |
| 2 | HEX | FA55 | TID_ZGCH_ RECOVERY_ENTERED | |
| 2 | HEX | FA56 | TID_ZGCH_ ENDAFFIN_REJECTED | |
| 2 | HEX | FA57 | TID_ZGCH_ INVALID_FORMAT | @LBA |
| 2 | HEX | FA58 | TID_ZGCH_ INVALID_FUNCTION | |
| 2 | HEX | FA59 | TID_ZGCH_ZGTA_FAILED | @LCA |
| <hr/> | | | | |
| DFHZGTI | | | | |
| 2 | HEX | FA60 | TID_ZGTI_ENTRY | @L7A |
| 2 | HEX | FA61 | TID_ZGTI_EXIT | @L7A |
| 2 | HEX | FA62 | TID_ZGTI_INVALID_FORMAT | @L7A |
| 2 | HEX | FA63 | TID_ZGTI_ INVALID_FUNCTION | |
| 2 | HEX | FA64 | TID_ZGTI_ RECOVERY_ENTERED | |
| 2 | HEX | FA65 | TID_ZGTI_TERMID_INVALID | @L7A |
| 2 | HEX | FA66 | TID_ZGTI_SYSID_INVALID | @L7A |
| 2 | HEX | FA67 | TID_ZGTI_ NETNAME_INVALID | @L7A |
| 2 | HEX | FA68 | TID_ZGTI_TOKEN_INVALID | @L7A |
| 2 | HEX | FA69 | TID_ZGTI_TMP_ERROR | @L7A |
| 2 | HEX | FA6A | TID_ZGTI_DOMAIN_INVALID | @L7A |
| 2 | HEX | FA6B | TID_ZGTI_ INVALID_VTAM_ONLY | |
| 2 | HEX | FA6C | TID_ZGTI_UNIQUE_INVALID | @L7A |
| 2 | HEX | FA6D | TID_ZGTI_GETMAIN_FAILED | @L7A |
| 2 | HEX | FA6E | TID_ZGTI_ FREEMAIN_FAILED | @L7A |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|------|------------------------------------|-------------|
| 2 | HEX | FA6F | TID_ZGTI_PURGED | @L7A |
| 2 | HEX | FA70 | TID_ZGTI_ ISYSID_INVALID | @L7A |
| 2 | HEX | FA71 | TID_ZGTI_ RSYSID_INVALID | @L7A |
| 2 | HEX | FA72 | TID_ZGTI_ MBRNAME_INVALID | @LCA |
| <hr/> | | | | |
| DFHZGTA | | | | |
| 2 | HEX | FA80 | TID_ZGTA_ENTRY | @L9A |
| 2 | HEX | FA81 | TID_ZGTA_EXIT | @L9A |
| 2 | HEX | FA82 | TID_ZGTA_ INVALID_FORMAT | @L9A |
| 2 | HEX | FA83 | TID_ZGTA_ INVALID_FUNCTION | |
| 2 | HEX | FA84 | TID_ZGTA_ RECOVERY_ENTERED | |
| 2 | HEX | FA85 | TID_ZGTA_ TERMD_INVALID | @L9A |
| 2 | HEX | FA86 | TID_ZGTA_ SYSID_INVALID | @L9A |
| 2 | HEX | FA87 | TID_ZGTA_ NETNAME_INVALID | @L9A |
| 2 | HEX | FA88 | TID_ZGTA_ ISYSID_INVALID | @L9A |
| 2 | HEX | FA89 | TID_ZGTA_ UNIQUE_INVALID | @L9A |
| 2 | HEX | FA8A | TID_ZGTA_ RSYSID_INVALID | @L9A |
| 2 | HEX | FA8B | TID_ZGTA_ TMP_ERROR | @L9A |
| 2 | HEX | FA8C | TID_ZGTA_ DOMAIN_INVALID | @L9A |
| 2 | HEX | FA8D | TID_ZGTA_PURGED | @L9A |
| 2 | HEX | FA8E | TID_ZGTA_ERROR | @L9A |
| 2 | HEX | FA8F | TID_ZGTA_DISASTER | @L9A |
| 2 | HEX | FA90 | TID_ZGTA_ INVALID_RRAB | @L9A |
| 2 | HEX | FA91 | TID_ZGTA_ INQ_FAILED | @L9A |
| 2 | HEX | FA92 | TID_ZGTA_ RDUB_GET | @L9A |
| 2 | HEX | FA93 | TID_ZGTA_ RDUB_FREE | @L9A |
| 2 | HEX | FA94 | TID_ZGTA_ INVALID_RDAB | @L9A |
| 2 | HEX | FA95 | TID_ZGTA_ INVALID_RDUB | @L9A |
| 2 | HEX | FA96 | TID_ZGTA_ UNKNOWN_RRAB_RESP | |
| 2 | HEX | FA97 | TID_ZGTA_ NO_RRAB | @L9A |
| 2 | HEX | FA98 | TID_ZGTA_ ZGTI_ERROR | @L9A |
| 2 | HEX | FA99 | TID_ZGTA_ MBRNAME_INVALID | @LCA |
| 2 | HEX | FA9A | TID_ZGTA_ MBRNAME_ERROR | @LCA |
| <hr/> | | | | |
| DFHZGIN | | | | |
| 2 | HEX | FAB0 | TID_ZGIN_ENTRY | @D4A |
| 2 | HEX | FAB1 | TID_ZGIN_EXIT | @D4A |
| 2 | HEX | FAB2 | TID_ZGIN_ BEFORE_INQUIRE_ MACRO | @D4A |
| 2 | HEX | FAB3 | TID_ZGIN_ AFTER_INQUIRE_ MACRO | |
| 2 | HEX | FAB4 | TID_ZGIN_ INQUIRE_NQN_FAILED | |
| 2 | HEX | FAB5 | TID_ZGIN_ INQUIRE_SESSNAME_ FAILED | @D4A |
| 2 | HEX | FAB6 | TID_ZGIN_ RECOVERY_ENTERED | |
| 2 | HEX | FAB7 | TID_ZGIN_ NQN_REJECTED | @D4A |
| 2 | HEX | FAB8 | TID_ZGIN_ SESSNAME_REJECTED | |
| 2 | HEX | FAB9 | TID_ZGIN_ INVALID_FORMAT | @D4A |
| 2 | HEX | FABA | TID_ZGIN_ INVALID_FUNCTION | |
| <hr/> | | | | |
| DFHZGBM | | | | |
| 2 | HEX | FB00 | TID_ZGBM_ENTRY | |
| 2 | HEX | FB01 | TID_ZGBM_EXIT | |
| 2 | HEX | FB03 | TID_ZGBM_ INVALID_FUNCTION | |
| 2 | HEX | FB04 | TID_ZGBM_ RECOVERY_ENTERED | |
| 2 | HEX | FB05 | TID_ZGBM_ BITMAP_INVALID | |
| 2 | HEX | FB06 | TID_ZGBM_ SESSION_NAME_INVALID | |
| 2 | HEX | FB07 | TID_TCRP_ NO_BITMAP_STG | @LFC |
| <hr/> | | | | |
| DFHZGRP | | | | |
| 2 | HEX | FB10 | TID_ZGRP_ENTRY | |
| 2 | HEX | FB11 | TID_ZGRP_EXIT | |
| 2 | HEX | FB12 | TID_ZGRP_ QR_SWITCH_FAILED | |
| 2 | HEX | FB13 | TID_ZGRP_ INQ_INSUFF_STORAGE | |
| 2 | HEX | FB14 | TID_ZGRP_ RECOVERY_ENTERED | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|------|---|-------------|
| 2 | HEX | FB15 | TID_ZGRP_ OPNDST_INSUFF_STORAGE | |
| 2 | HEX | FB16 | TID_ZGRP_ RPL_INSUFF_STORAGE | |
| 2 | HEX | FB17 | TID_ZGRP_ INVALID_FORMAT | |
| 2 | HEX | FB18 | TID_ZGRP_ INVALID_FUNCTION | |
| 2 | HEX | FB19 | TID_ZGRP_ INVALID_STARTUP_TYPE | |
| 2 | HEX | FB1A | TID_ZGRP_VTAM_SOS | |
| 2 | HEX | FB1B | TID_ZGRP_INQUIRE_FAILED | |
| 2 | HEX | FB1C | TID_ZGRP_ INQUIRE_ACB_CLOSED | |
| 2 | HEX | FB1D | TID_ZGRP_ OPNDST_ACB_CLOSED | |
| 2 | HEX | FB1E | TID_ZGRP_UNBIND_ERROR | |
| 2 | HEX | FB1F | TID_ZGRP_BIND_INVALID | |
| 2 | HEX | FB20 | TID_ZGRP_OPNDST_FAILED | |
| 2 | HEX | FB21 | TID_ZGRP_ NO_STORAGE_OPNDST_ APPC | |
| 2 | HEX | FB22 | TID_ZGRP_ NO_STORAGE_OPNDST | |
| 2 | HEX | FB23 | TID_ZGRP_RA_FAILED | |
| 2 | HEX | FB24 | TID_ZGRP_NIB | @P5A |
| 2 | HEX | FB25 | TID_ZGRP_NIB_MISMATCH | |
| 2 | HEX | FB26 | TID_ZGRP_ RA_GETMAIN_FAILED | |
| 2 | HEX | FB27 | TID_ZGRP_ BEFORE_INQUIRE_COUNTS | |
| 2 | HEX | FB28 | TID_ZGRP_ AFTER_INQUIRE_COUNTS | |
| 2 | HEX | FB29 | TID_ZGRP_ BEFORE_INQUIRE_ PERSESS | |
| 2 | HEX | FB2A | TID_ZGRP_ AFTER_INQUIRE_PERSESS | |
| 2 | HEX | FB2B | TID_ZGRP_ BEFORE_OPNDST | |
| 2 | HEX | FB2C | TID_ZGRP_AFTER_OPNDST | |
| 2 | HEX | FB2D | TID_ZGRP_BEFORE_RA | |
| 2 | HEX | FB2E | TID_ZGRP_AFTER_RA | |
| 2 | HEX | FB2F | TID_ZGRP_ BEFORE_INQ_EXECRPL | |
| 2 | HEX | FB30 | TID_ZGRP_ AFTER_INQ_EXECRPL | |
| 2 | HEX | FB31 | TID_ZGRP_ BEFORE_OPN_EXECRPL | |
| 2 | HEX | FB32 | TID_ZGRP_ AFTER_OPN_EXECRPL | |
| 2 | HEX | FB33 | TID_ZGRP_ BEFORE_RA_EXECRPL | |
| 2 | HEX | FB34 | TID_ZGRP_ AFTER_RA_EXECRPL | |
| 2 | HEX | FB35 | TID_ZGRP_ MBRNAME_ERROR | |
| <hr/> | | | | |
| DFHZCGRP | | | | |
| 2 | HEX | FB38 | TID_ZCGRP_ENTRY | |
| 2 | HEX | FB39 | TID_ZCGRP_EXIT | |
| <hr/> | | | | |
| DFHZGUB | | | | |
| 2 | HEX | FB40 | TID_ZGUB_ENTRY | |
| 2 | HEX | FB41 | TID_ZGUB_EXIT | |
| 2 | HEX | FB42 | TID_ZGUB_ INVALID_FORMAT | |
| 2 | HEX | FB43 | TID_ZGUB_ RECOVERY_ENTERED | |
| 2 | HEX | FB44 | TID_ZGUB_ INVALID_FUNCTION | |
| 2 | HEX | FB45 | TID_ZGUB_ACB_CLOSED | |
| 2 | HEX | FB46 | TID_ZGUB_UNBIND_FAILED | |
| 2 | HEX | FB47 | TID_ZGUB_VTAM_SOS | |
| 2 | HEX | FB48 | TID_ZGUB_UNBIND_ERROR | |
| 2 | HEX | FB49 | TID_ZGUB_ BEFORE_CLSDST | |
| 2 | HEX | FB4A | TID_ZGUB_AFTER_CLSDST | |
| 2 | HEX | FB4B | TID_ZGUB_ BEFORE_TERMSESS | |
| 2 | HEX | FB4C | TID_ZGUB_ AFTER_TERMSESS | |
| 2 | HEX | FB4D | TID_ZGUB_ BEFORE_UNBIND_EXECRPL | |
| 2 | HEX | FB4E | TID_ZGUB_ AFTER_UNBIND_EXECRPL | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------------------------|------|------|------------------------|-------------|
| DFHZGSL | | | | |
| 2 | HEX | FB50 | TID_ZGSL_ENTRY | |
| 2 | HEX | FB51 | TID_ZGSL_EXIT | |
| 2 | HEX | FB52 | TID_ZGSL_ | |
| | | | BEFORE_SETLOGON_P | |
| 2 | HEX | FB53 | TID_ZGSL_ | |
| | | | AFTER_SETLOGON_P | |
| 2 | HEX | FB54 | TID_ZGSL_ | |
| | | | BEFORE_SETLOGON_NP | |
| 2 | HEX | FB55 | TID_ZGSL_ | |
| | | | AFTER_SETLOGON_NP | |
| 2 | HEX | FB57 | TID_ZGSL_ | |
| | | | RECOVERY_ENTERED | |
| 2 | HEX | FB58 | TID_ZGSL_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | FB59 | TID_ZGSL_ | |
| | | | INVALID_FORMAT | |
| 2 | HEX | FB5A | TID_ZGSL_ | |
| | | | INVALID_PSDI_VALUE | |
| 2 | HEX | FB5B | TID_ZGSL_ | |
| | | | SETLOGON_FAILED | |
| DFHZGCC | | | | |
| 2 | HEX | FB60 | TID_ZGCC_ENTRY | @L1A |
| 2 | HEX | FB61 | TID_ZGCC_EXIT | @L1A |
| 2 | HEX | FB62 | TID_ZGCC_ | @L1A |
| | | | INVALID_FORMAT | |
| 2 | HEX | FB63 | TID_ZGCC_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | FB64 | TID_ZGCC_ | |
| | | | RECOVERY_ENTERED | |
| DFHZGPC | | | | |
| 2 | HEX | FB65 | TID_ZGPC_ENTRY | @L1A |
| 2 | HEX | FB66 | TID_ZGPC_EXIT | @L1A |
| 2 | HEX | FB67 | TID_ZGPC_ | @L1A |
| | | | INVALID_FORMAT | |
| 2 | HEX | FB68 | TID_ZGPC_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | FB69 | TID_ZGPC_ | |
| | | | RECOVERY_ENTERED | |
| 2 | HEX | FB6A | TID_ZGPC_BIND_MISMATCH | @L1A |
| 2 | HEX | FB6B | TID_ZGPC_ | @L1A |
| | | | NO_SESSION_AVAILABLE | |
| DFHZXRC | | | | |
| 2 | HEX | FB70 | TID_ZXRC_V29_DATA | @L3A |
| DFHZGDA | | | | |
| 2 | HEX | FB71 | TID_ZGDA_ENTRY | @L3A |
| 2 | HEX | FB72 | TID_ZGDA_EXIT | @L3A |
| 2 | HEX | FB73 | TID_ZGDA_ | |
| | | | INVALID_FUNCTION | |
| 2 | HEX | FB74 | TID_ZGDA_ | @L3A |
| | | | INVALID_FORMAT | |
| 2 | HEX | FB75 | TID_ZGDA_ | |
| | | | SENSE_088B_RECEIVED | |
| 2 | HEX | FB76 | TID_ZGDA_ | |
| | | | INVALID_PRSS_STATUS | |
| 2 | HEX | FB77 | TID_ZGDA_ | @L3A |
| | | | RECEIVE_FAILED | |
| 2 | HEX | FB78 | TID_ZGDA_ | |
| | | | UNEXPECTED_RESPONSE | |
| 2 | HEX | FB79 | TID_ZGDA_ | @L3A |
| | | | BAD_BRACKET_STATE_ | |
| | | | SEND | |
| 2 | HEX | FB7A | TID_ZGDA_ | @L3A |
| | | | BAD_BRACKET_STATE_REC | |
| 2 | HEX | FB7B | TID_ZGDA_ | @L3A |
| | | | NO_STORAGE_FM7 | |
| 2 | HEX | FB7C | TID_ZGDA_RECOVERY | @L3A |
| 2 | HEX | FB7D | TID_ZGDA_ | |
| | | | UNEXPECTED_BR_STATE | |
| 2 | HEX | FB7E | TID_ZGDA_ | |
| | | | INVALID_TCTTE_PTR | |
| 2 | HEX | FB7F | TID_ZGDA_ | |
| | | | RECOVERY_ENTERED | |
| 2 | HEX | FB80 | TID_ZGDA_ | |
| | | | UNEXPECTED_CH_STATE | |
| DFHZGSL Generic resource | | | | |
| 2 | HEX | FB87 | TID_ZGSL_ | @D2A |
| | | | BEFORE_NIB_INIT | |
| 2 | HEX | FB88 | TID_ZGSL_ | @D2A |
| | | | AFTER_NIB_INIT | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|------|------|-----------------------------------|-------------|
| 2 | HEX | FB89 | TID_ZGSL_ BEFORE_ADD_GRNAME | |
| 2 | HEX | FB8A | TID_ZGSL_ AFTER_ADD_GRNAME | |
| 2 | HEX | FB8B | TID_ZGSL_ BEFORE_DELETE_GRNAME | @D2A |
| 2 | HEX | FB8C | TID_ZGSL_ AFTER_DELETE_GRNAME | |
| 2 | HEX | FB8D | TID_ZGSL_ NIB_INIT_FAILED | @D2A |
| 2 | HEX | FB8E | TID_ZGSL_ ADD_GRNAME_FAILED | |
| 2 | HEX | FB8F | TID_ZGSL_ DELETE_GRNAME_FAILED | @D2A |
| <hr/> | | | | |
| DFHZLS1 | | | | |
| 2 | HEX | FB90 | TID_ZLS1_ENTRY | @L2A |
| 2 | HEX | FB91 | TID_ZLS1_EXIT | @L2A |
| 2 | HEX | FB92 | TID_ZLS1_INVALID_START_ TYPE | |
| 2 | HEX | FB93 | TID_ZLS1_IC_GET_FAILED | @L2A |
| 2 | HEX | FB94 | TID_ZLS1_INVALID_FORMAT | @L2A |
| 2 | HEX | FB95 | TID_ZLS1_ INVALID_FUNCTION | |
| 2 | HEX | FB96 | TID_ZLS1_NO_RECV_DATA | @L2A |
| 2 | HEX | FB97 | TID_ZLS1_ INVALID_RECV_DATA | |
| <hr/> | | | | |
| DFHZGCM | | | | |
| 2 | HEX | FBA0 | TID_ZGCM_ENTRY | @L2A |
| 2 | HEX | FBA1 | TID_ZGCM_EXIT | @L2A |
| 2 | HEX | FBA2 | TID_ZGCM_ ADD_LOCK_FAILED | @L2A |
| 2 | HEX | FBA3 | TID_ZGCM_ ALLOCATE_FAILED | @L2A |
| 2 | HEX | FBA4 | TID_ZGCM_ALREADY_SHUT | @L2A |
| 2 | HEX | FBA5 | TID_ZGCM_ CNOS_IMPOSSIBLE | @L2A |
| 2 | HEX | FBA6 | TID_ZGCM_ GET_LOCK_FAILED | @L2A |
| 2 | HEX | FBA7 | TID_ZGCM_IN_SHUTDOWN | @L2A |
| 2 | HEX | FBA8 | TID_ZGCM_ INVALID_FORMAT | @L2A |
| 2 | HEX | FBA9 | TID_ZGCM_ INVALID_FUNCTION | |
| 2 | HEX | FBAA | TID_ZGCM_ INVALID_MODALNAME | |
| 2 | HEX | FBAB | TID_ZGCM_INVALID_SYSID | @L2A |
| 2 | HEX | FBAC | TID_ZGCM_ NO_TCME_FOUND | @L2A |
| 2 | HEX | FBAD | TID_ZGCM_ NO_TCTE_FOUND | @L2A |
| 2 | HEX | FBAE | TID_ZGCM_ RACE_IN_SHUTDOWN | |
| 2 | HEX | FBAF | TID_ZGCM_ RECEIVE_FAILED | @L2A |
| 2 | HEX | FBB0 | TID_ZGCM_ RECOVERY_ENTERED | |
| 2 | HEX | FBB1 | TID_ZGCM_SEND_FAILED | @L2A |
| 2 | HEX | FBB2 | TID_ZGCM_ SINGLE_SESS_ERROR | |
| 2 | HEX | FBB3 | TID_ZGCM_ SYSID_NOT_FOUND | @L2A |
| 2 | HEX | FBB4 | TID_ZGCM_TCSE_ERROR | @L2A |
| 2 | HEX | FBB5 | TID_ZGCM_ CNOS_COMMAND_OUT | @L2A |
| 2 | HEX | FBB6 | TID_ZGCM_ CNOS_COMMAND_IN | @L2A |
| 2 | HEX | FBB7 | TID_ZGCM_ CNOS_REPLY_OUT | @L2A |
| 2 | HEX | FBB8 | TID_ZGCM_ CNOS_REPLY_IN | @L2A |
| <hr/> | | | | |
| DFHZGCA | | | | |
| 2 | HEX | FBC0 | TID_ZGCA_ENTRY | @L2A |
| 2 | HEX | FBC1 | TID_ZGCA_EXIT | @L2A |
| 2 | HEX | FBC2 | TID_ZGCA_ENTRY_LEVEL2 | @L2A |
| 2 | HEX | FBC3 | TID_ZGCA_EXIT_LEVEL2 | @L2A |
| 2 | HEX | FBC4 | TID_ZGCA_ CURRENT_COUNTS | @L2A |
| 2 | HEX | FBC5 | TID_ZGCA_TC_MATRIX | @L2A |
| 2 | HEX | FBC6 | TID_ZGCA_ RECOVERY_ENTERED | |
| 2 | HEX | FBC7 | TID_ZGCA_ INVALID_FORMAT | @L2A |
| 2 | HEX | FBC8 | TID_ZGCA_ INVALID_FUNCTION | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|----------------------------|-----------|--------|--|-------------|
| 2 | HEX | FBC9 | TID_ZGCA_ CHANGE_INCOMPLETE | |
| DFHZXPS | | | | |
| 2 | HEX | FBD0 | TID_ZXPS_ENTRY | @L3A |
| 2 | HEX | FBD1 | TID_ZXPS_EXIT | @L3A |
| 2 | HEX | FBD2 | TID_ZXPS_BAD_TCTEPRSS | @L3A |
| 2 | HEX | FBD3 | TID_ZXPS_ CV29_DATA_MISSING | |
| 2 | HEX | FBD4 | TID_ZXPS_ INVALID_BIS_DATA | |
| 2 | HEX | FBD5 | TID_ZXPS_ INVALID_BID_DATA | |
| 2 | HEX | FBD7 | TID_ZXPS_ MISSING_BID_FLOW | |
| 2 | HEX | FBD8 | TID_ZXPS_INVALID_RUCAT | @L3A |
| 2 | HEX | FBD9 | TID_ZXPS_ INCONSISTENT_DATA_ FLOW | @L3A |
| 2 | HEX | FBDA | TID_ZXPS_ UNIDENTIFIED_RESPONSE | @L3A |
| 2 | HEX | FBDB | TID_ZXPS_ UNKNOWN_COMMAND | @L3A |
| 2 | HEX | FBDC | TID_ZXPS_ UNEXPECTED_BIS_RESP | |
| 2 | HEX | FBDD | TID_ZXPS_ UNKNOWN_CMD_RESPONSE | @L3A |
| 2 | HEX | FBDE | TID_ZXPS_ INVALID_BID_STATUS | |
| 2 | HEX | FBDF | TID_ZXPS_ INVALID_ZGDA_MODE | |
| 2 | HEX | FBE0 | TID_ZXPS_ INVALID_ZGDA_PARM | |
| 2 | HEX | FBE1 | TID_ZXPS_ UNKNOWN_STATE_ AFTER_SIG | @P6A |
| 2 | HEX | FBE4 | TID_ZXPS_ RECOVERY_ABANDONED | |
| 2 | HEX | FBE5 | TID_ZXPS_ RESETSR_FAILED | @L3A |
| 2 | HEX | FBE6 | TID_ZXPS_ TRACKING_DATA_MISSING | @L3A |
| 2 | HEX | FBE7 | TID_ZXPS_ DOMAIN_CALL_FAILED | |
| 2 | HEX | FBE9 | TID_ZXPS_CV29_TRACE | @P3C |
| 2 | HEX | FBEA | TID_ZXPS_ NO_BIS_RECOVERY | @P7A |
| DFHZGPR | | | | |
| 2 | HEX | FBF0 | TID_ZGPR_ENTRY | @L4A |
| 2 | HEX | FBF1 | TID_ZGPR_EXIT | @L4A |
| 2 | HEX | FBF2 | TID_ZGPR_ INVALID_FORMAT | @L4A |
| 2 | HEX | FBF3 | TID_ZGPR_ INVALID_FUNCTION | |
| 2 | HEX | FBF4 | TID_ZGPR_ INVALID_TCSE_PTR | |
| 2 | HEX | FBF5 | TID_ZGPR_ INCR_CCCC_ERROR | @L4A |
| 2 | HEX | FBF6 | TID_ZGPR_ DECR_CCCC_ERROR | @L4A |
| 2 | HEX | FBF7 | TID_ZGPR_ INQ_CCCC_ERROR | @L4A |
| 2 | HEX | FBF8 | TID_ZGPR_ RESET_CCCC_ERROR | |
| 2 | HEX | FBF9 | TID_ZGPR_ RECOVERY_ENTERED | |
| extra DFHZGDA | | | | |
| 2 | HEX | FBFA | TID_ZGDA_ REJ_ATT_INV_CH_STATE | @L4A |
| 2 | HEX | FBFB | TID_ZGDA_ REJ_ATT_INV_BR_STATE | @L4A |
| 2 | HEX | FBFC | TID_ZGDA_SEND_FAILED | @L4A |
| extra DFHZXPS | | | | |
| 2 | HEX | FBFD | TID_ZXPS_REJ_ATT_FAILED | @L4A |
| Standard message constants | | | | |
| 4 | DECIMAL | 1 | MNO_ABEND | |
| 8 | CHARACTER | ZC0001 | DCD_ABEND | |
| 4 | DECIMAL | 2 | MNO_SEVERE_ERROR | |
| 8 | CHARACTER | ZC0002 | DCD_SEVERE_ERROR | |
| 4 | DECIMAL | 3 | MNO_NO_STORAGE | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------------------------|-----------|--------|----------------|---------------------------|
| 8 | CHARACTER | ZC0003 | DCD_NO_STORAGE | |
| 2 | CHARACTER | ZC | COMPONENT_ID | |
| ===== | | | | |
| Persistent session constants | | | | |
| ===== | | | | |
| 4 | DECIMAL | 86399 | PSDI_MAX | 1 day in seconds less one |

