



VisualAge Pacbase 2.5

**DSMS 2.5 BULL GCOS8-TP8/DMIV-TP
OPERATIONS MANUAL**

DEDD8000251A

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1. FOREWORD

FOREWORD

USE OF THE MANUAL

This manual is intended for the person in charge of the installation and for the DSMS Database Manager.

It describes the DSMS components, the environment, the batch procedures, the instructions for installing the new version and the procedures to be performed for a standard reinstallation of corrected versions.

NOTE

DSMS 2.5 requires a complete installation of the technical package, i.e. files, programs and batch procedures.

SITES WITH FORMER RELEASES

Once the installation is complete, refer to the relevant chapter for the upgrade of the site's previous release:

- Retrieval of DSMS 8.0.1 and adaptation to DSMS 2.5
- Retrieval of DSMS 8.02 v01 or v02 and adaptation to DSMS 2.5
- Retrieval of DSMS 8.0.2 v01 or v02 compatible with VA Pac 8.0.1 and adaptation to DSMS 2.5
- Retrieval of DSMS 1.2 as DSMS 2.5

and carefully follow the instructions in order to ensure compatibility between the new release and the former one.

GCOS8-SPECIFIC DSMS EVOLUTIONS

Regardless of the functional specifications attached to the new DSMS release, the GCOS8 release has included two major enhancements since the 8.0.2 release:

MANAGEMENT OF CONCURRENT BATCH/ON-LINE UPDATES:

This can be applied to several DUPT procedures active at the same time or to both DUPT procedures and TP8 processes. The implementation of this functionality is described in Chapter UPDATES, Subchapter 'INPUT-PROCESSING-RESULTS'.

INSTALLATION OF THE IBM INDEXED SEQUENTIAL ACCESS

The installation of the IBM indexed sequential access applies to data files and cross-references files.

This new management makes response times uniform whatever the update rate on the Database files. As these are no longer affected by desorganization, it is not necessary to frequently run the RESTORATION procedure. The Database Administrator should check changes on the new DMCL as well as the new IDSII file distribution.

TYPES OF DSMS INSTALLATIONS

DSMS may be installed with or without integration in the VA Pac environment.

If DSMS is installed WITHOUT INTEGRATION, the DSMS control of VA Pac update transactions does not work. The operations environment of the product installed must be independent of the VA Pac one. Installation parameters with a '*' as prefix must be different of the VA Pac installation parameters.

If DSMS is installed WITH INTEGRATION, VA Pac update transactions can be controlled by DSMS. The technical option retained integrates DSMS transactions in the VA Pac ON-LINE.

In this case, all update transactions are performed from the same IDSII schema.

All VA Pac procedures used for the product Database and ON-LINE management are still working in the new DSMS environment.

```

-----
I                                     I
I   Before installing the your new DSMS release,   I
I   you should read very carefully the following:   I
I                                                     I
I 1) Chapter INSTALLATION, for details on the inte- I
I   gration option, in order to fully understand   I
I   the procedure kinematics.                       I
I                                                     I
I 2) Chapter 'DSMS COMPONENTS', and particularly   I
I   Subchapter 'SYSTEM PARAMETERS', in order to   I
I   recognize the parameters common to DSMS and   I
I   and VA Pac.                                     I
I                                                     I
-----

```

MODIFICATION OF THE INSTALLATION PROCEDURE

The procedure for deparameterizing the JCLs (UTI110) includes a new functionality.

This functionality allows you to select or unselect JCLs to be deparameterized via the 'SEL' and 'NSL' commands of the parameter file.

EXAMPLE

To deparameterize the DRPE procedure's JCL only, insert the following command in the parameter file:

```
SELS8DRPE 1
```

To unselect this procedure, insert

```
NSLS8DRPE 1
```

The eight characters after 'SEL' and 'NSL' are the character string starting in column 78 in the file of the JCLs to be deparameterized.

This string begins with 'S8' and is followed, in most cases, if it is a procedure, by the reference code of the procedure in the JCL catalog.

Code '1' must be input anywhere from column 12. This code allows you to avoid low-values in the search string.

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DSMS COMPONENTS

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2. DSMS COMPONENTS

2.1. INTRODUCTION

INTRODUCTION

DSMS manages permanent data in batch and on-line mode.

Three types of resources are required for the operation of DSMS.

- Libraries which store the DSMS operating programs and system parameters:
 - . An on-line program library
 - . A batch program library

- Permanent files containing data manipulated by the DSMS system programs:
 - . A system file containing error messages and DSMS HELP documentation,
 - . User files containing the user and administrator data managed by DSMS.

- A library containing the operations parameters.

NOTE: This manual describes the installation and operation of DSMS. DSMS can be installed independently of other VisualAge Pacbase functions and facilities.

For further details on the operation of the Function itself, refer to the DSMS Reference Manual.

2.2. SYSTEM PARAMETERS

SYSTEM PARAMETERS

To allow users to customize DSMS to their particular site and to share files with different UMCs, the JCL supplied on the installation tape contains the parameters described below.

The parameters are coded '\$xxxx'. The '\$' sign signals the parameter and 'xxxx', the parameter code. The separator '.' is used in file names each time a parameter follows a character string which is not a parameter.

Parameterized names of libraries and files are discussed in this manual.

NOTE: The following chart lists standard installation parameters. If the user does not wish to put the database files or the backup files in the same catalog, it is possible to duplicate parameters as follows :

parameters		values
\$BASE.DA	---->	CAT1/DA
\$BASE.DC	---->	CAT2/DC
\$BASE.	---->	CAT3/

Thus, all the database files will be in the CAT3 catalog, except the DA file that will be in CAT1, and the DC file that will be in CAT2. The commands must be entered in that order, so that the parameters '\$BASE.DA' and '\$BASE.DC' are substituted before the parameter '\$BASE'.

PARAMETER CHART

The '*'-prefixed parameters must be identical to the VA Pac parameters if the installation provides for the integration of DSMS in VA Pac. Such an integration means utilization of a common TP monitor as well as common files.

In case of an integration under TP8, the whole DSMS environment must integrate in the VA Pac workstation by sharing a number of resources:

- Only one Library of TPRs
- Only one mailbox;
- Only one BEFORE JOURNAL;
- Only one \$RDY command.

The '\$JCL' parameter must be different from the parameter defined in the previous RELEASE.

In case of an integration under VA Pac, if UMCS and \$UMCSP parameters cannot be different, it is important that the DSMS \$SOURCE parameters and VA Pac \$SOURCE parameters be different. If not, the VA Pac DMCL, SYSGEN and WCL sources are overwritten.

! CODE	! MEANING	! DEFAULT
! BASE.	! Prefix of DSMS Database file name	! DSM/BAS/
!	!	!
!*BASP.	! Prefix of VA Pac Database file name	! PAC/BAS/
!	! if no integration --> default value!	!
!	!	!
! BDE	! =0 -> backup on tape	! N
!	! =N -> backup on disk	!
!	!	!
! DEST.	! 2nd part of the \$ IDENT card	! IBM-INST
!	!	!
!*FIL8.	! Prefix of TP8 system file names	! DSM/TP8/
!	!	!
!*FIL8	! same, stops at last catalog	! DSM/TP8

! CODE	! MEANING	! DEFAULT
! FILS.	! Prefix of system file names	! DSM/SYS/
! *FILT.	! Prefix of TDS file names	! DSM/TP4/
! FILU.	! Prefix of user file names	! DSM/FIL/
! FILU	! same, stops at last catalog	! DSM/FIL
! HSTAR.	! Prefix of DPRT, DEXT, DUPT link files	! DSM/HST/
! IDENT	! 1st part of the \$ IDENT card	! ABCD1234
! *JCLP.	! Prefix of JCL procedures in VA Pac (used only in case of integration)	! PAC/JCL/
! *JCLP	! Same, stops at the last catalog	! PAC/JCL
! JCLR.	! Prefix of previously installed JCL procedures (UMC + Catalog)	! ODSM/JCL/
! JCL.	! Prefix of JCL procedures	! DSM/JCL/
! JCL	! same, stops at last catalog	! DSM/JCL
! LANG	! Language code 'F' French, 'E' English	! F
! MB.	! Prefix of user input file names	! DSM/FIL/MB
! MV.	! Prefix of user output file names	! DSM/FIL/MV
! OBJBT.	! Prefix of batch program names	! DSM/BOBJ/
! OBJBP.	! Prefix of on-line program names	! DSM/TOBJ/

CODE	MEANING	DEFAULT
!*SCHEMA	Prefix of schema and sub-schema procedures	DSM/SCH/
!*SOURCE	Other sources (dmcl,sysgen,..)	DSM/SRC/
!*TDS	DMIV-TP connection name	IBMTP
!*UMCBP	UMC name for VA Pac database files If no integration, use a default value	PACB
!*UMCSP	UMC name for VA Pac system files If DSMS alone: UMCSP = UMCS(DSMS) If integration: UMCSP = UMCS(PBASE) and UMCSP different of UMCS(DSMS)	PACB
!*UMCUP	UMC name for VA Pac JCL procedures If no integration, use a default value	PACB
UMCB	UMC name for database files If integration, see VA Pac: UMCBD	DSMD
UMCI	UMC restoration name	DSMD
UMCS	UMC system file name	DSMD
!*UMCT	UMC DMIV-TP file name	DSMD
UMCU	UMC user file name and DSMS JCL procedures	DSMD
PWB	Password for 'UMCB' UMC	\$IBM
PWS	Password for 'UMCS' UMC	\$IBM
*PWT	Password for 'UMCT' UMC	\$IBM
PWU	Password for 'UMCU' UMC	\$IBM

! CODE	! MEANING	! DEFAULT	!
! RMTA	! W-Station code for ASCII printing	! XX	!
! RMTB	! W-Station code for BDCI printing	! ORG	!
!*NODE	! TP8 parameter indicating the ! operating node of the DSMS-TP8 ! workstation	! ABCD	!
!*TQN	! TP8 parameter indicating the ! name of the communication ! workstation (TQ)	! TQ	!
!*DSN	! TP8 parameter indicating the ! name of the DSMS-TP8 workstation	! DS	!
!*VIPMB	! TP8 parameter indicating the name ! of the communication mailbox for ! VIP-type terminals	! MBXVIP	!
!*TTYMB	! TP8 parameter indicating the name ! of the communication mailbox for ! TTY-type terminals	! MBXTTY	!
!*DSMB	! TP8 parameter indicating the name ! of the communication mailbox for ! the DSMS workstation	! DSMX	!