ZGRP Persistent sessions control blocks

```

=====
CONTROL BLOCK NAME = DFHZGRPC
DESCRIPTIVE NAME = CICS PRSS initialisation blocks
The following control blocks are all created by DFHZGRP.
FUNCTION = PRSS_CV29
    This is SHARED CICS data which contains:
    CV29, FMH5, BIS and BID data.
    There will be one PRSS CV29 per OPNDST RESTOREd TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (EMER | VTAM_RESART) and is freemained by DFHZNCA when
    DFHZC0146 or DFHZC0156 (good PS recover) is issued,
    or when DFHZCLS is run to cover all the cases where
    the session failed to restore and was unbound.
STORAGE CLASS =
    SMMC SHARED_CICS
LOCATION =
    Chained of the TCTTE via TCTE_PRSS_CV29_PTR.
INNER CONTROL BLOCKS = none
FUNCTION = NIBLIST
    Persistent sessions INQUIRE NIBLIST - created and used by
    DFHZGRP to hold data supplied by VTAM containing the
    following information about each NIB that persists.
    See VTAM Programming SC31-6436 for a full description.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits.
STORAGE CLASS =
    USAGE(DOMAIN)
LOCATION =
    Anchored off the TCT Prefix TCTV_FIRST_NIBLIST_PTR
INNER CONTROL BLOCKS = See SC31-6436
FUNCTION = TCT_BIND
    Defines the bind in the TCT, starting with the length.
    This is used to copy the PRSS BIND into the TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (emergency restart or vtam restart) when logmode= n
    is used and freemained if and when the TCTTE is
    deleted.
STORAGE CLASS =
    ZCBIMG subpool
LOCATION =
    Anchored off TCTEBIMG
INNER CONTROL BLOCKS = none
FUNCTION = ZGRP_RPL
    Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits. However, if some of the RPLs are still active the
    pool will remain and then be re-used and freemained by
    subsequent dynamic OPEN VTAM ACB requests.
STORAGE CLASS =
    ZCNIBLST subpool
LOCATION =
    Anchored off the TCT Prefix TCTV_PRSS_RPL_POOL_PTR
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
=====
PRSS CV29 containing CV29, FMH5, BIS and BID data,
built by DFHZGRP from OPNDST RESTORE data and passed to DFHZXPC
and DFHZXRC (CV29 for terminals only).
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|---------------------------|
| (0) | STRUCTURE | 163 | PRSS_CV29_DATA | |
| (0) | CHARACTER | 91 | PRSS_CV29 | @P5C |
| (5B) | CHARACTER | 42 | PRSS_FMH5 | @P5C |
| (5B) | CHARACTER | 21 | FMH5_PS_DATA | FMH5 PLU to SLU data @L3A |
| (5B) | CHARACTER | 2 | FMH5_PSSEQ | FMH5 PLU to SLU seq. no. |
| (5D) | CHARACTER | 3 | FMH5_PSRH | FMH5 PLU to SLU RH @L3A |
| (60) | CHARACTER | 16 | FMH5_PSRU | FMH5 PLU to SLU RU @L3A |
| (70) | CHARACTER | 21 | FMH5_SP_DATA | FMH5 SLU to PLU data @L3A |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------|--------------------------|
| (70) | CHARACTER | 2 | FMH5_SPSEQ | FMH5 SLU to PLU seq. no. |
| (72) | CHARACTER | 3 | FMH5_SPRH | FMH5 SLU to PLU RH @L3A |
| (75) | CHARACTER | 16 | FMH5_SPRU | FMH5 SLU to PLU RU @L3A |
| (85) | CHARACTER | 20 | PRSS_BIS | @P5C |
| (85) | CHARACTER | 10 | BIS_PS_DATA | BIS PLU to SLU data @L3A |
| (85) | CHARACTER | 2 | BIS_PSSEQ | BIS PLU to SLU seq. no. |
| (87) | CHARACTER | 3 | BIS_PSRH | BIS PLU to SLU RH @L3A |
| (8A) | CHARACTER | 5 | BIS_PSRU | BIS PLU to SLU RU @L3A |
| (8F) | CHARACTER | 10 | BIS_SP_DATA | BIS SLU to PLU data @L3A |
| (8F) | CHARACTER | 2 | BIS_SPSEQ | BIS SLU to PLU seq. no. |
| (91) | CHARACTER | 3 | BIS_SPRH | BIS SLU to PLU RH @L3A |
| (94) | CHARACTER | 5 | BIS_SPRU | BIS SLU to PLU RU @L3A |
| (99) | CHARACTER | 10 | PRSS_BID | @P5C |
| (99) | CHARACTER | 2 | BID_SEQ | Bid sequence number @L3A |
| (9B) | CHARACTER | 3 | BID_RH | Bid RH @L3A |
| (9E) | CHARACTER | 5 | BID_RU | Bid RU @L3A |