CHART OF PARAMETERIZED FILE NAMES

To choose parameter values, and to see the resulting DSMS system file names, the following charts list all parameterized files, by category (first parameter of their external name).

THE SYSTEM FILES

```
+-----+
! before parameterization! with default parameter value!
!-----!
! $UMCS/$OBJBT.pppppp      ! DSMD/DSM/BOBJ/pppppp      (*)!
! $UMCS/$OBJTP.pppppp     ! DSMD/DSM/TOBJ/pppppp     (*)!
! $UMCS/$FILS.AEO         ! DSMD/DSM/SYS/AEO         !
! $UMCS/$FILS.TEST        ! DSMD/DSM/SYS/TEST        !
+-----+
(*) 'pppppp' represents a program name
```

BATCH USER FILES

```
+-----+
! before parameterization! with default parameter values !
!-----!
! $UMCU/$FILU.DSAVn       ! DSMD/DSM/FIL/DSAVn       !
! $UMCU/$FILU.DARCn       ! DSMD/DSM/FIL/DARCn       !
! $UMCU/$FILU.DARCBQ      ! DSMD/DSM/FIL/DARCBQ      !
! $UMCU/$MB.mmmm         ! DSMD/DSM/FIL/MBmmmm      (*)!
! $UMCU/$MV.mmmm         ! DSM80/DSMD/FIL/MVmmmm    (*)!
+-----+
(*) 'mmmm' represents a procedure name (ex: DRST)
```

THE DSMS DATABASE FILES

```
+-----+
! before parameterization! with default parameter values !
!-----+
! $UMCB/$BASE.DE           ! DSMD/DSM/BAS/DE           !
! $UMCB/$BASE.ED           ! DSMD/DSM/BAS/ED           !
! $UMCB/$BASE.DH           ! DSMD/DSM/BAS/DH           !
! $UMCB/$BASE.DA           ! DSMD/DSM/BAS/DA           !
! $UMCB/$BASE.AD           ! DSMD/DSM/BAS/AD           !
! $UMCB/$BASE.DC           ! DSMD/DSM/BAS/DC           !
! $UMCB/$BASE.CD           ! DSMD/DSM/BAS/CD           !
! $UMCB/$BASE.DX           ! DSMD/DSM/BAS/DX           !
! $UMCB/$BASE.DJ           ! DSMD/DSM/BAS/DJ           !
! $UMCS/$SCHEMA.1STAR      ! DSMD/DSM/SCH/1STAR        !
! $UMCS/$SCHEMA.CSTARSG    ! DSMD/DSM/SCH/CSTARSG      !
! $UMCS/$SCHEMA.SSSG       ! DSMD/DSM/SCH/SSSG         !
+-----+
```

DSMS CATALOGS

DSMS can operate both in on-line and batch mode. Five catalogs are necessary:

- an on-line program catalog,
- a batch program catalog,
- a source catalog,
- a schema and sub-schema catalog,
- a JCL catalog.

2.3. ON-LINE PROGRAMS

ON-LINE PROGRAMS			
PROGRAM	ASSOCIATED CHOICE	COMMENTS	
CODE			
xxRYSG	Ready-TPR		
xxOAAO	First and last TPR		
xx00AA	Initial screen		
xx00AB	Abend map		
xx00BA	HC		
xx00B1	C		
xx00B2	C C		
xx00B3	C Q		
xx00B4	C M		
xx00B5	XS		
xx00EA	HE		
xx00E1	E		
xx00E2	C D	E DN/DT	
xx00E3	C F	E FN/FT	
xx00E4	C T	E T	
xx00E5	LCE		
xx00E6	C S	E S	
xx00FA	HPF		
xx00FB	HSC		
xx00HE	Help function		
xx00JO	JO		
xx00KA	HK		
xx00K1	LGKLAK		
xx00K2	LPK		
xx00K3	WS WU		
xx00LE	LDELNCLSELDC LNC		
xx00LS	LIE*...		
xx00MA	H (Main Menu)		
xx00PA	HP		
xx00P1	PL		
xx00QA	HQ		
xx00QB	Q C DD		
xx00QC	R CD		
xx00Q1	Q		
xx00Q2	Q D		
xx00Q3	LCQ		
xx00Q4	LVQ		
xx00Q5	LJQ		
xx00Q6	R		
xx00Q7	R L		

PROGRAM CODE	ASSOCIATED CHOICE - COMMENTS
! xx00Q8	! R C
! xx00Q9	! LCR
! xx00SA	! HS
! xx00SI	! S * . . . U
! xx00S1	! S * . . .
! xx00S3	! S * . . . V
! xx00S4	! S * . . . C
! xx00S5	! S * . . . LC
! xx00S6	! S * . . . G
! xx00S7	! LSS
! xx00S8	! LNS LCS
! xx00S9	! S * . . . LV
! xx00TA	! HT
! xx00TT	! TUP
! xx00TU	! TRA
! xx00TV	! TLA
! xx00TW	! TPH
! xx00TX	! TUG
! xx00TY	! TUS
! xx00TZ	! TOP
! xx00T1	! TST
! xx00T2	! TSU
! xx00T3	! TGR
! xx00T4	! TPR
! xx00T5	! TRE
! xx00T6	! TTY
! xx00T7	! TUD
! xx00T8	! TVE
! xx00T9	! TAT
! xx00UD	! Word-processor Upload/Download

NOTE : xx is the prefix of programs, corresponding to the value 'DS'.

2.4. BATCH PROGRAMS

THE BATCH PROGRAMS

! CODE	! PROC.	! COMMENTS	!
! DSUB1	! DUPT	! Sub-program for DUPT procedure	!
! DSUB2	! -	! -	!
! DSUB3	! -	! -	!
! DSUB4	! -	! -	!
! DSUE1	! -	! -	!
! DSUE2	! -	! -	!
! DSUE3	! -	! -	!
! DSUK1	! -	! -	!
! DSUP1	! -	! -	!
! DSUQ1	! -	! -	!
! DSUQ2	! -	! -	!
! DSUQ5	! -	! -	!
! DSUQ6	! -	! -	!
! DSUQ7	! -	! -	!
! DSUQ8	! -	! -	!
! DSUS1	! -	! -	!
! DSUS3	! -	! -	!
! DSUS4	! -	! -	!
! DSUS6	! -	! -	!
! DSUSI	! -	! -	!
! DSUT1	! -	! -	!
! DSUT2	! -	! -	!
! DSUT3	! -	! -	!
! DSUT4	! -	! -	!
! DSUT5	! -	! -	!
! DSUT6	! -	! -	!
! DSUT7	! -	! -	!
! DSUT8	! -	! -	!
! DSUT9	! -	! -	!
! DSUTT	! -	! -	!
! DSUTV	! -	! -	!
! DSUTW	! -	! -	!
! DSUTX	! -	! -	!
! DSUTY	! -	! -	!
! DSUTZ	! -	! -	!

! CODE	! PROC.	! COMMENTS	!
! PDS0RQ	! DEXT	! Preliminary analysis	!
!	! DPRT	!	!
! PDS1RQ	! DEXT	! Selects requests	!
!	! DPRT	!	!
! PDS2RQ	! -	! Formats elements	!
! PDS3RQ	! -	! Extraction and print	!
! PDS300	! DARC	! Archives journal	!
! PDS320	! -	! Re-initializes journal	!
! PDS380	! DRST	! Checks journal validity	!
! PDS400	! -	! Restores/re-initializes journal	!
! PDS450	! -	! Updates with archived transactions	!
! PDS500	! DSAV	! Backs up data/elements/references	!
! PDS600	! DEXP	! Extraction from VA Pac journal	!
! PDS610	! -	!	!
! PDS700	! DXBJ	! Extraction from DSMS journal	!
! PDSA10	! DPRT	! Sub-program for DPRT procedure	!
! PDSB	! -	! Monitor of DPRT procedure	!
! PDSBAS	! DSAV	! Checks data consistency	!
! PDSEX	! DEXT	! Monitor of DEXT procedure	!
! PDSINI	! DINI	! Initializes DSMS files	!
! PDSJMS	! DREN	! Updates codes on archived journal	!
! PDSLVB	! DLVB	! Replacement of low values with blanks	!
!	!	! in database backup	!
! PDSMS	! DREN	! Monitor of DREN procedure	!
! PDSR10	! DREO	! Reorganizes DSMS files	!
! PDSR20	! -	!	!
! PDSR30	! -	!	!
! PDSR40	! -	!	!
! PDSRCT	! DREN	! Checks user input validity	!
! PDSRFU	! -	! Merge	!
! PDSRMS	! -	! Updates code on database backup	!
! PDSTAS	! -	! Partial sort in ASCII sequence	!
! PDSTEB	! -	! Partial sort in EBCDIC sequence	!
! PDSUP0	! DUPT	! Monitor of DUPT procedure	!
! PDSV10	! DCDE	! Loads error message file	!
! PDSV25	! DUPT	! Formatting transactions for DUPT proc.	!
! PDSV80	! DEXP	! Formatting transactions in TSS format	!
!	! DEXT	!	!
!	! DXBJ	!	!
! PDSXCT	! DEXT	! Checks user input validity	!
! PDSXST	! -	! Sub-program for sort	!
! PDSXTH	! DEXH	! Extracts tables for external lists	!
! PDSXTR	! -	! Extracts tables	!
! PTU001	! All	! Recopy and format input on a disk file	!

Retrieval programs

! CODE	! PROC.	! COMMENTS	!
! PDSR8B	! DR80	! Rerieval 8.0 or 8.0.1	!
! PDSR8C	! -	! -	!
! PDSR8D	! -	! -	!
!	! DR8X	! Retrieval 8.0.2 compatible VA Pac 8.0.1!	!
! PDSR8Q	! DR8Q	! Retrieval 8.0.2 01 or 02	!
! PDSR8R	! -	! -	!
! PDSR8X	! DR8X	!	!
! PDSR15	! DR80	!	!
!	! DR8Q	!	!
!	! DR8X	!	!
!	! DR15	! Retrieval 1.2	!
! PDSR5J	! DR5J	! Journal 1.2 retrieval	!