```

=====
Persistent sessions NIBLIST - as produced by DFHZGRP as a result
or INQUIRE PERSESS and OPNDST RESTORE.
The NIB and BIND definitions should be replaced by the VTAM
versions when they become available. If they are not replaced
then they should be kept in step with the VTAM versions.
The NIBLIST is anchored from TCTV_FIRST_NIBLIST_PTR
=====
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|----------------------------|
| (0) | STRUCTURE | * | NIBLIST | |
| (0) | CHARACTER | 24 | NIBLIST_HEADER | |
| (0) | CHARACTER | 8 | EYECATCHER | >PRSSNBL |
| (8) | ADDRESS | 4 | CHAIN_PTR | next niblist |
| (C) | FULLWORD | 4 | NIB_COUNT | count of NIBS in this list |
| (10) | FULLWORD | 4 | UNBIND_COUNT | count of unbinds * |
| (14) | ADDRESS | 4 | TOP_NIBLIST | start of this block |
| (18) | CHARACTER | * | NIB_START | start of nibs |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------------|
| (0) | STRUCTURE | 64 | NIB | 1st of many NIBs |
| (0) | CHARACTER | 1 | * | Always 'DO'x @L6A |
| (1) | UNSIGNED | 1 | NIBFLG0 | @L6A |
| | | | 1... .. | Partner used member name |
| (2) | CHARACTER | 1 | * | @L6C |
| (3) | UNSIGNED | 1 | NIBLEN | Length of NIB @P5A |
| (4) | FULLWORD | 4 | NIBCID | CID |
| (8) | ADDRESS | 4 | NIBUSER | a(old_tctte) a(tctte) or 0 |
| (C) | CHARACTER | 8 | NIBSYM | Netname |
| (14) | CHARACTER | 8 | NIBMODE | |
| (14) | CHARACTER | 8 | NIBNET | Netid @L5A |
| (1C) | CHARACTER | 8 | NIBDEVCH | |
| (1C) | CHARACTER | 4 | * | |
| (20) | CHARACTER | 1 | DEVPHYSA | |
| (24) | CHARACTER | 4 | NIBPROCD | |
| (28) | UNSIGNED | 1 | NIBFLG1 | |
| | | | 1... .. | NIBLAST |
| | | | .1.. .. | NIBCON |
| (29) | UNSIGNED | 1 | NIBFLG2 | Off if last nib @P7C |
| | | | 11.. .. | |
| | | | ..1. | NIBPSPLU |
| | | | ...1 | NIBPSDFS |
| | | | 1... | NIBPSDFA |
| | | |1.. | NIBPSRSP |
| (2A) | CHARACTER | 2 | * | On if primary |
| (2C) | ADDRESS | 4 | NIBEXLST | On if Continue specific |
| (30) | CHARACTER | 8 | NIBGENN | On if Continue any |
| (30) | CHARACTER | 8 | NIBLMODE | On if RESP data mode |
| (38) | CHARACTER | 4 | * | @L2A |
| (3C) | ADDRESS | 4 | NIBRPARM | Generic resource name @L5A |
| | | | * | @L5A |
| | | | * | @L5C |
| | | | * | Pointer to restore plist |

```

RESTORE_PLIST_POINTERS
A set of 7 pointer per NIB in the NIBLIST. Pointed to by
NIBRPARM in the NIB.
They in turn, point to data supplied for each NIB by INQUIRE
PERSESS and OPNDST RESTORE.
    
```

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------------------|-------------|
| (0) | STRUCTURE | 28 | RESTORE_ PLIST_POINTERS | |
| (0) | ADDRESS | 4 | BIND_PTR | |
| (4) | ADDRESS | 4 | CV29_PTR | |
| (8) | ADDRESS | 4 | MODENAME_PTR | @P1C |
| (C) | ADDRESS | 4 | SESSID_PTR | @P1C |
| (10) | ADDRESS | 4 | FMH5_PTR | |
| (14) | ADDRESS | 4 | BID_PTR | |
| (18) | ADDRESS | 4 | BIS_PTR | |

BIND

Returned by INQUIRE PERSESS and pointed to by BIND_PTR
 The definition of fields within the bind should be replaced
 by the official VTAM ones.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|----------------------|
| (0) | STRUCTURE | 37 | BIND | |
| (0) | UNSIGNED | 1 | BINFMTY | Bind format and type |

3 binfmt bit(4), Bind format
 3 bintype bit(4), Bind type

| | | | | |
|------|--------------|----|----------|-------------------------------|
| (1) | UNSIGNED | 1 | BINFM | FM profile |
| (2) | UNSIGNED | 1 | BINTS | TS profile |
| (3) | CHARACTER | 3 | * | |
| (6) | BITSTRING | 1 | BINCMNP2 | 7 Send/Receive mode |
| | 111. | | * | |
| | ...1 | | BINBKFS | Bit X'10' Primary is brackets |
| | 1111 | | * | |
| (7) | BITSTRING | 1 | BINAPACE | 8 SLU send pacing |
| (8) | BITSTRING | 1 | BINRPACE | 9 SLU receive pacing |
| (9) | UNSIGNED | 1 | BINSRUSZ | 10 SLU max send RU size |
| (A) | UNSIGNED | 1 | BINPRUSZ | 11 PLU max send RU size |
| (B) | BITSTRING | 1 | BINSPACE | 12 PLU send pacing |
| (C) | BITSTRING | 1 | BINBPACE | 13 PLU receive pacing |
| (D) | UNSIGNED | 1 | BINLUP | 14 LU type |
| (E) | CHARACTER | 11 | BINPSCHR | Bytes 15-25 |
| (E) | BITSTRING | 1 | BINLULEV | 15 LU Type |
| (F) | BITSTRING | 1 | BINARCH1 | 16 Arch info 1 |
| (10) | CHARACTER | 5 | * | 17-21 |
| (15) | BITSTRING | 1 | BINFLG0 | 22 Flag byte |
| | 1... | | BINES | Bit X'80' Ext Sec Supp |
| | .111 1111 | | * | |
| (16) | BITSTRING | 1 | BINFLG1 | 23 Flag byte |
| | 111. | | * | |
| | ...1 | | BINCLSS | Bit X'01' Acc sec supp |
| | 11.. | | * | |
| |1. | | BINAVFS | Bit X'02' Already verif |
| |1 | | BINPV | Bit X'01' Persist verif |
| (17) | BITSTRING | 1 | BINFLG2 | 24 Flag byte |
| | 1... | | * | |
| | .1.. | | BINCSBK | Bit X'40' Sync level 2 |
| | ..1. | | BINCONF | Bit X'20' Sync level 1 |
| | ...1 | | * | |
| | 1... .. | | BINSECNH | Bit X'08' 2ry reinitiate |
| |1.. | | BINPRIMH | Bit X'04' 1ry reinitiate |
| |1. | | BINPSS | Bit X'02' parallel sess |
| |1 | | BINGDSVF | Bit X'01' CNOS supported |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|--------------------|-----|---------------|-----------------------|
| (18) | BITSTRING | 1 | BINFLG3 | 25 Flag byte |
| | 1... .. .1.. .. | | * BINLTDRC | Bit X'40' LR bit |
| (19) | BITSTRING | 1 | BINCRCTL | 26 Cryptography |
| (1A) | UNSIGNED | 1 | BINPRIML | 27 1ry LU name length |
| (1B) | CHARACTER | 8 | BINPRIM | 28-35 1ry LU name |

- If a bind returned in a persistent session niblist has a non 0 userdata length (BINUSEL) then the bind is followed by structured user data fields, including the modename, sessid, PLUNAME or SLUNAME.

| | | | | |
|------|-----------|---|---------|------------------------|
| (23) | UNSIGNED | 1 | BINUSEL | 36 Length of user data |
| (24) | CHARACTER | 1 | BINUSE | 37 First byte of data |

MODENAME (Prefixed by 'I02'x)
 Returned by INQUIRE PERSESS and pointed to by MODENAME_PTR

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-----------------------|
| (0) | STRUCTURE | 10 | MODENAME_STRUCT | |
| (0) | UNSIGNED | 1 | MODENAME_LENGTH | Length of modename+1 |
| (1) | UNSIGNED | 1 | MODENAME_KEY | Key '02' |
| (2) | CHARACTER | 8 | MODENAME | Modename used by CICS |

SESSID (Prefixed by 'I03'x)
 Returned by INQUIRE PERSESS and pointed to by SESSID_PTR.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------|----------------------|
| (0) | STRUCTURE | 10 | SESSID_STRUCT | |
| (0) | UNSIGNED | 1 | SESSID_LENGTH | Length of sessid + 1 |
| (1) | UNSIGNED | 1 | SESSID_KEY | Key '03' |
| (2) | CHARACTER | 8 | SESSID | Sessid used by CICS |

TCT_BIND
 Defines the bind in the TCT, starting with the length.
 Note: TCTEBIMG points beyond the flag in the first byte to the length, followed by the bind itself.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | 38 | TCT_BIND | |
| (0) | UNSIGNED | 1 | TCT_BIND_LENGTH | |
| (1) | CHARACTER | 13 | * | |
| (E) | UNSIGNED | 1 | TCT_BINLUP | |
| (F) | CHARACTER | 23 | * | @D2C |

RPL_POOL
 Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
 The block is obtained from the ZCNIBLST variable length subpool when DFHZGRP is entered and deleted by DFHZGRP if all the RPLs are inactive.
 The ECB is for use by DFHZGUB to wait until an RPL becomes free.
 The first RPL is for use by DFHZGRP - INQUIRE and OPNDST.
 The next 10 are for DFHZGUB, which initiates up to 10 CLSDSTs or TERMSESS's. After that it needs to wait for one to become inactive.
 The RPL POOL is anchored from TCTV_PRSS_RPL_POOL_PTR.
 The last 10 RPLs for use by DFHZGUB are anchored from TCTV_PRSS_UNBIND_RPLS_PTR

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--------------------------|
| (0) | STRUCTURE | * | ZGRP_RPL_POOL | |
| (0) | CHARACTER | 16 | RPL_POOL_HEADER | |
| (0) | CHARACTER | 8 | RPL_EYECATCHER | >PRSSRPL |
| (8) | ADDRESS | 4 | WAIT_RPL_ECB | DFHZGUB wait for RPL ECB |
| (C) | FULLWORD | 4 | RPL_SIZE | Size of each RPL |
| (10) | CHARACTER | * | ZGRP_RPL | |

Security Mechanisms subfield (prefixed by '..14')

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-------------------|---------------------------|
| (0) | STRUCTURE | * | SEC_MECH_STRUCT | @L4A |
| (0) | UNSIGNED | 1 | SEC_MECH_LENGTH | Length of struct - 1 @L4A |
| (1) | UNSIGNED | 1 | SEC_MECH_KEY | Key '14' @L4A |
| (2) | UNSIGNED | 1 | SEC_POLICY_LENGTH | security policy length |
| (3) | CHARACTER | * | * | |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|---------------------|--------------------------|
| (0) | STRUCTURE | * | EXT_SEC_MECH_STRUCT | @L4A |
| (0) | UNSIGNED | 1 | SEC_EXT_MECH_LEN | length of extended mechs |
| (1) | CHARACTER | * | SEC_EXT_MECH | mechanisms @L4A |
| (1) | CHARACTER | 1 | SEC_MECH_ID | mechanism id @L4A |
| (2) | UNSIGNED | 1 | SEC_MECH_POLICY | mechanism policy @L4A |
| | 1... .. | | SEC_POLICY_REQD | Bit X'80' Req sec supp |
| | .111 1111 | | * | @L4A extended mechanisms |

Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|--------------------------|-------------|
| 4 | DECIMAL | 164 | NIB_DATA_LENGTH | @P4A |
| SHORTEST_NIB_DATA_LENGTH Length of the shortest possible NIB data returned by VTAM INQUIRE PERSESS. | | | | |
| 4 | DECIMAL | 129 | SHORTEST_NIB_DATA_LENGTH | @P6A |
| OPNDST_DATA_LENGTH Length of one set of CV29, FMH5, BIS + BID. | | | | |
| 4 | DECIMAL | 163 | OPNDST_DATA_LENGTH | |

ZLUIT Zcp local userid table definition

CONTROL BLOCK NAME = DFHZLUIT
 DESCRIPTIVE NAME = CICS (ZCP) Local Userid Table definition.
 FUNCTION =
 This control block contains the DSECTs for:
 1) Local Userid Table (LUIT) entries.
 The LUIT contains a list of Userids, who are using Persistent Verification, and are considered ALREADY VERIFIED for use on this connection.
 2) The Local Userid Table Area (LUITA).
 This is the header for each LUIT, containing a pointer to the first LUIT entry, the SYSID associated with the LUIT, and some flags. This DSECT is physically part of the TCSE, but contains only those TCSE fields required by DFHZCUT to perform its functions.
 There is one LUIT per connection, composed of a LUITA header followed by one entry for each userid that is Persistently Signed On.
 Both of these control blocks are owned by DFHZCUT.
 LIFETIME =
 For the LUITA - Lifetime of the TCSE - connection lifetime.
 Destroyed when the TCSE is freed.
 For the LUIT entries - Task related. Tasks will attach and add or reuse LUIT entries. As tasks end, the use counts in the LUIT entries are decremented. If the entries have not been used for a set time (SIT - PVDELAY) the LUIT entries will be deleted.
 STORAGE CLASS =
 The LUITA is part of the TCSE
 The LUIT entries come from Subpool USIDTBL
 They have a fixed length of 32 bytes.
 LOCATION =
 LOCAL_USERID_TABLE_AREA (LUITA) is a field in the TCSE.
 LOCAL_USERID_TABLE_ELEMENT is chained off:
 LUITA_HEAD_POINTER (TCSELUIT) for the first LUIT entry
 LUIT_FORWARD_POINTER for the next LUIT entry
 (end of chain = Null pointer)
 INNER CONTROL BLOCKS =
 The LOCAL_USERID_TABLE_AREA is an inner control block of the TCSE defined at TCSEUTA
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 None
 DATA AREAS =
 None
 CONTROL BLOCKS =
 None
 GLOBAL VARIABLES (Macro pass) =
 None
 The Local Userid Table Area is a sub control block within the TCSE - at TCSEUTA.
 DFHZCUT uses the LUITA as the head control block for the LUIT.
 HEAD_POINTER points to the start of the LUIT element chain.
 SYSID is the 4 char connection sysid associated with the LUIT.
 FLAGS that are used in Time Out of the LUIT entries:
 TIME_OUT_IN_PROGRESS

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|----------------------------|-------------|
| (0) | STRUCTURE | 12 | LOCAL_USERID_TABLE_AREA | |
| (0) | ADDRESS | 4 | LUITA_HEAD_POINTER | |
| (4) | CHARACTER | 4 | LUITA_SYSID | |
| (8) | BITSTRING | 1 | LUITA_FLAGS | |
| | 1... | | LUITA_TIME_OUT_IN_PROGRESS | |
| | .111 1111 | | * | Reserved |
| (9) | CHARACTER | 3 | * | Reserved |

The Local Userid Table Elements consist of userids that are using Persistent Verification for a particular SYSID.