2.5. SUB-PROGRAMS

SUB-PROGRAMS

! CODE	! COMMENTS	!
! DSCHOI	! Choice decoding sub-program	!
! DSCUAM	! Suppl. check sub-program for DS00B1	!
! DSCUEV	! Suppl. check sub-program for DS00E1	!
! DSCUMQ	! Suppl. check sub-program for DS00Q6	!
! DSCURQ	! Suppl. check sub-program for DS00Q1	!
! DSCUSI	! Suppl. check sub-program for DS00S1	!
! DSUAA	! Control position./ authorization	!
! PACABE	! Print error report	!
! PDCHOI	! Choice decoding for Batch update	!
! PDSCAM	! Suppl. check sub-program for DSUB1	!
! PDSCEV	! Suppl. check sub-program for DSUE1	!
! PDSCRQ	! Suppl. check sub-program for DSUQ6	!
! PDSCMQ	! Suppl. check sub-program for DSUQ1	!
! PDSCSI	! Suppl. check sub-program for DSUS1	!
! PDSERQ	! Description request/report	!
! SIABBA	! Batch access to DSMS database	!
! SIABLO	! Loading of DSMS database	!
! SIABTP	! On-line access to DSMS database	!
! ZAR300	! Spawn batch	!
! ZAR980	! Message formatting	!

2.6. OTHER CATALOGS

OTHER CATALOGS

SOURCE CATALOG: \$UMCS/\$SOURCE

Its size is roughly 200 llinks.

It contains the sources of: the SYSGEN, of WORKSTATIONS necessary for DSMS to run under TP8, of the DMCL, of the first and last DSMS consultation TPRs, and of the TPRs that open the IDSII AREAS for a TP8 environment.

SCHEMA AND SUB-SCHEMA CATALOG: \$UMCS/\$SCHEMA

Its size is roughly 350 llinks.

It contains the schema (1*) and sub-schemas (C*, 6*) for DSMS.

JCL CATALOG: \$UMCU/\$JCL

Its size is roughly 350 llinks.

It contains the JCL of all DSMS procedures, along with the JCL necessary for the installation and operation of DSMS.

1 - DSMS operation JCL

Procedure	Function
DARC	Journal archiving
DEXH	Extraction of tables for ext. lists
DEXP	Extraction from VA Pac journal
DEXT	Extraction from DSMS journal
DHIN	Physical intinializ. DH help file
DINI	Initialization of DSMS files
DLVB	Replacement of low values by blanks
DPRT	Execution of queries
DREN	Code and keyword updates
DREO	Reorganization
DRST	Restoration of DSMS files
DR8Q	Retrieval of DSMS 8.0.2 01 database
DR8X	Retrieval of DSMS 8.0.x database
DR15	Retrieval of DSMS 1.2 database
DR80	Retrieval of DSMS 8.0.0 database
DSAV	Sequential backup of files
DUPT	Batch update
DXBJ	Extraction from DSMS journal

2 - Installation JCLs

Procedure	Function
COBA	Installation of files and programs
COBAX	"
COTP	"
COTPX	"
CRCA	Creation of catalogs
DCDE	Loading of Error Messages
DMCL	Translation of DMCL DSMS
DRS1	Restoration of test database
FCDS	Creation of DSMS database files
FCRE	Creation of system files
LEXT	Link DEXT programs
LREN	Link DREN programs
LUPT	Link DUPT programs
PDSB	Link DPRT programs
RAND	Update sub-programs library
RCBA	Reinstallation of batch files & programs
RCBAX	"
RCTP	"
RCTPX	"

3 - TP8 management JCLs

```
+-----+
! Procedure      ! Contents                                     !
+-----+-----+
!   AWTQ         ! Workstation abort                             !
!   AWTQ         ! - - -                                         !
!   ILI8         ! Initialization of TPR libraries               !
!   CRDY         ! Compilation/link of READY TPRs PB-DSMS       !
!   DFTQ         ! Definition of TQ Workstation                  !
!   DFWD         ! Definition of WD Workstation                  !
!   ENWS         ! Workstation enable                            !
!   FIT8         ! Creation of TP8 system files                  !
!   INTQ         ! Initialization of the TQ Workstation          !
!   INWD         ! Initialization of the WD Workstation          !
!   MFT8         ! Modif. files IDSII DMIV-TP --> TP8           !
!   PROC         ! Process Spawn                                 !
!   SLUn         ! Link of TPRs                                  !
!   UPD3         ! Procedure called by SLUn in SR3000           !
!   UPD4         ! Procedure called by SLUn in SR4000 and >    !
+-----+-----+
```


4- DMIV-TP management JCLs

```
+-----+
! Procedure ! Contents !
!-----!
! FIT4      ! Creation of DMIV-TP files !
! ILI4      ! Initialization library TPR DMIV-TP !
! LNKn      ! Link of TPRs !
! LNP4      ! Link procedure called by LNKn !
! PTDS      ! TP start-up !
! SYSG      ! TP generation !
+-----+
```

2.7. 'SYSTEM' FILES

SYSTEM FILES

FILE ORGANIZATIONS

File organizations are coded as follows:

USEQ - Sequential UFAS file
UIND - Indexed UFAS file
UREL - Relative UFAS file
Indexed - Indexed UFAS file under schema control
Relative - Relative UFAS file under schema control

SYSTEM FILES

These files operate the system. They are not affected by daily transactions and must be reloaded when reinstalling DSMS.

The System Files are contained in the catalogs discussed in the previous subchapter:

- . the on-line program catalog,
- . the batch program catalog,
- . the source catalog,

along with the DSMS Error Message and Help Documentation file (DE).

The DE file has the following characteristics :

.External name : \$UMCB/\$BASE.DE, \$UMCB/\$BASE.ED
.Size : about 35,000 records
.Organization : indexed
.Reclength : 90
.Ci size : 6400
.Key length : 17 (starting position zero).

2.8. 'USER' FILES

USER FILES

They contain the user information managed by DSMS.

The first five make up the data managed directly by DSMS.

.DSMS Index file (DA) : DA file key

.External name : \$UMCB/\$BASE.DA
.Organization : Relative
.Recsize : 1015
.CIsize : 4096

.DSMS Data file (AD) : DA file data

.External name : \$UMCB/\$BASE.AD
.Organization : Relative
.Recsize : mini 59, maxi 299
.CIsize : 4096

.Cross-references file (DX)

.External name : \$UMCB/\$BASE.DX
.Organization : Relative
.Recsize : 1000
.CIsize : 4096

.The VA Pac elements file (DC)

.External name : \$UMCB/\$BASE.DC, \$UMCB/\$BASE.CD
.Organization : Indexed
.Recsize : mini 51, maxi 169
.CIsize : 4096
.Keylength : 31 (starting from position 3)

.The DSMS Journal file (DJ)

.External name : \$UMCB/\$BASE.DJ
.Organization : Relative
.Reclsize : 180
.CIsiz : 4096

A technical file contains information necessary to back up the DSMS screens when requiring a documentation process.

.The DSMS Help file (DH)

.External name : \$UMCB/\$BASE.DH
.Organization : Relative
.Reclsize : 1935
.CIsiz : 4096

Three other sequential files make up the backup function:

.The Backup file (BB)

.External name : \$UMCU/\$FILU.BB
.Organization : USEQ
.Reclsize : minimum 61, maximum 350
.CIsiz : 16128

.The Archived Journal file (BJ)

.External name : \$UMCU/\$FILU.BJ
.Organization : USEQ
.Reclsize : 180
.CIsiz : 10496

.The Deactivated Archive file (BQ)

.External name : \$UMCU/\$FILU.BQ
.Organization : USEQ
.Reclsize : 180
.CIsiz : 10496

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3. ENVIRONMENT

3.1. ON-LINE ENVIRONMENT

ON-LINE ENVIRONMENT

The monitor in use is DMIV-TP or TP8.

The DSMS TPRs have an average size of 50K; the largest one has a size of 64K.

After a system failure the TDS should be restarted with the RESTART option.

The JCL provided for DMIV-TP is designed for a cold start. In case of a RESTART, modify it by setting the switch 21 to OFF.

GENERAL INFORMATION ON DSMS OPERATION

The general characteristics are:

- . Two transaction codes are used (four characters). They refer to the first DSMS TPR (DS0AA0).

The choice of the transaction codes is up to the user. The codes are 3-character long. The 3rd character is used to set the language code:

'E' for English
'F' for French.

The fourth character determines the programming for the sending of DSMS messages.

'1' for VIP 7700 terminals,
'2' for IBM 3270 terminals,
'3' for VIP 7800 terminals,
any other value for QUESTAR terminals.

- . The TPR 'DS0AA0' is executed at the beginning and end of each conversation. The source of this TPR is given to the user, so that site-specific conversation processing can be used and so that the default DMIV-TP or TP8 environment transaction code can be modified.

DSF is the French transaction code, DSE for English.

- . In case of a system error, DSMS makes an '.ABORT' call and displays the 'ABEND' screen.
- . Exit DSMS by typing 'FT' in the OPTION field on the initial DSMS screen; the message 'END OF CONVERSATION' is then displayed.

DEVELOPMENT SITE CONFIGURATION

This version of DSMS has been developed and tested on a site with the following configuration:

Hardware : DPS9000/542
Operating System : GCOS-8 - SR4500
Database level : DB7.2
DMIV-TP level : 8TA4.1
TP8 level : 8IT4.2
Terminal types used : DKU7107, IBM3270, VIP7800
Communication mode : DAC

PRODUCTION SITE CONFIGURATION

DSMS must be operated on a site that has the following configuration:

Operating System : GCOS-8
DMIV-TP level : 8TA4 (at least)
TP8 level : 8IT1.1 (at least)
Communication mode : DAC
Synchronous terminals : VIP7700, QUESTAR
(128 fields accessible)
VIP7800, IBM3270

UPPER AND LOWER-CASE PROCESSING

DSMS has its own character processing: all lower-case characters are automatically transformed into upper-case.

To use this automatic processing, the terminal must be configured for lower-case and the printer must print in lower case too. Before beginning on-line activity, the command '\$*\$LC ON' must be entered to specify that lower-case characters are to be used.

NOTE: In batch processing, the translation of lower-case characters into upper-case is not possible. For example, an extraction request entered in lower-case is not recognized.

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DMIV-TP ENVIRONMENT

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3.2. DMIV-TP ENVIRONMENT

```
-----  
!           !  
!         DSMS SYSGEN         !  
!           !  
-----
```

TP SECTION.
CONFIGURED WITH GCOS VIII.
SUPPRESS MACRO-DETAIL OUTPUT LISTING.
DB-CONTROL-BLOCK MAXIMUM IS 1752.
NORMAL-LOAD IS 2 TRANSACTIONS
RESERVE 20 BUFFERS SIZE 4096 RESIDENT 3 BUFFERS.
PRIORITIES 1 TO 2.
SYSTEM-SIZE MAXIMUM IS 220 K.
TPR-SIZE 80 K.
MESSAGE-ID SIZE 3.
INPUT-MESSAGE 2000 MAXIMUM.
OUTPUT-MESSAGE 2150 MAXIMUM.
JOURNAL-FILE IS PRESENT
WITHOUT RETENTION.
TPR-TIME-LIMIT 12000.
TRACE SIZE IS 100.
ALLOW 1000 SYSOUT LINES.
TRANSACTION-TIME-LIMIT 20000.
PAGE RESERVATION 500.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT INDEXED SGSDC ASSIGN TO DC,CD.
SELECT INDEXED SGSDS ASSIGN TO DE,ED.
SELECT INTEGRATED SGSDA ASSIGN TO DA.
SELECT INTEGRATED SGDSAD ASSIGN TO AD.
SELECT INTEGRATED SGSDX ASSIGN TO DX.
SELECT INTEGRATED SGSDH ASSIGN TO DH.
SELECT INTEGRATED SGSDJ ASSIGN TO DJ.
DB SSSG WITHIN PACBASE.
TRANSACTION SECTION.
TRANSACTION STORAGE.
01 TSSG SIZE 11500.
01 TSPE SIZE 2200.
CONSTANT-STORAGE.
01 CTE SIZE IS 4.
TRANSACTION CONTROL.
MESSAGE ".MST" ASSIGN TP-OPT
WRAP-UP THROUGH TP-ABT
ALLOCATE 5 K-WORD-CORE
1 MSG-BUFFERS
PRIORITY IS 2
TRANSACTION-STORAGE IS TSPE
USE ASCBCD FOR RECEIVE-MSG
USE BCDASC FOR SEND-MSG
USER-GROUP LIST IS 63
AUTHORITY-CODE IS 63.
MESSAGE "DSF" ASSIGN DS0AA0
WRAP-UP THROUGH DS00AB
ALLOCATE 2 MSG-BUFFERS 8 DB-BUFFERS
80 PAGES
ACCESS SSSG WITHIN PACBASE
CONCURRENCY MODE-3 FOR DA,AD,DC,CD,DE,ED
CONCURRENCY MODE-3 FOR DX,DH,DJ
TRANSACTION-STORAGE IS TSSG
CONSTANT-STORAGE IS CTE
USE USEND FOR SEND-MSG
ALLOW SPAWNB
AUTHORITY-CODE IS 5.
MESSAGE "DSE" ASSIGN DS0AA0
WRAP-UP THROUGH DS00AB
ALLOCATE 2 MSG-BUFFERS 8 DB-BUFFERS
80 PAGES
ACCESS SSSG WITHIN PACBASE
CONCURRENCY MODE-3 FOR DA,AD,DC,CD,DE,ED
CONCURRENCY MODE-3 FOR DX,DH,DJ
TRANSACTION-STORAGE IS TSSG
CONSTANT-STORAGE IS CTE
USE USEND FOR SEND-MSG
ALLOW SPAWNB
AUTHORITY-CODE IS 5.
COMMUNICATION SECTION.
TERMINAL-CONTROL.
DATA-COMMUNICATION DAC

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DMIV-TP ENVIRONMENT

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BUFFER SIZE 2150
TOTAL NUMBER 5 OUTPUT 2.
OPERATOR-CONTROL.
ASSIGN MASTER TO ".MST".
ASSIGN SLAVE TO "SLAV".
ASSIGN 5 TO "D001" "D002" "D003".

3.3. TP8 ENVIRONMENT

DSMS SOURCES FOR TP8

Three sources are necessary for DSMS operation in a TP8 environment; they are in the \$UMCS/\$SOURCE catalog and have the following functions:

- . Initialization of the TP8 files
- . Management of the communications between any type of screen and DSMS/TP8
- . Definition of the DSMS environment in TP8.

A set of JCLs specific to the installation site is provided in the \$JCL catalog.

These JCLs allows to execute all the operations required to operate DSMS in a TP8 environment. Information on these JCLs is found in Chapter INSTALLATION, Subchapter 'TP8 Environment Generation'.

Two specific JCLs can be used to abort the communication WORKSTATION and the DSMS WORKSTATION.

They are found in \$UMCU/\$JCL.AWTQ and \$UMCU/\$JCL.AWTP.

This environment is parameterized with six variables which are detailed in Chapter THE DSMS COMPONENTS", Subchapter 'SYSTEM PARAMETERS'.

NOTE:

The supplied workstation sources are adapted to TP8 8IT4.2 version.

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NODE DEFINITION	1

3.3.1. NODE DEFINITION

```
REMOVE_NODE $NODE ;
CREATE_NODE $NODE &
  -LOCATION LOCAL &
  -MAX_WS_ACTIVE 5 ;
LIST_WORKSTATION_CONTROL ALL ;
```

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TP8 ENVIRONMENT

3

DEFINITION OF TQ WORKSTATION

2

3.3.2. DEFINITION OF TQ WORKSTATION

```

&
&*****
&*          DSMS TQ WORKSTATION          *
&*****
&
REMOVE_WORKSTATION          $TQN      ;
&
CREATE_WORKSTATION          $TQN      &
    -EXTENSION_TYPE        TQ        &
    -MAX_TENANTS            200       &
    -TENANT_RECOVERY_FILE_CODE TR     &
    -TENANT_UNMAPPING       YES       ;
&
CREATE_TX_QUEUEUR_EXTENSION $TQN      &
    -PERCENT_DAC_USERS      50        &
$VIPU -PERCENT_VIP_USERS    50        &
    -TTY_MBX                $TTYMB    &
    -VIP_MBX                $VIPMB    ;
&
CREATE_MAILBOX              $TTYMB    &
    -WS_NAME                $TQN      &
$MAXLC-MXLC                100       &
                                ;
&
CREATE_MAILBOX              $VIPMB    &
    -WS_NAME                $TQN      &
$MAXLC-MXLC                200       &
                                ;
&
CREATE_TX_QUEUEUR_PROGRAM_NAME $DSN    &
    -WS_NAME                $TQN      &
    -MBX_NAME               $DSMB     &
    -LID_SIZE               4         ;
&
CREATE_SESSION_TYPE_DESC    AA        &
    -WS_NAME                $TQN      &
    -INITIATOR_MBX_NAME     $TTYMB    &
    -MAX_IN_LETTER_SIZE     128       &
    -MAX_IN_QUARANTINE_SIZE 4096     &
    -MAX_OUT_LETTER_SIZE    128       &
    -MAX_OUT_QUARANTINE_SIZE 4096     &
    -MXOQS                 256       &
    -SENDER_ID             TTY        &
$SUBCH-SUBCHANNELS        255       &
    -RECOVERY              YES       ;
&
CREATE_SESSION_TYPE_DESC    AB        &
    -WS_NAME                $TQN      &
    -INITIATOR_MBX_NAME     $VIPMB    &
    -COMMITMENT            NONE      &
    -MULTI_RECORD_LETTER    YES      &
    -TWO_WAY_ALT_INIT_FIRST YES      &
    -MAX_IN_LETTER_SIZE     980      &
    -MAX_IN_QUARANTINE_SIZE 4096     &
    -MAX_OUT_LETTER_SIZE    980      &
    -MAX_OUT_QUARANTINE_SIZE 4096     &
    -SENDER_ID             VIP7700   &
$SUBCH-SUBCHANNELS        64        &
    -RECOVERY              YES       ;
&
CREATE_SESSION_TYPE_DESC    AE        &
    -WS_NAME                $TQN      &
    -INITIATOR_MBX_NAME     $VIPMB    &
    -COMMITMENT            NONE      &
    -MULTI_RECORD_LETTER    YES      &
    -TWO_WAY_ALT_INIT_FIRST YES      &
    -MAX_IN_LETTER_SIZE     980      &

```

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TP8 ENVIRONMENT

3

DEFINITION OF TQ WORKSTATION

2

```

-MAX_IN_QUARANTINE_SIZE      4096  &
-MAX_OUT_LETTER_SIZE         980    &
-MAX_OUT_QUARANTINE_SIZE     4096  &
-SENDER_ID                   VIP7801 &
$SUBCH-SUBCHANNELS          64     &
-RECOVERY                     YES   ;
&
CREATE_SESSION_TYPE_DESC     AG    &
-WS_NAME                      $TQN &
-INITIATOR_MBX_NAME          $VIPMB &
-COMMITMENT                   NONE  &
-MULTI_RECORD_LETTER         YES   &
-TWO_WAY_ALT_INIT_FIRST      YES   &
-MAX_IN_LETTER_SIZE          980    &
-MAX_IN_QUARANTINE_SIZE      4096  &
-MAX_OUT_LETTER_SIZE         980    &
-MAX_OUT_QUARANTINE_SIZE     4096  &
-SENDER_ID                   IBM3270 &
$SUBCH-SUBCHANNELS          64     &
-RECOVERY                     YES   ;
&
CREATE_SESSION_TYPE_DESC     Q1    &
-WS_NAME                      $TQN &
-INITIATOR_MBX_NAME          $VIPMB &
-COMMITMENT                   NONE  &
-MULTI_RECORD_LETTER         YES   &
-TWO_WAY_ALT_INIT_FIRST      YES   &
-MAX_IN_LETTER_SIZE          2148  &
-MAX_IN_QUARANTINE_SIZE      4096  &
-MAX_OUT_LETTER_SIZE         2148  &
-MAX_OUT_QUARANTINE_SIZE     4096  &
-SENDER_ID                   DKU7007 &
$SUBCH-SUBCHANNELS          64     &
-RECOVERY                     YES   ;
&
CREATE_SESSION_TYPE_DESC     Q3    &
-WS_NAME                      $TQN &
-INITIATOR_MBX_NAME          $VIPMB &
-COMMITMENT                   NONE  &
-MULTI_RECORD_LETTER         YES   &
-TWO_WAY_ALT_INIT_FIRST      YES   &
-MAX_IN_LETTER_SIZE          2148  &
-MAX_IN_QUARANTINE_SIZE      4096  &
-MAX_OUT_LETTER_SIZE         2148  &
-MAX_OUT_QUARANTINE_SIZE     4096  &
-SENDER_ID                   $TERMI &
$SUBCH-SUBCHANNELS          64     &
-RECOVERY                     YES   ;
&
CREATE_SESSION_TYPE_DESC     Q5    &
-WS_NAME                      $TQN &
-INITIATOR_MBX_NAME          $VIPMB &
-COMMITMENT                   NONE  &
-MULTI_RECORD_LETTER         YES   &
-TWO_WAY_ALT_INIT_FIRST      YES   &
-MAX_IN_LETTER_SIZE          2148  &
-MAX_IN_QUARANTINE_SIZE      4096  &
-MAX_OUT_LETTER_SIZE         2148  &
-MAX_OUT_QUARANTINE_SIZE     4096  &
-SENDER_ID                   DKU7211 &
$SUBCH-SUBCHANNELS          64     &
-RECOVERY                     YES   ;
&
DEFINE_WORKSTATION           $TQN  ;
DEFINE_TQ_EXTENSION          $TQN  ;
&
LIST_WORKSTATION_CONTROL     ALL    ;