FORWARD_POINTER is used to chain to the next element - search

BACKWARD_POINTER is used when deleting entries from the middle of the list.

TIME_LAST_END_BRACKET is set to zero when the entry is added to the list. Subsequently, it is set to the 4 High Order bytes of the STCK macro time, whenever tasks that use the entry send an end bracket to complete the session (at task end). The time is used to remove the LUIT entry from the list if the count is zero, and the entry has not been used for a set time.

USE_COUNT is the total number of transactions currently running that are using this LUIT entry.

FLAGS

LOGICALLY_DELETED indicates that the LUIT entry has logically and architecturally been deleted, however since the use count is non zero, we must wait for the transactions that are currently using it to end, before we can Freemain it. Note. Instead of adding a new entry to the list a logically deleted entry can be made valid again. This saves us from having multiple entries for the same userid.

USERID is the userid (and length) that is using PV and can be considered Already Verified for use on the connection.

| Offset Hex | Type | Len | Name (Dim) | Description |
|------------|-----------|-----|-----------------------------|-------------|
| (0) | STRUCTURE | 32 | LOCAL_USERID_ TABLE_ELEMENT | |
| (0) | ADDRESS | 4 | LUIT_FORWARD_POINTER | |
| (4) | ADDRESS | 4 | LUIT_BACKWARD_POINTER | |
| (8) | UNSIGNED | 4 | LUIT_TIME_ LAST_END_BRACKET | |
| (C) | HALFWORD | 2 | LUIT_USE_COUNT | |
| (E) | UNSIGNED | 1 | LUIT_FLAGS | |
| | 1... .. | | LUIT_LOGICALLY_DELETED | |
| | .1.. .. | | LUIT_PENDING_TIME_OUT | |
| | ..11 1111 | | * | |
| (F) | CHARACTER | 9 | LUIT_USERID | |
| (F) | UNSIGNED | 1 | LUIT_USERID_LENGTH | |
| (10) | CHARACTER | 8 | LUIT_USERID_TEXT | |
| (18) | CHARACTER | 8 | * | Reserved |

ZRPL CICS VTAM rpl extension

CONTROL BLOCK NAME = DFHTCLPS
 DESCRIPTIVE NAME = CICS VTAM RPL and CICS Extension
 FUNCTION = CICS extension to the VTAM Request Parameter List
 for HPO (VTAM authorised path - SRB mode requests)
 The RPL is the parameter list used for VTAM request macros. A CICS extension, used mainly for requests made using HPO, is appended to it. The RPL and extension are always getmained together but the length of the extension does not affect RPLEN (used with the VTAM API).
 LIFETIME = Receive Any RPLs are getmained during initialisation by DFHZRPL and are never freemained.
 RPLs for other VTAM requests have task lifetime and are getmained/freemained by ZGET/ZFRE
 STORAGE CLASS = Receive Any RPLS are in the RAPOOL in subpool DFHAPD24.
 Other VTAM RPLs are in subpool ZCRPL
 LOCATION = The RAPOOL is addressed by TCTVRVRA
 Other RPLs are addressed by TCTERPLA
 INNER CONTROL BLOCKS = None
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES =
 DATA AREAS =
 CONTROL BLOCKS =
 GLOBAL VARIABLES (Macro pass) = VTAM AMSI globals are set
 CICS VTAM RPL Extension
 - to match the assembler dsect which is aligned on a full word boundary, this definition must start at the next full word after the end of the VTAM RPL extension.

| Offset | Type | Len | Name (Dim) | Description |
|--------|-----------|-----|------------|--------------------------------------|
| Hex | | | | |
| (0) | STRUCTURE | 36 | ZRPLEXTN | |
| (0) | ADDRESS | 4 | ZRPLCOMP | Completion address(on exit from SRB) |
| (0) | ADDRESS | 4 | ZRPLLINK | Exit link register save |
| (4) | ADDRESS | 4 | ZRPLTCTE | Actual TCTTE address |
| (8) | ADDRESS | 4 | ZRPLRETA | Return address from ZHPSR |
| (C) | ADDRESS | 4 | ZRPLERXA | LERAD or SYNAD entry point |
| (10) | ADDRESS | 4 | ZRPLSCHN | SRB chain |
| (14) | ADDRESS | 4 | ZRPLRSAX | SRB reg save area address |
| (18) | ADDRESS | 4 | ZRPLHPXA | SRB RPL executor ep address |
| (1C) | ADDRESS | 4 | ZRPLWRK1 | SRB work field |
| (20) | BITSTRING | 1 | * | |
| | 1... | | ZRPLZCL | Exit being called from ZDSP |
| | .1. | | ZRPLECB | ECB to be posted by ZDSP |
| | ..1. | | ZRPLNHT | No HTA used with request |
| | ...1 | | ZRPLLRQ | Long-term SRB |
| | 1... | | ZRPLSRB | RPL executed in SRB mode |
| |1.. | | ZRPLQIP | RPL on completion que for ZRLP |
| |1. | | ZRPLNRC | Notify when on completion queue |
| (21) | BITSTRING | 1 | * | |
| | 1... | | ZRPLERR | ZHPCH must call exit (ZSYX/ZLEX) |
| (22) | CHARACTER | 2 | * | Reserved |
| (24) | CHARACTER | | * | Alignment |

ZXQOD XRF tracking queue organiser

CONTROL BLOCK NAME = DFHZXQOD
 DESCRIPTIVE NAME = CICS XRF tracking queue organiser
 (DFHZXQO) interface declaration.
 FUNCTION = Declare interface to DFHZXQO.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS =
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = CSAXQONA in the CSA.
 GLOBAL VARIABLES (Macro pass) = None.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------|---------------------------------|
| (0) | STRUCTURE | 8 | XQOJECT | Vector for ZXQO |
| (0) | ADDRESS | 4 | XQOJECTN | ZXQO entry point |
| (4) | BITSTRING | 4 | XQOJECTE | ECB posted when ZXQO is drained |

Constants

| Len | Type | Value | Name | Description |
|-------------------------|-----------|-------|-------------------|------------------------|
| 1 | CHARACTER | I | XQO_REQ_INIT | |
| 1 | CHARACTER | A | XQO_REQ_ADDACT | |
| 1 | CHARACTER | P | XQO_REQ_POST | |
| 1 | CHARACTER | D | XQO_REQ_DRAIN | |
| XQO_ RESPONSE values :- | | | | |
| 4 | DECIMAL | 8 | XQO_RSP_BAD_REQC | OUT: Error |
| 4 | DECIMAL | 4 | XQO_RSP_ERROR | IN: (to POST) |
| 4 | DECIMAL | 3 | XQO_RSP_NOT_YET | OUT: Normal - queued |
| 4 | DECIMAL | 1 | XQO_RSP_SCHEDULED | IN: from RM_SCHEDULE |
| 4 | DECIMAL | 0 | XQO_RSP_NORMAL | OUT: Normal - complete |

ZXTR XRF tracking record header

CONTROL BLOCK NAME = DFHZXTR
 DESCRIPTIVE NAME = CICS XRF tracking record header.
 FUNCTION =
 Common part of records shipped to an XRF alternate
 to drive the tracking of various states.
 LIFETIME =
 Built by DFHTBSSP and the XRF catch-up transaction, and
 interpreted by DFHTCRP and DFHZXQO.
 STORAGE CLASS = Various.
 LOCATION = Various.
 INNER CONTROL BLOCKS =
 The tracking record contains a variable length data
 field which in some cases is a copy of the CICS catalog
 record.
 NOTES :
 DEPENDENCIES = S/370
 RESTRICTIONS = None.
 MODULE TYPE = Control block definition
 EXTERNAL REFERENCES = None.
 DATA AREAS = None.
 CONTROL BLOCKS = None.
 GLOBAL VARIABLES (Macro pass) = No sysgen globals.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|----------------|---|
| (0) | STRUCTURE | * | XTR_RECORD | Tracking record sent from the ACTIVE to the ALTERNATE |
| (0) | UNSIGNED | 2 | XTR_ID | Indicates whether it is a CATCHUP or TRACKING type record. |
| (2) | BITSTRING | 1 | * | Flags |
| (3) | CHARACTER | 1 | XTR_TYPE | Defines what the tracking record contains |
| (4) | CHARACTER | * | XTR_KEY | |
| (4) | UNSIGNED | 1 | XTR_KEY_LENGTH | Length of the key value. If this is 0 and XTR_ID is not XTR_ID_BROADCAST then this is the end-of-stream marker for a particular catchup. Any data will be ignored in this case. |
| (5) | CHARACTER | * | XTR_KEY_VALUE | A string that uniquely names the externalised object |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|--|
| (0) | STRUCTURE | * | XTR_DATA | Recovery record proper |
| (0) | UNSIGNED | 2 | XTR_DATA_LENGTH | |
| (2) | CHARACTER | * | XTR_DATA_STRING | Contains the externalised object(s) and associated object. |

The following structure maps XTR_DATA_STRING when used for tracking-control messages.
 In this case the following conventions exist:-
 (a) If XTR_ID is XTR_ID_BROADCAST then this is a start-of-stream record, which is the first record generated by a (new) active.
 (b) If XTR_ID is not XTR_ID_BROADCAST then this is a start-of-catchup record, and any backup waiting to do catchup may capture the value in XTR_ID which will be used in all subsequent records for this particular catchup.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-------------------------|
| (0) | STRUCTURE | * | XTR_XC_DATA | |
| (0) | BITSTRING | 1 | * | |
| | | | XTR_XC_STRM_WARM | Stream is cold |
| (1) | CHARACTER | 1 | * (*) | List of types in stream |
| (1) | CHARACTER | 1 | XTR_XC_TYPE_ELEM | Stream type |

The following structure maps XTR_DATA_STRING when used for session-state tracking messages.

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-----------------------|
| (0) | STRUCTURE | * | XTR_ST_DATA | |
| (0) | CHARACTER | 5 | XTR_ST_SHORT | Basic section |
| (0) | CHARACTER | 4 | XTR_ST_SESS_NAME | Session/terminal name |
| (4) | CHARACTER | 1 | XTR_ST_REQUEST | Request being shipped |
| (5) | BITSTRING | 1 | XTR_ST_FLAGS_1 | |
| | 1... .. | | XTR_ST_CAPABLE | XRF capable session |
| (6) | CHARACTER | * | XTR_ST_CORREL | Correlation id |
| (6) | UNSIGNED | 1 | XTR_ST_CORREL_LN | Length |
| (7) | CHARACTER | * | XTR_ST_CORREL_ID | Value |

This is now externalised

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | * | XTR_ST_LOG_DATA | Logon data |
| (0) | UNSIGNED | 2 | XTR_ST_LOGD_LEN | Length |
| (2) | CHARACTER | * | XTR_ST_LOGD_VAL | Value |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|-----------------|-------------|
| (0) | STRUCTURE | * | XTR_ST_BIND | BIND-image |
| (0) | UNSIGNED | 1 | XTR_ST_BIMG_LEN | Length |
| (1) | CHARACTER | * | XTR_ST_BIMG_VAL | Value |

| Offset Hex | Type | Len | Name (Dim) | Description |
|---------------|-----------|-----|------------------|-------------|
| (0) | STRUCTURE | * | XTR_SN_DATA | |
| (0) | CHARACTER | 4 | XTR_SN_SESS_NAME | |
| (4) | UNSIGNED | 1 | XTR_SN_REP_N | |
| (5) | CHARACTER | * | XTR_SN_REP | |

Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|-----------------|---------------------------|
| 4 | DECIMAL | 5 | XTR_RECORD_SIZE | |
| 4 | DECIMAL | 16 | XTR_MAX_KEYLEN | Maximum length of the obj |
| 4 | DECIMAL | 2 | XTR_DATA_SIZE | |

Used in XTR_ID

| | | | | |
|---|---------|-------|------------------|--|
| 2 | DECIMAL | 0 | XTR_ID_BROADCAST | General msg |
| 2 | DECIMAL | 65535 | XTR_ID_PENDING | XTR_ID_PENDING - used to indicate that a stream has been "opened" but nothing sent yet |

Used in XTR_TYPE

| | | | | |
|---|-----------|---|----------------------|------------------|
| 1 | CHARACTER | X | XTR_TYPE_CONTROL | Tracking control |
| 1 | CHARACTER | C | XTR_TYPE_ZC_CONTENTS | CONTENTS |
| 1 | CHARACTER | S | XTR_TYPE_ZC_SESSIONS | SESSIONS |
| 1 | CHARACTER | U | XTR_TYPE_SN | User ids |

Used in RESPONSE

| | | | | |
|---|---------|---|------------------|-----------------|
| 1 | DECIMAL | 0 | XTR_RSP_NORMAL | Normal response |
| 1 | DECIMAL | 8 | XTR_RSP_ERROR | Error response |
| 1 | DECIMAL | 4 | XTR_RSP_SHUTDOWN | Shutdown |
| 1 | DECIMAL | 1 | XTR_RSP_ALL_GONE | No backups |
| 4 | DECIMAL | 5 | XTR_SN_DATA_SIZE | |

Values used in XTS_ST_REQUEST:-

| | | | | |
|---|-----------|---|------------------|------------------|
| 1 | CHARACTER | 1 | XTR_ST_REQ_BIND | BIND completed |
| 1 | CHARACTER | 2 | XTR_ST_REQ_FREED | Logon data freed |
| 1 | CHARACTER | 3 | XTR_ST_REQ_UNBND | UNBIND completed |

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Special Characters

'29' XRF mapping session stste vector '29', TCV29 411
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| TCTECDSY | (BIT) | TCTTE | 370 | TCTEDMBD | (1C) | TCTTE | 400 |
| TCTECDT | (BIT) | TCTTE | 376 | TCTEDMBL | (20) | TCTTE | 400 |
| TCTECDV | (BIT) | TCTTE | 378 | TCTEDMCH | (0) | TCTTE | 400 |
| TCTECDX | (BIT) | TCTTE | 381 | TCTEDMCL | (BIT) | TCTTE | 400 |
| TCTECEA | (BIT) | TCTTE | 376 | TCTEDMDT | (E) | TCTTE | 400 |
| TCTECEBR | (BIT) | TCTTE | 397 | TCTEDME2 | (5) | TCTTE | 400 |
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| TCTECELP | (DC) | TCTTE | 370 | TCTEDMGC | (3A) | TCTTE | 365 |
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| TCTECFA | (BIT) | TCTTE | 376 | TCTEDMID | (17) | TCTTE | 400 |
| TCTECFR | (BIT) | TCTTE | 375 | TCTEDMIT | (BIT) | TCTTE | 400 |
| TCTECFSS | (BIT) | TCTTE | 376 | TCTEDMLG | 400 | | |
| TCTECGR | (BIT) | TCTTE | 375 | TCTEDMMI | (1B) | TCTTE | 400 |
| TCTECHLE | (BIT) | TACLE | 329 | TCTEDMMN | (35) | TCTTE | 365 |
| TCTECHMX | (192) | TCTTE | 375 | TCTEDMNN | (6) | TCTTE | 400 |
| TCTECHS | (BIT) | TCTTE | 376 | TCTEDMPD | (BIT) | TCTTE | 400 |
| TCTECHSS | (1DD) | TCTTE | 379 | TCTEDMQN | 400 | | |
| TCTECID | (17C) | TCTTE | 375 | TCTEDMRA | (BIT) | TCTTE | 400 |
| TCTECIP | (BIT) | TCTTE | 377 | TCTEDMRY | (BIT) | TCTTE | 400 |
| TCTECKR | (BIT) | TCTTE | 376 | TCTEDMS1 | (24) | TCTTE | 400 |
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| TCTECLIM | (1FF) | TCTTE | 381 | TCTEDMSL | (BIT) | TCTTE | 400 |
| TCTECLR | (BIT) | TCTTE | 376 | TCTEDMSM | (BIT) | TCTTE | 400 |
| TCTECLST | (1D8) | TCTTE | 379 | TCTEDMSN | (24) | TCTTE | 400 |
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| TCTECND | (BIT) | TCTTE | 370 | TCTEDMU2 | (27) | TCTTE | 400 |
| TCTECNO | (BIT) | TCTTE | 379 | TCTEDMUL | (BIT) | TCTTE | 400 |
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| TCTECON | (BIT) | TCTTE | 381 | TCTEDMYE | (34) | TCTTE | 365 |
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| TCTECRR | (BIT) | TCTTE | 375 | TCTEDZIP | (BIT) | TCTTE | 368 |
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| TCTECSL | (BIT) | TCTTE | 376 | TCTEEID1 | (1A1) | TCTTE | 375 |
| TCTECSM | (BIT) | TCTTE | 378 | TCTEEID2 | (1A2) | TCTTE | 375 |
| TCTECSNI | (BIT) | TCTTE | 380 | TCTEEID3 | (1A3) | TCTTE | 375 |
| TCTECSR | (BIT) | TCTTE | 376 | TCTEEIDA | (1A0) | TCTTE | 375 |
| TCTECSRI | 380 | | | TCTEEIDL | (9E) | TCTTE | 368 |
| TCTECSS | (BIT) | TCTTE | 375 | TCTEEIEX | (84) | TCTTE | 367 |
| TCTECTA | (BIT) | TCTTE | 376 | TCTEEILR | (80) | TCTTE | 367 |
| TCTECTI | (BIT) | TCTTE | 376 | TCTEELGM | (65) | TCTTE | 367 |
| TCTECTS | (BIT) | TCTTE | 376 | TCTEEMF | (1C7) | TCTTE | 377 |
| TCTECUSR | (56) | TCTTE | 398 | TCTEEMW | 377 | | |
| TCTECV0 | 1 | TCTTE | 406 | TCTEEMX | (BIT) | TCTTE | 373 |
| TCTECVD | (BIT) | TCTTE | 376 | TCTEEOC | (BIT) | TCTTE | 366 |
| TCTECVI | (BIT) | TCTTE | 376 | TCTEEOD | (BIT) | TCTTE | 380 |
| TCTECVR | (BIT) | TCTTE | 376 | TCTEERAC | (CF) | TCTTE | 370 |
| TCTECVT | (11) | TCTTE | 397 | TCTEERAF | (CD) | TCTTE | 370 |
| TCTECWT | (BIT) | TCTTE | 376 | TCTEERAH | (CE) | TCTTE | 370 |
| TCTECXA | (BIT) | TCTTE | 376 | TCTEERAI | (BIT) | TCTTE | 370 |
| TCTEDAB | 368 | | | TCTEERAL | (BIT) | TCTTE | 370 |
| TCTEDATL | (4C) | TCTTE | 398 | TCTEERIS | (1A8) | TCTTE | 375 |
| TCTEDCA | (BIT) | TCTTE | 376 | TCTEERIS | (1AA) | TCTTE | 375 |
| TCTEDEF | (BIT) | TCTTE | 378 | TCTEERIS | (1AC) | TCTTE | 375 |
| TCTEDEL | (BIT) | TCTTE | 376 | TCTEERIS | (1AE) | TCTTE | 375 |
| TCTEDELQ | 368 | | | TCTEERIS | (1B0) | TCTTE | 375 |
| TCTEDELQ | (BIT) | TCTTE | 368 | TCTEERIA | (1B2) | TCTTE | 375 |
| TCTEDEX | (BIT) | TCTTE | 397 | TCTEERL | (BIT) | TCTTE | 378 |
| TCTEDIBA | (58) | TCTTE | 367 | TCTEERP | (41) | TCTTE | 399 |
| TCTEDIBS | (BIT) | TCTTE | 369 | TCTEERS | (BIT) | TCTTE | 378 |