```


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DEFINITION OF DSMS WORKSTATION	3

3.3.3. DEFINITION OF DSMS WORKSTATION

```

&
&*****
&*
&*      DSMS WORKSTATION DESCRIPTION
&*
&*****
&
REMOVE_WORKSTATION $DSN
;
CREATE_WORKSTATION $DSN
-EXTENSION_TYPE TP8
-SPAWN_IDENT $IDENT,$DEST.
-SPAWN_SELECT_PATH_NAME $UMCU/$JCL.PROC
-SPAWN_USERID_PASSWORD $UMCT$PWT
-SPAWN_SNUMB_SUFFIX G
-MAX_PROCESSES 4
-MIN_PROCESSES 1
-NORMAL_PROCESSES 4
-TENANT_UNMAPPING YES
-MAX_SSN_PER_TENANT 3
-MAX_TENANTS 10
-TENANT_RECOVERY_FILE_CODE TR
-VIRTUAL_MEMORY_PAGES 2560
-HOUSE_KEEPING_PAGES 32
-URGENCY 63
-PIR_THRESHOLD 10
-PROCESS_WAIT_TIME 240
-WORKSTATION_RESTART NO
-ALLOCATE_BACKINGSTORE YES
-ALLOCATE_PAT YES
-PAT_SIZE 1024
;
&
&*****
&*
&*      DSMS MAILBOX DESCRIPTION
&*
&*****
&
CREATE_MAILBOX $DSMB
-WS_NAME $DSN
$MAXLC -MAX_LOGICAL_CONNECTIONS 100
-ACTIVATE_TENANT YES
;
&
&*****
&*
&*      SESSION TYPE DESCRIPTORS DEFINITION
&*
&*****
&
CREATE_SESSION_TYPE_DESC AC
-WS_NAME $DSN
-SENDER_ID G8TP
-ACCEPTOR_MBX_NAME $DSMB
$SUBCH -SUBCHANNELS 7
-MAX_IN_LETTER_SIZE 128
-MAX_OUT_LETTER_SIZE 128
-MAX_IN_QUARANTINE_SIZE 4096
-MAX_OUT_QUARANTINE_SIZE 4096
-JOURNALIZE_INPUT YES
-RECOVERY YES
;
CREATE_SESSION_TYPE_DESC AD
-WS_NAME $DSN
-SENDER_ID G8TP
-ACCEPTOR_MBX_NAME $DSMB

```

ENVIRONMENT

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TP8 ENVIRONMENT

3

DEFINITION OF DSMS WORKSTATION

3

```

$SUBCH -SUBCHANNELS          7          &
-MAX_IN_LETTER_SIZE         980        &
-MAX_OUT_LETTER_SIZE        980        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
CREATE_SESSION_TYPE_DESC     AF         &
-WS_NAME                     $DSN      &
-SENDER_ID                   G8TP      &
-ACCEPTOR_MBX_NAME           $DSMB     &
$SUBCH -SUBCHANNELS          7          &
-MAX_IN_LETTER_SIZE         980        &
-MAX_OUT_LETTER_SIZE        980        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
CREATE_SESSION_TYPE_DESC     AH         &
-WS_NAME                     $DSN      &
-SENDER_ID                   G8TP      &
-ACCEPTOR_MBX_NAME           $DSMB     &
$SUBCH -SUBCHANNELS          7          &
-MAX_IN_LETTER_SIZE         980        &
-MAX_OUT_LETTER_SIZE        980        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
CREATE_SESSION_TYPE_DESC     Q2        &
-WS_NAME                     $DSN      &
-SENDER_ID                   G8TP      &
-ACCEPTOR_MBX_NAME           $DSMB     &
$SUBCH -SUBCHANNELS          7          &
-MAX_IN_LETTER_SIZE         128        &
-MAX_OUT_LETTER_SIZE        128        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
CREATE_SESSION_TYPE_DESC     Q4        &
-WS_NAME                     $DSN      &
-SENDER_ID                   G8TP      &
-ACCEPTOR_MBX_NAME           $DSMB     &
$SUBCH -SUBCHANNELS          7          &
-MAX_IN_LETTER_SIZE         128        &
-MAX_OUT_LETTER_SIZE        128        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
CREATE_SESSION_TYPE_DESC     Q6        &
-WS_NAME                     $DSN      &
-SENDER_ID                   G8TP      &
-ACCEPTOR_MBX_NAME           $DSMB     &
-MAX_IN_LETTER_SIZE         128        &
$SUBCH -SUBCHANNELS          7          &
-MAX_OUT_LETTER_SIZE        128        &
-MAX_IN_QUARANTINE_SIZE     4096       &
-MAX_OUT_QUARANTINE_SIZE    4096       &
-JOURNALIZE_INPUT           YES        &
-RECOVERY                    YES        &
;
&
&*****
&*
&*      DSMS WORKSTATION EXTENSION
&*
&*

```

ENVIRONMENT

3

TP8 ENVIRONMENT

3

DEFINITION OF DSMS WORKSTATION

3

```

&*****
&
CREATE_TP8_EXTENSION          $DSN          &
  -DEFAULT_BEFORE_JOURNAL    PCBJ          &
  -DEFAULT_USER_GROUP        00            &
  -DEFAULT_AUTHORITY_CODE    00            &
  -MAX_COMMAND_NAME_SIZE     3             &
  -MAX_TPR_TIME               60000        &
  -MAX_TPRS                   220          &
$MAXTM -MAX_TPRS_IN_MEMORY    32           &
  -DEFAULT_TX_TL              32400000     &
;

&
&*****
&*
&*   BEFORE JOURNAL FILE SIZE IS 7200 LLINKS.  *
&*
&*****
&
CREATE_BEFORE_JOURNAL         PCBJ          &
  -WS_NAME                    $DSN          &
  -NUMBER_CONTROL_INTERVALS   1000         &
  -CONTROL_INTERVAL_SIZE     2304          &
  -HEADER_WRITE_PERIOD       200           &
;

&
&*****
&*
&*   TPR LIBRARY DEFINITION                      *
&*
&*****
&
CREATE_GLOBAL_FILE            10            &
  -WS_NAME                    $DSN          &
  -PATH_NAME                   $UMCT/$FIL8.TPRLIB &
  -VERSION                     0000         &
  -PERMISSION                  R/C          &
  -ALLOCATION                   REQUIRED      &
  -MODE                        RANDOM       &
  -TYPE                         $TYP        &
$LIBT -LIBRARY_TYPE          PUBLIC        &
;

&
&*****
&*
&*   DSMS AREAS DESCRIPTION                      *
&*
&*****
&
CREATE_GLOBAL_FILE            DE            &
  -WS_NAME                    $DSN          &
  -PATH_NAME                   $UMCB/$BASE.DE &
  -VERSION                     0000         &
  -PERMISSION                  W/C          &
;
CREATE_GLOBAL_FILE            ED            &
  -WS_NAME                    $DSN          &
  -PATH_NAME                   $UMCB/$BASE.ED &
  -VERSION                     0000         &
  -PERMISSION                  W/C          &
;
CREATE_GLOBAL_FILE            DH            &
  -WS_NAME                    $DSN          &
  -PATH_NAME                   $UMCB/$BASE.DH &
  -VERSION                     0000         &
  -PERMISSION                  W/C          &
;
CREATE_GLOBAL_FILE            DA            &
  -WS_NAME                    $DSN          &
  -PATH_NAME                   $UMCB/$BASE.DA &
  -VERSION                     0000         &
  -PERMISSION                  W/C          &
;

```

ENVIRONMENT

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TP8 ENVIRONMENT

3

DEFINITION OF DSMS WORKSTATION

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```

CREATE_GLOBAL_FILE          AD          &
  -WS_NAME                  $DSN       &
  -PATH_NAME                $UMCB/$BASE.AD &
  -VERSION                  0000      &
  -PERMISSION               W/C       &
;
CREATE_GLOBAL_FILE          DC          &
  -WS_NAME                  $DSN       &
  -PATH_NAME                $UMCB/$BASE.DC &
  -VERSION                  0000      &
  -PERMISSION               W/C       &
;
CREATE_GLOBAL_FILE          CD          &
  -WS_NAME                  $DSN       &
  -PATH_NAME                $UMCB/$BASE.CD &
  -VERSION                  0000      &
  -PERMISSION               W/C       &
;
CREATE_GLOBAL_FILE          DX          &
  -WS_NAME                  $DSN       &
  -PATH_NAME                $UMCB/$BASE.DX &
  -VERSION                  0000      &
  -PERMISSION               W/C       &
;
CREATE_GLOBAL_FILE          DJ          &
  -WS_NAME                  $DSN       &
  -PATH_NAME                $UMCB/$BASE.DJ &
  -VERSION                  0000      &
  -PERMISSION               W/C       &
;
&
&*****
&*
&*      FIRST READY TPR DESCRIPTION
&*
&*****
&
MODIFY_COMMAND             $RDY       &
  -WS_NAME                  $DSN       &
  -FIRST_TPR_NAME          DSRYSG     &
;
&
&*****
&*
&*      COMMANDS DESCRIPTION
&*
&*****
&
CREATE_COMMAND DSF
  -WS_NAME                  $DSN       &
  -FIRST_TPR_NAME          DS0AA0     &
  -WRAPUP_TPR_NAME        DS00AB     &
  -AUTHORITY_CODES        5-63       &
  -TX_STORAGE_SIZE        11900      &
  -GLOBAL_STORAGE_NAME    GSDUMMY     &
  -GLOBAL_STORAGE_SIZE    4          &
  -CONCURRENCY_MODE       1          &
  -COBOL_SEND_EDIT_MODE   1          &
  -TX_RESTART             NO         &
;
CREATE_COMMAND DSE
  -WS_NAME                  $DSN       &
  -FIRST_TPR_NAME          DS0AA0     &
  -WRAPUP_TPR_NAME        DS00AB     &
  -AUTHORITY_CODES        5-63       &
  -TX_STORAGE_SIZE        11900      &
  -GLOBAL_STORAGE_NAME    GSDUMMY     &
  -GLOBAL_STORAGE_SIZE    4          &
  -CONCURRENCY_MODE       1          &
  -COBOL_SEND_EDIT_MODE   1          &
  -TX_RESTART             NO         &
;
&

```

ENVIRONMENT

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TP8 ENVIRONMENT

3

DEFINITION OF DSMS WORKSTATION

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```

&*****
&*
&*      SCHEMA VA Pac
&*
&*****
&
CREATE_SCHEMA_REFERENCE      PACBASE      &
-WS_NAME                     $DSN        &
-PATH_NAME                   $UMCS/$SCHEMA.1STAR &
;

&
&*****
&*
&*      DSMS      SUBSCHEMA  SSSG
&*
&*****
&
CREATE_SUB_SCHEMA_REFERENCE  SSSG          &
-SCHEMA_NAME                PACBASE      &
-WS_NAME                    $DSN        &
-PATH_NAME                  $UMCS/$SCHEMA.SSSG &
;

&
&*****
&*
&*      MASTER LID CREATION  AUTHORITY 63
&*
&*****
&
CREATE_SOURCE_LID           ZEUS          &
-WS_NAME                   $DSN        &
-MAILBOX                   $VIPMB      &
-NODE                      LOCL        &
-AUTHORITY_CODE           63          &
-USER_GROUP                63          &
;

&
&*****
&
&      OTHER LIDS DESCRIPTION
&
&*****
&
CREATE_SOURCE_LID           D001          &
-WS_NAME                   $DSN        &
-MAILBOX                   $VIPMB      &
-NODE                      LOCL        &
-AUTHORITY_CODE           5           &
;

CREATE_SOURCE_LID           D002          &
-WS_NAME                   $DSN        &
-MAILBOX                   $VIPMB      &
-NODE                      LOCL        &
-AUTHORITY_CODE           5           &
;

CREATE_SOURCE_LID           D003          &
-WS_NAME                   $DSN        &
-MAILBOX                   $VIPMB      &
-NODE                      LOCL        &
-AUTHORITY_CODE           5           &
;

&
&*****
&*
&*      CREATE READY-TPR FOR SYSOUT-DISPOSITION
&*
&*****
&
CREATE_TPR                  DSRYSG      &
-WS_NAME                   $DSN        &
-SYSOUT_DISPOSITION        DIRECT     ;

&
DEFINE_WORKSTATION $DSN ;