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| TCTEESC | (BIT) | TCTTE | 381 |
| TCTEESG | (BIT) | TCTTE | 377 |
| TCTEESR | (BIT) | TCTTE | 379 |
| TCTEESS | (BIT) | TCTTE | 376 |
| TCTEEWN | (BIT) | TCTTE | 366 |
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| TCTEFDM | (BIT) | TCTTE | 374 |
| TCTEFHA | (BIT) | TCTTE | 374 |
| TCTEFHD | (BIT) | TCTTE | 374 |
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| TCTEFMR | (BIT) | TCTTE | 397 |
| TCTEFMS | (BIT) | TCTTE | 397 |
| TCTEFMSA | (170) | TCTTE | 375 |
| TCTEFNB | (BIT) | TCTTE | 376 |
| TCTEFNL | (BIT) | TCTTE | 376 |
| TCTEFNPR | (BIT) | TCTTE | 380 |
| TCTEFNSP | (BIT) | TCTTE | 380 |
| TCTEFOD | 1 | TCTTE | 403 |
| TCTEFPD | (BIT) | TCTTE | 369 |
| TCTEFPP | (BIT) | TCTTE | 365 |
| TCTEFPX | (BIT) | TCTTE | 365 |
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| TCTEFUP | (BIT) | TCTTE | 380 |
| TCTEGAM | 1 | TCTTE | 403 |
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| TCTELFM | (BIT) | TCTTE | 374 |
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| TCTELNHP | (5C) | TCTTE | 398 |
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| TCTELIRI | (BIT) | TCTTE | 380 |
| TCTELLC | (3C) | TCTTE | 398 |
| TCTELLCT | (54) | TCTTE | 398 |
| TCTELLDC | (19C) | TCTTE | 375 |
| TCTELLK | (BIT) | TCTTE | 397 |
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| TCTELS26 | (BIT) | TCTTE | 381 |
| TCTELS27 | (BIT) | TCTTE | 381 |
| TCTELS28 | (BIT) | TCTTE | 381 |
| TCTELS29 | (BIT) | TCTTE | 381 |
| TCTELS30 | (BIT) | TCTTE | 381 |
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| TCTELS32 | (BIT) | TCTTE | 381 |
| TCTELSB | (1FD) | TCTTE | 381 |
| TCTELSE | (BIT) | TCTTE | 374 |
| TCTELSED | (3E) | TCTTE | 398 |
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| TCTELU4 | 1 | TCTTE | 403 |
| TCTELU6 | 1 | TCTTE | 403 |
| TCTELUJ | (BIT) | TCTTE | 365 |
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| TCTELUS | (BIT) | TCTTE | 376 |
| TCTELUSM | (BIT) | TCTTE | 368 |
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| TCTEMINL (B0) TCTTE 398 | TCTEOS 366 |
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| TCTEMROP (BIT) TCTTE 367 | TCTEOWO 374 |
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| TCTEMRST (95) TCTTE 368 | TCTEPAS (BIT) TCTTE 376 |
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TCTTEDLM (38) TCTTE 366
TCTTEDMP (FD) TCTTE 372
TCTTEDOC (102) TCTTE 371
TCTTEDOS (104) TCTTE 371
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| TCTTEEIA | (88) | TCTTE | 367 | TCTTEOE | (BE) | TCTTE | 369 |
| TCTTEELN | (0) | TCTTE | 396 | TCTTEOER | (BIT) | TCTTE | 369 |
| TCTTEEN | (D8) | TCTTE | 370 | TCTTEOFC | (BIT) | TCTTE | 365 |
| TCTTEEOD | (BIT) | TCTTE | 365 | TCTTEOFR | (BIT) | TCTTE | 369 |
| TCTTEEU | (BIT) | TCTTE | 369 | TCTTEOGA | (BIT) | TCTTE | 369 |
| TCTTEEXE | | | 396 | TCTTEOI | (25) | TCTTE | 365 |
| TCTTEFAA | (BIT) | TCTTE | 365 | TCTTEOIC | (BIT) | TCTTE | 369 |
| TCTTEFCP | (BIT) | TCTTE | 372 | TCTTEOLA | (BIT) | TCTTE | 369 |
| TCTTEFCV | (BIT) | TCTTE | 365 | TCTTEONR | (BIT) | TCTTE | 369 |
| TCTTEFDK | (BIT) | TCTTE | 365 | TCTTEOP | (2B) | TCTTE | 365 |
| TCTTEFIB | (33) | TCTTE | 365 | TCTTEORL | (BIT) | TCTTE | 369 |
| TCTTEFLG | (FC) | TCTTE | 371 | TCTTEORR | (BIT) | TCTTE | 369 |
| TCTTEFMB | (5) | TCTTE | 396 | TCTTEOS | (C5) | TCTTE | 369 |
| TCTTEFMP | (BIT) | TCTTE | 396 | TCTTEOSR | (BIT) | TCTTE | 369 |
| TCTTEFP7 | (BIT) | TCTTE | 365 | TCTTEOSS | (BIT) | TCTTE | 369 |
| TCTTEFPA | (BIT) | TCTTE | 365 | TCTTEOT | (BA) | TCTTE | 369 |
| TCTTEFRL | (BIT) | TCTTE | 367 | TCTTEOTI | (BIT) | TCTTE | 369 |
| TCTTEFSP | (BIT) | TCTTE | 365 | TCTTEOWL | (BIT) | TCTTE | 369 |
| TCTTEFTU | (BIT) | TCTTE | 365 | TCTTEOWR | (BIT) | TCTTE | 369 |
| TCTTEFX | (1F) | TCTTE | 365 | TCTTEOWS | (BIT) | TCTTE | 370 |
| TCTTEFXF | (BIT) | TCTTE | 365 | TCTTEPBF | (BIT) | TCTTE | 371 |
| TCTTEGU | (6C) | TCTTE | 367 | TCTTEPBI | (BIT) | TCTTE | 371 |
| TCTTEGWI | (BIT) | TCTTE | 369 | TCTTEPBK | (BIT) | TCTTE | 369 |
| TCTTEHIL | (BIT) | TCTTE | 367 | TCTTEPBM | (BIT) | TCTTE | 369 |
| TCTTEICI | (BIT) | TCTTE | 372 | TCTTEPCR | | | 364 |
| TCTTEINV | (BIT) | TCTTE | 370 | TCTTEPCW | (BIT) | TCTTE | 364 |
| TCTTEIO | (C2) | TCTTE | 369 | TCTTEPDA | | | 371 |
| TCTTEIO2 | (C3) | TCTTE | 369 | TCTTEPDI | (BIT) | TCTTE | 371 |
| TCTTEIRF | (BIT) | TCTTE | 372 | TCTTEPG3 | (BIT) | TCTTE | 396 |
| TCTTEISC | 1 | TCTTE | 403 | TCTTEPGA | (BIT) | TCTTE | 396 |
| TCTTEISL | 1 | TCTTE | 403 | TCTTEPGB | (B) | TCTTE | 396 |
| TCTTEIST | (90) | TCTTE | 368 | TCTTEPGC | (8) | TCTTE | 396 |
| TCTTELCE | (EC) | TCTTE | 398 | TCTTEPGD | (BIT) | TCTTE | 396 |
| TCTTELDC | | | 396 | TCTTEPGG | (BIT) | TCTTE | 396 |
| TCTTELEA | (70) | TCTTE | 367 | TCTTEPGI | (BIT) | TCTTE | 396 |
| TCTTEPL | (AC) | TCTTE | 368 | TCTTEPGL | (7) | TCTTE | 396 |
| TCTTELP | (BIT) | TCTTE | 365 | TCTTEPGM | (20) | TCTTE | 396 |
| TCTTELSV | (100) | TCTTE | 371 | TCTTEPGO | (BIT) | TCTTE | 396 |
| TCTTELUC | (0) | TCTTE | 397 | TCTTEPGP | (BIT) | TCTTE | 396 |
| TCTTELUL | | | 397 | TCTTEPGR | (BIT) | TCTTE | 396 |
| TCTTELUN | (34) | TCTTE | 365 | TCTTEPIP | (BIT) | TCTTE | 372 |
| TCTTELUS | 1 | TCTTE | 403 | TCTTEPL | (BIT) | TCTTE | 366 |
| TCTTEMAP | (2C) | TCTTE | 396 | TCTTEPOS | (BIT) | TCTTE | 369 |
| TCTTEMBI | (BIT) | TCTTE | 370 | TCTTEPRC | (AE) | TCTTE | 368 |
| TCTTEMBR | (BIT) | TCTTE | 372 | TCTTEPRI | (BIT) | TCTTE | 371 |
| TCTTEMBW | (BIT) | TCTTE | 372 | TCTTEPRN | (BIT) | TCTTE | 367 |
| TCTTEMC0 | 1 | TCTTE | 405 | TCTTEPSA | (14) | TCTTE | 396 |
| TCTTEMC1 | (FC) | TCTTE | 372 | TCTTEPSE | (0) | TCTTE | 397 |
| TCTTEMEF | (BIT) | TCTTE | 372 | TCTTEPSI | (BIT) | TCTTE | 372 |
| TCTTEMFL | (10A) | TCTTE | 372 | TCTTEPSS | (BIT) | TCTTE | 367 |
| TCTTEMGI | (BIT) | TCTTE | 372 | TCTTEPUB | 1 | TCTTE | 403 |
| TCTTEMGP | 1 | TCTTE | 403 | TCTTEPX | | | 397 |
| TCTTEMID | | | 366 | TCTTEPYI | (BIT) | TCTTE | 371 |
| TCTTEMIQ | | | 372 | TCTTEQAP | (10) | TCTTE | 397 |
| TCTTEMIX | (BIT) | TCTTE | 367 | TCTTEQCL | (16) | TCTTE | 397 |
| TCTTEMLN | (108) | TCTTE | 372 | TCTTEQF | (C) | TCTTE | 397 |
| TCTTEMND | (BIT) | TCTTE | 370 | TCTTEQLC | (14) | TCTTE | 397 |
| TCTTEMOD | (1E4) | TCTTE | 379 | TCTTEQLN | (0) | TCTTE | 397 |
| TCTTEMSF | (BIT) | TCTTE | 372 | TCTTEQPM | | | 397 |
| TCTTEMSG | (BIT) | TCTTE | 372 | TCTTEQPT | (2) | TCTTE | 397 |
| TCTTEMSR | (BIT) | TCTTE | 367 | TCTTEQSD | (4) | TCTTE | 397 |
| TCTTEMSS | (10) | TCTTE | 396 | TCTTEQSL | (1) | TCTTE | 397 |
| TCTTEMTC | (BIT) | TCTTE | 372 | TCTTEQST | (4) | TCTTE | 397 |
| TCTTEMTD | (BIT) | TCTTE | 372 | TCTTEQYA | (BIT) | TCTTE | 367 |
| TCTTEMTI | (100) | TCTTE | 372 | TCTTEQYC | (BIT) | TCTTE | 367 |
| TCTTEMTU | (FC) | TCTTE | 372 | TCTTEQYN | (BIT) | TCTTE | 367 |
| TCTTEMWR | (BIT) | TCTTE | 372 | TCTTEQYP | (BIT) | TCTTE | 367 |
| TCTTENCO | 1 | TCTTE | 405 | TCTTERBI | (BIT) | TCTTE | 369 |
| TCTTENI | (B0) | TCTTE | 368 | TCTTERC | (24) | TCTTE | 365 |
| TCTTENLI | (28) | TCTTE | 365 | TCTTEREC | (A6) | TCTTE | 368 |
| TCTTENNM | (208) | TCTTE | 381 | TCTTERIN | (30) | TCTTE | 366 |
| TCTTENNO | (B4) | TCTTE | 368 | TCTTERKI | (BIT) | TCTTE | 372 |
| TCTTENR | (BIT) | TCTTE | 396 | TCTTERLA | (6C) | TCTTE | 367 |
| TCTTENRA | (BIT) | TCTTE | 396 | TCTTERLI | (BIT) | TCTTE | 372 |
| TCTTENSA | (31) | TCTTE | 366 | TCTTERMC | (BIT) | TCTTE | 364 |
| TCTTENTR | (BIT) | TCTTE | 369 | TCTTERMI | (BIT) | TCTTE | 364 |
| TCTTEOAO | (BIT) | TCTTE | 369 | TCTTERMN | (10F) | TCTTE | 372 |
| TCTTEOAT | (BIT) | TCTTE | 369 | TCTTERMP | | | 367 |
| TCTTEOBF | (BIT) | TCTTE | 396 | TCTTERMQ | (BIT) | TCTTE | 364 |
| TCTTEOBO | (BIT) | TCTTE | 396 | TCTTERMS | (BIT) | TCTTE | 364 |
| TCTTEOC | (C7) | TCTTE | 369 | TCTTERMT | (BIT) | TCTTE | 364 |
| TCTTEOCL | | | 396 | TCTTERPI | (BIT) | TCTTE | 369 |
| TCTTEODR | (BIT) | TCTTE | 369 | TCTTERPR | (BIT) | TCTTE | 369 |