```

ENVIRONMENT
TP8 ENVIRONMENT
DEFINITION OF DSMS WORKSTATION

3
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```
DEFINE_TP8_EXTENSION $DSN ;  
&  
&*****  
&*                                     *  
&*      LIST ALL DETAIL RECORDS FROM WORKSTATION      *  
&*                                     *  
&*****  
&  
LIST_WORKSTATION_CONTROL RECORDS ;  
LIST_WORKSTATION_CONTROL ALL      ;
```

3.4. MIGRATION FROM DMIV-TP TO TP8

MIGRATION FROM DMIV-TP TO TP8

If the parameters for installing TP8 are not updated in the PARM file:

- . Set them to the values appropriate to the environment
- . Concatenate the PARM file with the PRMIGR file which contains the list of TP8 procedures.
- . Re-run the UTI110 procedure
- . Run the the JCL procedure.

Following these two procedures, refer to Chapter INSTALLATION, Subchapter 'TP8 Environment Generation'. Execute all the steps to complete the migration.

3.5. INFLUENCE OF GCOS8 MIGRATIONS

INFLUENCE OF GCOS8 MIGRATIONS GCOS8 ON DSMS

If DSMS operates in a DMIV-TP environment, it is important to allow for JCLs modifications, some corrections having been made on the GCOS8 release.

If DSMS operates in a TP8 environment, the procedures which manage this environment as well as the sources allowing to describe them must be modified in order to be operational on a number of GCOS8 releases.

The GCOS8 releases which require to be modified are the following :

- SR4000
- SR4000.4
- SR4020
- SR4500

The DSMS proedures affected by the GCOS8 migrations are the following :

- INWD : Initialization of WORKSTATIONS' files
- DFWD : Definition of the DSMS WORKSTATION
- DFTQ : Definition of the TQ WORKSTATION
- INTQ : Initialization of the TQ WORKSTATION
- AWTP : Abort of the DSMS WORKSTATION
- AWTQ : Abort of the TQ WORKSTATION
- ENWS : start-up of the DSMS WORKSTATION
- PROC : DSMS Process
- ILI8 : Initialization of the TPRs Library
- CRDY : Compilation of DSMS READY-TPR
- UPD3 : Setting of DSMS TPRs (SR3000) in Library
- UPD4 : Setting of DSMS TPRs (SR4000 and >) in Libr.
- SLUn : Link of DSMS TPRs

The DSMS sources affected by the GCOS8 migrations are the following :

- DFWCL : Definition of the DSMS WORKSTATION
- DWTQS : Definition of the TQ WORKSTATION
- DNODE : Definition of the NODE

3.6. ADAPTATION TO GCOS8 MIGRATIONS

ADAPTATION TO GCOS8 MIGRATIONS

Following a migration to SR4000, SR4000.4, SR4020, SR4500 GCOS8 releases, it is required to adapt the various DSMS elements impacted by executing the UMCI/DSMD/D250/INST/UTI110 (CRUN) procedure.

The \$UMCI/DSMD/D250/INST/PRMIGR file (which contains the list of the procedures concerned by the migration) must be incorporated to the PARM file which contains the installation parameters.

The UTI110 procedure sets new parameters to all the elements defined in the preceding subchapter from the product installation parameters and the parameters used for the adaptation to the various GCOS8 releases.

It creates a command file \$UMCI/DSMD/D250/INST/JCL which redistributes all the corrected elements in their operation catalog by submitting it, using the 'CRUN' command.

Following this distribution, the following procedures must be executed :

- 1) \$UMCU/\$JCL.INWD
- 2) \$UMCU/\$JCL.DFTQ
- 3) \$UMCU/\$JCL.DFWD
- 4) \$UMCU/\$JCL.ILI8
- 5) \$UMCU/\$JCL.CRDY
- 6) \$UMCU/\$JCL.SLU1-4

3.7. FILE ACCESS METHODS

FILE ACCESS METHODS

DSMS files are accessed by indexed access (without secondary indexes) and relative access methods.

The FMS options and the authorization to access control cards for DSMS database files prevent simultaneous batch and on-line updates.

NOTE: The use of FMS options specific to TP8 is strongly discouraged for database files in a DMIV-TP environment. In this case, some buffers updated by DMIV-TP may not be refreshed in batch mode.

3.8. BATCH ENVIRONMENT

THE BATCH ENVIRONMENT

In batch mode, the system runs using both the standard functions of the operating system and the UFAS and IDSII access methods.

The amount of memory needed for the execution of batch procedures varies according to the size of the buffers allocated to the files they use.

3.9. SPACE REQUIREMENTS

SPACE REQUIREMENTS

Although the total file size depends on the size of the applications managed by the system, it is possible to assess the total space required by the files with the following information:

(DX) Cross-reference file:

Let NBDX be the number of cross-references. There are 15 DX records per physical record (1000 characters) and four physical records per page. The pages are filled up to 80%. The number of page necessary is then:

$$\text{NPG} = (\text{NBDX} / (15 * 80\%)) / 4$$

To this number of pages add 10% for the management of technical records managed by the sequential index.

The DMCL allocates 4 DB-KEYs per page,
allocate = 4 * NPG

(DA) DSMS index file (first part):

This file contains only the data file key.

Let NBDA be the number of data items. There are 16 DA records per physical record (1000 characters) and a maximum of four physical records per page. The pages are filled up to 80%. The number of pages necessary is then:

$$\text{NPG} = (\text{NBDA} / (16 * 80\%)) / 4$$

To this number of pages add 10% for the management of technical records managed by the sequential index.

The DMCL allocates 4 DB-KEYs per page,
allocate = 4 * NPG.

(AD) DSMS Data file (second part):

This file contains only the data of the DA file.

Let NBDA be the number of data items. 41 DA records can be put on one page filled up to 80%. The number of pages necessary is then:

$$\text{NPG} = (\text{NBDA} / (41 * 80\%))$$

The DMCL allocates 128 DB-KEYs per page,
allocate = 128 * NPG

(DC,CD) VA Pac element file:

Let NBDC be the number of VA Pac elements.

A maximum of 29 records can be entered on a 4K page. The pages are filled up to 25% (provided for as a DMCL option), so the required number of pages is:

$$PG = NBDC / (29 * 25\%).$$

In addition, 2 LOVI and 500 GOVI are provided for, in order to account for the test deck restoration, which adds an extra page for every two pages. The number of pages actually necessary is then:

$NPG = PG + (PG / 2)$. Since this file is indexed, it is necessary to provide for 512 DB-KEYs per page. The SGSDC area must therefore be allocated $512 * NPG$ DB-KEY.

(DJ) Journal file:

It must be able to include all the update transactions, whether Batch or On-Line, that have been performed between two of its re-initializations. A DSMS transaction corresponds to 4 records in the journal file. (the length of each record is 180 bytes).

Let NBDJ be the number of journalized transactions.

A maximum of 21 records can be entered on a 4K page. The number of pages actually necessary is:

$$NPG = NBDJ / 21.$$

The DMCL provides for an allocation of 32 DB-KEYS per page. The SGSDJ area must therefore be allocated $32 * NPG$ DB-KEY.

(DH) Help file:

Let NBDH be the number of records. A maximum of 2 records can be entered on a 4K page. The required number of pages is

$$NPG = NBDH / 2.$$

The DMCL provides for an allocation of 4 DB-KEYS per page. The SGSDH area must therefore be allocated $4 * NPG$ DB-KEY.

(DE,ED) Error message file:

Let NBDE be the number of error messages.

A maximum of 40 records can be entered on a 4K page. The pages being filled up to the maximum during loading (see installation DMCL), the required number of pages is:

$$NPG = NBDE / (40 * 99\%).$$

Since this file is indexed, it is necessary to provide for 512 DB-KEYs per page. The SGDSDE area must therefore be allocated $512 * NPG$ DB-KEY.

SYSTEM SIZE REQUIREMENTS

The following charts show the sizes of all the catalogs and files needed to install DSMS (default values taken at installation).

The total volume of the environment amounts to about 90,000 links, of which 15,000 are reserved for the tape unloading (\$UMCI).

SYSTEM FILES

! Parameterized ! Names	! Contents !	!Size !(link)!
! \$UMCS/\$OBJBT.	! Batch programs	! 3500 !
! \$UMCS/\$OBJTP.	! On-line programs	! 4800 !
! \$UMCS/\$SOURCE.	! Source catalog	! 200 !
! \$UMCS/\$SCHEMA.	! Schema, sub-schemas(1*,C*,6*)	! 350 !
! \$UMCS/\$FILS.AE0	! DSMS error messages	! 2700 !
! \$UMCS/\$FILS.TEST	! Database backup for tests	! 250 !
! \$UMCS/\$FILS.OBJLIB	! Library of sub-programs	! 500 !
! \$UMCU/\$JCL.	! JCL catalog	! 350 !
! \$UMCU/\$HSTAR.PDSB	! DPRT procedure monitor	! 1700 !
! \$UMCU/\$HSTAR.PDSEX	! DEXT procedure monitor	! 1200 !
! \$UMCU/\$HSTAR.PDSMS	! DREN procedure monitor	! 1800 !
! \$UMCU/\$HSTAR.PDSUP	! DUPT procedure monitor	! 1800 !
!	!	!-----!
!	!	! TOTAL ! 19150 !

EVOLVING FILES

! Parameterized ! Names	! Contents !	! Size !(link)!
+-----+-----+-----+		
! The databases :	!	! !
! \$UMCB/\$BASE.DA	! Data	! 567 !
! \$UMCB/\$BASE.AD	!	! 781 !
! \$UMCB/\$BASE.DC	! VA Pac elements	! 868 !
! \$UMCB/\$BASE.CD	!	! 90 !
! \$UMCB/\$BASE.DX	! Cross-references	! 180 !
! \$UMCB/\$BASE.DE	! DSMS error messages	! 3204 !
! \$UMCB/\$BASE.ED	!	! 300 !
! \$UMCB/\$BASE.DJ	! DSMS journal	! 292 !
! \$UMCB/\$BASE.DH	! Help	! 100 !
!	!	=====
!	! TOTAL	! 6382 !
!	!	=====
! Backups :	!	! !
! \$UMCU/\$FILU.DARC0	! Archived journal transac-	! 2000 !
! .DARC1	! tions	! 2000 !
! .DARC-1	!	! 2000 !
! \$UMCU/\$FILU.DSAV0	! Sequential image of the	! 2000 !
! DSAV1	! DSMS database	! 2000 !
! DSAV-1	!	! 2000 !
! \$UMCU/\$FILU.DARCBQ	! Sequential image of	! 2000 !
!	! deactivated transactions	! !
!	!	!-----!
!	! TOTAL	! 14000 !
+-----+-----+-----+		

ENVIRONMENT
SPACE REQUIREMENTS

Parameterized name	Contents	Size
		!(link)!
! Procedure input files :		
\$UMCU/\$MB.DARC	! Archive	! 1 !
\$UMCU/\$MB.DEXH	! Restore	! 1 !
\$UMCU/\$MB.DEXP	! VA Pac journal extraction	! 1 !
\$UMCU/\$MB.DEXT	! DSMS database extraction	! 1 !
\$UMCU/\$MB.DINI	! Initialization	! 1 !
\$UMCU/\$MB.DPRT	! Requests	! 1 !
\$UMCU/\$MB.DREN	! Code updates	! 1 !
\$UMCU/\$MB.DREO	! Reorganization	! 1 !
\$UMCU/\$MB.DRST	! Restoration	! 1 !
\$UMCU/\$MB.DR80	! Retrieval	! 1 !
\$UMCU/\$MB.DR8X	! Retrieval	! 1 !
\$UMCU/\$MB.DSAV	! Backup	! 1 !
\$UMCU/\$MB.DUPT	! Batch update	! 1 !
\$UMCU/\$MB.DXBJ	! DSMS journal extraction	! 1 !
		!-----!
		TOTAL : 14 !
		!-----!
! Extractor outputs :		
\$UMCU/\$MV.DEXH	! Table extraction	! 100 !
\$UMCU/\$MV.DEXP	! VA Pac journal extraction	! 100 !
\$UMCU/\$MV.DEXT	! Database extraction	! 100 !
\$UMCU/\$MV.DXBJ	! DSMS journal extraction	! 100 !
		!-----!
		TOTAL : 400 !

ON-LINE MONITOR FILES

If TP8 :

! Parameterized names !	! Contents !	! Size !
! !	! !	!(link)!
! \$UMCT/\$FIL8.RC !	! Restart control !	! 999 !
! !	! !	! !
! \$UMCT/\$FIL8.SW !	! Swap !	! 5000 !
! !	! !	! !
! \$UMCT/\$FIL8.WD-FILE !	! Workstation executable !	! 840 !
! !	! !	! !
! \$UMCT/\$FIL8.WE-FILE !	! Workstation executable !	! 420 !
! !	! !	! !
! \$UMCT/\$FIL8.TPRLIB !	! Library of TPRs !	! 9864 !
! !	! !	! !
! !	! !	!-----!
! !	! TOTAL !	! 17123 !

If DMIV-TP :

! Parameterized names !	! Contents !	! Size e !
! !	! !	!(link)!
! \$UMCT/\$FILT.RC !	! Restart control !	! 60 !
! !	! !	! !
! \$UMCT/\$FILT.SW !	! Swap !	! 1500 !
! !	! !	! !
! \$UMCT/\$FILT.DF !	! Dump file !	! 616 !
! !	! !	! !
! \$UMCT/\$FILT.TP-SYS !	! Executable !	! 600 !
! !	! !	! !
! \$UMCT/\$FILT.TPR-OBJ !	! Library of TPRs !	! 9000 !
! !	! !	! !
! \$UMCT/\$FILT.LOADMAP !	! Map !	! 122 !
! !	! !	! !
! \$UMCT/\$FILT.J1 !	! Journals !	! 500 !
! !	! !	! !
! \$UMCT/\$FILT.J2 !	! Journals !	! 500 !
! !	! !	! !
! !	! !	!-----!
! !	! TOTAL !	! 12900 !

3.10. DMCL ADAPTATION

ADAPTATION OF THE DMCL SOURCE

The DMCL source provided by IBM has been validated. Only the parameters ALLOCATE, RESERVE and LOAD_LIMIT can be altered to increase the size of a DSMS file or modulate the load ratio of an indexed file.

The RESERVE parameter which is defined for each AREA allows the size of the ALLOCATE parameter to be increased without changing the physical addresses (DBK) of AREAs which follow the AREA that has been modified. The length of the increase in the ALLOCATE parameter must be subtracted from the RESERVE parameter so that the overall length remains the same. It is not necessary to back up AREAs which follow the AREA being modified, before running the DMCL procedure.

For each modification, a back up of all files involved in the change must be done before translating the new DMCL.

The DMCL procedure report (activity 1, report code 02) gives the new sizes of the modified files. The user must check that the addresses of non-modified AREAs have not been altered by comparing the DMCL procedure report with the preceding report.

The next step consists of adapting the size of the modified areas by purging the files involved and recreating them with the same parameters as those defined in the FCDS procedure (ACCESS, MODE, and PAGESIZE for TP8) followed by the MFT8 procedure if in TP8. The restoration procedures to be executed after an AREA modification are the following:

```
Modification of SGDSDE      ----> DCDE
"      " SGSDSH             ----> INDH
"      " SGSDSJ             ----> INDJ + DRST
"      " SGSDA, SGSDSX      ----> DRST
and SGSDC
```

After execution of the DMCL procedure, it is imperative that the procedures LUPT, LEXT, LREN and PDSB be executed. For integration of DSMS in VA Pac, execute the procedures PACA, PACB, PACC and PACD of GPRT, and PACQ for the PQC module. In DMIV-TP, execute the SYSG procedure.

NOTE: When the RESERVE parameter becomes negative for an AREA, due to the increase of the number of DBKs, all the AREAs defined after the modified one must be backed up, then restored with a sufficient number of DBKs after the DMCL procedure has been executed.