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|-----------------------------|-------|-------|-----|
| TCTTERST | (74) | TCTTE | 367 |
| TCTTERTK | (D6) | TCTTE | 370 |
| TCTTERTT | (10E) | TCTTE | 372 |
| TCTTERTV | (20) | TCTTE | 365 |
| TCTTES3 | 1 | TCTTE | 403 |
| TCTTES7 | 1 | TCTTE | 403 |
| TCTTES7B | 1 | TCTTE | 403 |
| TCTTESA | (BIT) | TCTTE | 367 |
| TCTTESAT | (BIT) | TCTTE | 364 |
| TCTTESBI | (BIT) | TCTTE | 371 |
| TCTTESC | (8) | TCTTE | 364 |
| TCTTESCN | (BIT) | TCTTE | 371 |
| TCTTESCV | (A4) | TCTTE | 368 |
| TCTTESCW | (BIT) | TCTTE | 369 |
| TCTTESEG | (BIT) | TCTTE | 371 |
| TCTTESID | (32) | TCTTE | 366 |
| TCTTESKA | (70) | TCTTE | 367 |
| TCTTESKE | 1 | TCTTE | 403 |
| TCTTESNP | (BIT) | TCTTE | 364 |
| TCTTESOS | (BIT) | TCTTE | 364 |
| TCTTESPA | 372 | | |
| TCTTESPC | (F6) | TCTTE | 372 |
| TCTTESPO | (BIT) | TCTTE | 364 |
| TCTTESQC | (BIT) | TCTTE | 364 |
| TCTTESRE | (BIT) | TCTTE | 370 |
| TCTTESRO | (BIT) | TCTTE | 364 |
| TCTTESSF | (BIT) | TCTTE | 372 |
| TCTTESTA | (BIT) | TCTTE | 364 |
| TCTTESTI | (BIT) | TCTTE | 364 |
| TCTTESTU | (104) | TCTTE | 372 |
| TCTTESUA | (84) | TCTTE | 367 |
| TCTTESUS | (BIT) | TCTTE | 369 |
| TCTTET35 | 1 | TCTTE | 403 |
| TCTTET36 | 1 | TCTTE | 403 |
| TCTTET37 | 1 | TCTTE | 403 |
| TCTTET40 | 1 | TCTTE | 403 |
| TCTTET4C | 1 | TCTTE | 403 |
| TCTTET4E | 1 | TCTTE | 403 |
| TCTTET50 | 1 | TCTTE | 403 |
| TCTTET53 | 1 | TCTTE | 403 |
| TCTTET65 | 1 | TCTTE | 403 |
| TCTTET6L | 1 | TCTTE | 403 |
| TCTTET6R | 1 | TCTTE | 403 |
| TCTTET70 | 1 | TCTTE | 403 |
| TCTTET74 | 1 | TCTTE | 403 |
| TCTTET75 | 1 | TCTTE | 403 |
| TCTTET77 | 1 | TCTTE | 403 |
| TCTTET80 | 1 | TCTTE | 403 |
| TCTTET84 | 1 | TCTTE | 403 |
| TCTTET86 | 1 | TCTTE | 403 |
| TCTTETA | (6C) | TCTTE | 367 |
| TCTTETAB | (33) | TCTTE | 366 |
| TCTTETAM | 1 | TCTTE | 403 |
| TCTTETBI | 1 | TCTTE | 403 |
| TCTTETC | (7C) | TCTTE | 367 |
| TCTTETC1 | (C1) | TCTTE | 369 |
| TCTTETCM | (24) | TCTTE | 365 |
| TCTTETCR | 1 | TCTTE | 403 |
| TCTTETDE | (FC) | TCTTE | 371 |
| TCTTETDO | (30) | TCTTE | 365 |
| TCTTETE | (B8) | TCTTE | 369 |
| TCTTETEA | (78) | TCTTE | 367 |
| TCTTETEL | (54) | TCTTE | 367 |
| TCTTETEN | (56) | TCTTE | 367 |
| TCTTETFF | (BIT) | TCTTE | 396 |
| TCTTETFH | (BIT) | TCTTE | 396 |
| TCTTETFM | (BIT) | TCTTE | 396 |
| TCTTETFS | (5) | TCTTE | 396 |
| TCTTETFV | (BIT) | TCTTE | 396 |
| TCTTETHC | 1 | TCTTE | 403 |
| TCTTETI | (0) | TCTTE | 364 |
| TCTTETID | (34) | TCTTE | 366 |
| TCTTETIM | (210) | TCTTE | 381 |
| TCTTETIN | 1 | TCTTE | 403 |
| TCTTETL4 | 1 | TCTTE | 403 |
| TCTTETL6 | 1 | TCTTE | 403 |
| TCTTETL7 | 1 | TCTTE | 403 |
| TCTTETLM | (30) | TCTTE | 366 |
| TCTTETLX | 1 | TCTTE | 403 |
| TCTTETM | (5) | TCTTE | 364 |
| TCTTETM1 | (BIT) | TCTTE | 371 |
| TCTTETM2 | (BIT) | TCTTE | 371 |
| TCTTETM4 | (BIT) | TCTTE | 371 |
| TCTTETMC | (BIT) | TCTTE | 367 |
| TCTTETML | (F0) | TCTTE | 371 |
| TCTTETMT | 1 | TCTTE | 403 |
| TCTTETOT | (BIT) | TCTTE | 365 |
| TCTTETP | (D9) | TCTTE | 370 |
| TCTTETPA | (18) | TCTTE | 396 |
| TCTTETPD | 1 | TCTTE | 403 |
| TCTTETQN | (F4) | TCTTE | 371 |
| TCTTETRM | (BIT) | TCTTE | 369 |
| TCTTETRY | (BIT) | TCTTE | 369 |
| TCTTETS | (7) | TCTTE | 364 |
| TCTTETSC | (BIT) | TCTTE | 367 |
| TCTTETSD | 1 | TCTTE | 403 |
| TCTTETSY | 1 | TCTTE | 403 |
| TCTTETT | (4) | TCTTE | 364 |
| TCTTETTE | (0) | TCTTE | 396 |
| TCTTETTO | (BIT) | TCTTE | 370 |
| TCTTETTV | (FD) | TCTTE | 371 |
| TCTTETVO | 1 | TCTTE | 403 |
| TCTTETW | (BIT) | TCTTE | 365 |
| TCTTETWW | (BIT) | TCTTE | 369 |
| TCTTETWX | 1 | TCTTE | 403 |
| TCTTEUCN | (8C) | TCTTE | 367 |
| TCTTEUIP | (BIT) | TCTTE | 370 |
| TCTTEURC | (1E) | TCTTE | 365 |
| TCTTEUSE | (54) | TCTTE | 367 |
| TCTTEVAL | (BIT) | TCTTE | 367 |
| TCTTEVDA | (3C) | TCTTE | 366 |
| TCTTEWCI | (BIT) | TCTTE | 369 |
| TCTTEWCS | (103) | TCTTE | 371 |
| TCTTEWKF | 371 | | |
| TCTTEWLI | (BIT) | TCTTE | 372 |
| TCTTEX0 | (F0) | TCTTE | 371 |
| TCTTEX1 | (F0) | TCTTE | 371 |
| TCTTEXAC | (BIT) | TCTTE | 369 |
| TCTTEXHN | (1C) | TCTTE | 396 |
| TCTTEXLT | (BIT) | TCTTE | 371 |
| TCTTEY1 | (FC) | TCTTE | 371 |
| TCTTEY2 | (FC) | TCTTE | 371 |
| TCTTEY3 | (FC) | TCTTE | 372 |
| TCTTEY5 | (FC) | TCTTE | 372 |
| TCTTEZ0 | (A8) | TCTTE | 368 |
| TCTTEZ1 | (A8) | TCTTE | 368 |
| TCTTEZ2 | 368 | | |
| TCTTEZ3 | (A8) | TCTTE | 368 |
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| TCTV_BRIDGE_BITMAP | (590) | TCTFX | 360 |
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| TCTV_CESC_SCHEDULED | (BIT) | TCTFX | 361 |
| TCTV_CESC_TERM_TIMEOUT | 1 | TCTFX | 361 |
| TCTV_CESC_TIME | (5C4) | TCTFX | 361 |
| TCTV_CESC_XRF_TIMEOUT | 1 | TCTFX | 361 |
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| TCTV_GR_DEREGD | 1 | TCTFX | 362 |
| TCTV_GR_DEREGERR | 1 | TCTFX | 362 |
| TCTV_GR_NOTAPPL | 1 | TCTFX | 362 |
| TCTV_GR_NOTAVAIL | 1 | TCTFX | 362 |
| TCTV_GR_NOTREG | 1 | TCTFX | 362 |
| TCTV_GR_REGD | 1 | TCTFX | 361 |
| TCTV_GR_REGERR | 1 | TCTFX | 361 |
| TCTV_GRQL | 360 | | |
| TCTV_GRON | (59F) | TCTFX | 361 |
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| TCTV_LU61_HEAD | (120) | TCTFX | 356 |
| TCTV_MAXIMUM_IDLETIME | (604) | TCTFX | 361 |
| TCTV_MRO_BITMAP | (84) | TCTFX | 355 |
| TCTV_MRO_HEAD | (A4) | TCTFX | 356 |
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| TCTV_PRSS_CHUNK | (50C) | TCTFX | 360 |
| TCTV_PRSS_ERROR_COUNT | (548) | TCTFX | 360 |
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| TCTV_PRSS_INQUIRE_THRESHOLD | (510) | TCTFX | 360 |

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| TCTV_PRSS_LNKTABLE_PTR (534) TCTFX 360 | TCTVAECB (4E4) TCTFX 359 |
| TCTV_PRSS_NIB_COUNT (538) TCTFX 360 | TCTVAF (BIT) TCTFX 355 |
| TCTV_PRSS_OPNDST_COUNT (540) TCTFX 360 | TCTVAICA (BIT) TCTFX 357 |
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| TCTV_PSDI (524) TCTFX 360 | TCTVAPCC (16C) TCTFX 357 |
| TCTV_RA_2118_ISSUED (BIT) TCTFX 357 | TCTVAPCE (16C) TCTFX 357 |
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| TCTV_RA_STALL_COUNT (550) TCTFX 360 | TCTVAPWE 359 |
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| TCTV_REMDELS_OUT (630) TCTFX 361 | TCTVAXIT (215) TCTFX 357 |
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| TCTV_REMDINT (614) TCTFX 361 | TCTVCAC (BIT) TCTFX 356 |
| TCTV_RPL_NUMBER 1 TCTFX 361 | TCTVCCBC 1 TCTFX 361 |
| TCTV_RT_BITMAP (588) TCTFX 360 | TCTVCCCE (D0) TCTFX 356 |
| TCTV_SAVE_GRNAME (580) TCTFX 360 | TCTVCDME (D8) TCTFX 356 |
| TCTV_SKELETONS_BUILT (61C) TCTFX 361 | TCTVCECB (47C) TCTFX 359 |
| TCTV_SKELETONS_CURRENT (620) TCTFX 361 | TCTVCFO (BIT) TCPRA 352 |
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| TCTV_TOTAL_IDLETIME (60C) TCTFX 361 | TCTVCIQ (BIT) TCTFX 355 |
| TCTV_TRACE (92) TCTFX 355 | TCTVCLSS (BIT) TCTFX 354 |
| TCTV_VIRTTERM_BITMAP (58C) TCTFX 360 | TCTVCMR (BIT) TCPRA 352 |
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| TCTV_ZCN2 (564) TCTFX 360 | TCTVCNTE (2C) TCTFX 354 |
| TCTV_ZCNIBLST_TOKEN (518) TCTFX 360 | TCTVCONF (E8) TCTFX 356 |
| TCTV_ZGAI (5F4) TCTFX 361 | TCTVCPST 1 TCTFX 361 |
| TCTV_ZGBM (5D0) TCTFX 361 | TCTVCRPL (100) TCTFX 356 |
| TCTV_ZGCA (5F0) TCTFX 361 | TCTVCSAA (8) TCTFX 354 |
| TCTV_ZGCC (5E0) TCTFX 361 | TCTVCSAD (C) TCTFX 354 |
| TCTV_ZGCH (55C) TCTFX 360 | TCTVCSCL (C8) TCTFX 356 |
| TCTV_ZGCN (5EC) TCTFX 361 | TCTVCSQ (BIT) TCTFX 356 |
| TCTV_ZGDA (5E8) TCTFX 361 | TCTVCTCT (D4) TCTFX 356 |
| TCTV_ZGIN (560) TCTFX 360 | TCTVCUID (B2) TCTFX 356 |
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| TCTV_ZGRP_FAILED (BIT) TCTFX 360 | TCTVD0 (BIT) TCTFX 355 |
| TCTV_ZGRP_FIN_ECB (520) TCTFX 360 | TCTVDOC (15A) TCTFX 357 |
| TCTV_ZGSL (5D8) TCTFX 361 | TCTVDRSA (20) TCTFX 354 |
| TCTV_ZGTA (558) TCTFX 360 | TCTVDSPA (74) TCTFX 355 |
| TCTV_ZGTI (554) TCTFX 360 | TCTVECBC 1 TCTFX 361 |
| TCTV_ZGUB (5DC) TCTFX 361 | TCTVEODI (65) TCTFX 355 |
| TCTV_ZGXA 361 | TCTVER0 (2A0) TCTFX 358 |
| TCTV_ZLGX_SLUNAME 360 | TCTVER1 (2A4) TCTFX 358 |
| TCTV_ZLGX_TOKEN (57C) TCTFX 360 | TCTVER10 (2C8) TCTFX 358 |
| TCTV_ZSLS_ECB (1F4) TCTFX 357 | TCTVER11 (2CC) TCTFX 358 |
| TCTV31BA (BIT) TCTFX 354 | TCTVER12 (2D0) TCTFX 358 |
| TCTV32EA 356 | TCTVER14 (298) TCTFX 358 |
| TCTV32P4 (BC) TCTFX 356 | TCTVER15 (29C) TCTFX 358 |
| TCTV32PT (BA) TCTFX 356 | TCTVER2 (2A8) TCTFX 358 |
| TCTV32RB (B9) TCTFX 356 | TCTVER20 (2F0) TCTFX 358 |
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