```
SCHEMA NAME IS PACBASE.  
AREA NAME IS PAC7AE  
  FILE_CODE IS "AE"  
  KEY FILE_CODE IS "XE"  
    ALLOCATE 460800  
    PAGE_SIZE 4096  
  LOAD_LIMIT IS 99  
  ORGANIZATION IS INDEXED  
    RESERVE 102912.  
AREA NAME IS PAC7AG  
  FILE_CODE IS "AG"  
  KEY FILE_CODE IS "XG"  
    ALLOCATE 14336  
    PAGE_SIZE 4096  
  LOAD_LIMIT IS 75  
  ORGANIZATION IS INDEXED  
    RESERVE 497664.  
AREA NAME IS PAC7AP  
  FILE_CODE IS "AP"  
  KEY FILE_CODE IS "XP"  
    ALLOCATE 7680  
    PAGE_SIZE 4096  
  LOAD_LIMIT IS 75  
  ORGANIZATION IS INDEXED  
    RESERVE 504320.  
AREA NAME IS PAC7AT  
  FILE_CODE IS "AT"  
    ALLOCATE 320  
  PAGE_INTERVAL 16  
  CALC_INTERVAL 16  
  PAGE_SIZE 4096  
  ORGANIZATION IS INTEGRATED  
    RESERVE 1920.  
AREA NAME IS PAC7AB  
  FILE_CODE IS "AB"  
  KEY FILE_CODE IS "XB"  
    ALLOCATE 10240  
    PAGE_SIZE 4096  
  LOAD_LIMIT IS 75  
  ORGANIZATION IS INDEXED  
    RESERVE 501760.  
AREA NAME IS PAC7AC  
  FILE_CODE IS "AC"  
  KEY FILE_CODE IS "XC"  
    ALLOCATE 10240  
    PAGE_SIZE 4096  
  LOAD_LIMIT IS 75  
  ORGANIZATION IS INDEXED  
    RESERVE 501760.  
AREA NAME IS PAC7AJ  
  FILE_CODE IS "AJ"  
    ALLOCATE 5120  
  PAGE_INTERVAL 32  
  CALC_INTERVAL NULL  
  PAGE_SIZE 4096  
  ORGANIZATION IS INTEGRATED  
    RESERVE 26880.  
AREA NAME IS PAC7AR  
  FILE_CODE IS "AR"  
    ALLOCATE 19200  
  PAGE_INTERVAL 64  
  CALC_INTERVAL NULL  
  PAGE_SIZE 4096  
  ORGANIZATION IS INTEGRATED  
    RESERVE 308160.  
AREA NAME IS PAC7AS  
  FILE_CODE IS "BR"  
    ALLOCATE 19200  
  PAGE_INTERVAL 64  
  CALC_INTERVAL NULL  
  PAGE_SIZE 4096  
  ORGANIZATION IS INTEGRATED  
    RESERVE 308160.
```

AREA NAME IS PAC7AN
FILE_CODE IS "AN"
ALLOCATE 2400
PAGE_INTERVAL 8
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 20016.
AREA NAME IS PAC7AO
FILE_CODE IS "BN"
ALLOCATE 2400
PAGE_INTERVAL 8
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 20016.
AREA NAME IS SGDSDE
FILE_CODE IS "DE"
KEY FILE_CODE IS "ED"
ALLOCATE 512000
PAGE_SIZE 4096
LOAD_LIMIT IS 99
ORGANIZATION IS INDEXED
RESERVE 189440.
AREA NAME IS SGSDSC
FILE_CODE IS "DC"
KEY FILE_CODE IS "CD"
ALLOCATE 138240
PAGE_SIZE 4096
LOAD_LIMIT IS 25
ORGANIZATION IS INDEXED
RESERVE 486400.
AREA NAME IS SGSDSA
FILE_CODE IS "DA"
ALLOCATE 704
PAGE_INTERVAL 4
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 3520.
AREA NAME IS SGDSAD
FILE_CODE IS "AD"
ALLOCATE 31104
PAGE_INTERVAL 128
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 62208.
AREA NAME IS SGDSDX
FILE_CODE IS "DX"
ALLOCATE 220
PAGE_INTERVAL 4
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 1200.
AREA NAME IS SGSDSJ
FILE_CODE IS "DJ"
ALLOCATE 2880
PAGE_INTERVAL 32
CALC_INTERVAL NULL
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 26255.
AREA NAME IS SGSDSH
FILE_CODE IS "DH"
ALLOCATE 120
PAGE_INTERVAL 4
CALC_INTERVAL 4
PAGE_SIZE 4096
ORGANIZATION IS INTEGRATED
RESERVE 80.
RECORD NAME IS BE01

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TYPE IS 02.
RECORD NAME IS BE02
TYPE IS 04.
RECORD NAME IS BE03
TYPE IS 06.
RECORD NAME IS BE04
TYPE IS 08.
RECORD NAME IS BE05
RANGE IS 1
TO 8
WITHIN PAC7AN
TYPE IS 10.
RECORD NAME IS BE06
RANGE IS 9
TO 2400
WITHIN PAC7AN
TYPE IS 12.
RECORD NAME IS BE07
TYPE IS 14.
RECORD NAME IS BE08
TYPE IS 16.
RECORD NAME IS BE09
TYPE IS 18.
RECORD NAME IS BE10
TYPE IS 20.
RECORD NAME IS BE18
TYPE IS 21.
RECORD NAME IS BE11
TYPE IS 22.
RECORD NAME IS BE12
TYPE IS 24.
RECORD NAME IS BE19
TYPE IS 25.
RECORD NAME IS BE13
TYPE IS 26.
RECORD NAME IS BE14
TYPE IS 28.
RECORD NAME IS BE15
TYPE IS 30.
RECORD NAME IS BE16
TYPE IS 32.
KEY NAME IS XLE00
KEY_ID IS 00.
KEY NAME IS XGE00
KEY_ID IS 00.
KEY NAME IS XAP00
KEY_ID IS 00.
KEY NAME IS XAB00
KEY_ID IS 00.
KEY NAME IS XAC00
KEY_ID IS 00.
KEY NAME IS XIC00
KEY_ID IS 00.
KEY NAME IS XIE00
KEY_ID IS 00.
END_DMCL.

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4. BATCH PROCEDURES

4.1. INTRODUCTION

INTRODUCTION

Batch processing with DSMS is divided into various procedures which are described in the following chapters with their specific execution conditions.

For each procedure, there is:

- . A general introduction containing:
 - The presentation,
 - The execution condition(s),
 - The action to be taken in case of abnormal execution,
- . The description of user input, processes, results, and possible recommendations on use.
- . A presentation of each step containing:
 - The files used (temporary and permanent),
 - The return codes generated by the procedure (for each step).

4.2. CLASSIFICATION OF PROCEDURES

CLASSIFICATION OF PROCEDURES

There are various types of procedures.

DATABASE MANAGEMENT PROCEDURES:

- . Initialization of DSMS files (DINI)
- . Archiving of file update transactions (DARC)
- . Restoration of files using the backup and archived files (DRST)
- . Backup of files (DSAV)
- . Reorganization of cross-references files (DREO).

UTILITY PROCEDURES:

- . Extraction, from the VA Pac Journal, of transactions corresponding to modified VA Pac entities that relate to changes (DEXP).
- . Extraction, from the DSMS journal (DXBJ), of transactions for update by the DUPT batch procedure.
- . Printing of query results, and of table and keyword lists requests (DPRT).
- . Extraction from DSMS of events, changes, sites or tables as batch transactions (DEXT).
- . Extraction of DSMS tables to create lists of external values for the developer's workstation (revamped version) (DEXH).
- . Batch update of DSMS files of events, changes, sites or tables (DUPT).
- . Pre-processing of DAF source files (DPDF).
- . Renaming of table, site and keyword codes (DREN).

RETRIEVAL OF PREVIOUS RELEASES

For sites where DSMS monitors control VA Pac Databases, the installation of DSMS 2.5 requires version 8.0.2, or higher, of VA Pac.

PREVIOUS RELEASE RETRIEVAL PROCEDURES:

- . Retrieval of DSMS 8.0.1 Database (DR80).
- . Retrieval of DSMS 8.0.2 Database compatible with VA Pac 8.0.1 (DR8X) to be used when switching over from VA Pac 8.0.1 to 8.0.2.
- . Retrieval of DSMS 8.0.2 v01 or v02 Database (DR8Q) (retrieval of queries).
- . Retrieval of DSMS 1.2 Database (DR15)
- . Retrieval of DSMS 1.2 archived journal (DR5J)

RETRIEVAL OF A DATABASE FOR ANOTHER PLATFORM:

- . Replacement of low-values by blanks (DLVB).

4.3. ABNORMAL EXECUTION

ABNORMAL EXECUTIONS

The execution of a batch program may terminate abnormally. For example, input-output errors on the system files or the database will trigger six copies of a report printout (SYSOUT EI) listing the errors encountered, setting a value in SWITCH-20, and ending the procedure with the message "J3 ALOC DELETED JOB".

In most cases, this report will help the user find the cause of the ABORT (for example, resources not available, or a file that is too small, etc.).

If there is no such report and if the 'ABORT' type indicates a problem with VA Pac programs, contact the IBM technical support. All corresponding listings that may be necessary to analyze the problem should be saved.

The EI report is printed by the 'PACABE' sub-program. The user has the option of adding a specific error processing procedure conditioned by the value in SWITCH-20 at the end of each procedure.

Setting SWITCH-20 and GO TO branching are done systematically. Therefore, they are not mentioned in the procedure description, nor included in the flowcharts.

JCL INTRODUCTION

CYCLE SHIFTS

In order to ensure regular cycle shifts for the backup and archived files, the JCL supplied by IBM makes use of the JCL parameterization possibilities of GCOS8.

As a general rule, the following parameters apply:

-&FFI: Procedure Input File
-&FFO: Procedure Output File

'FF' = 'DC' for the Database Sequential Backup File
'FF' = 'DJ' for the DSMS Journal Sequential Backup File

Cycle shifts are ensured by replacing these parameters with different values.

For each one of the above-mentioned files, there are three sets of parameters.

EXAMPLE: DATABASE SEQUENTIAL BACKUP

```
$UMCU/$JCL.DC0
---> $          GLOBAL DCI=($UMCU/$FILU.DSAV0),
--->                   DCO=($UMCU/$FILU.DSAV1),

$UMCU/$JCL.DC1
---> $          GLOBAL DCI=($UMCU/$FILU.DSAV1),
--->                   DCO=($UMCU/$FILU.DSAV-1),

$UMCU/$JCL.DC-1
---> $          GLOBAL DCI=($UMCU/$FILU.DSAV-1),
--->                   DCO=($UMCU/$FILU.DSAV0).
```

The three backup files can be on different catalogs (see subchapter 'SYSTEM PARAMETERS' in chapter THE DSMS COMPONENTS).

The most recent version of the file is identified by the value of the &FFI parameter of the \$UMCU/\$JCL.FF0 member.

The previous version of the file is identified by the value of the &FFI parameter of the \$UMCU/\$JCL.FF-1 member.

Therefore, if the previous database backup must be restored, the card \$SELECT \$UMCU/JCL.DC0 must be replaced by the line \$SELECT \$UMCU/\$JCL.DC-1 in the DRST procedure.

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5. JOURNAL ARCHIVING

(DARC)

5.1. INTRODUCTION

DARC: INTRODUCTION

The Journal Archiving procedure (DARC) backs up the Journal file (DJ) as a sequential file (BJ), and reinitializes it both logically and physically.

The new archived transactions do not overwrite transactions previously archived; they are added to them.

The previously archived transactions can be deactivated, if requested.

EXECUTION CONDITION

The database must be closed to on-line use.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter 'THE BATCH PROCEDURES'.

If the abnormal end occurs before the step which creates the Journal file, the procedure can be restarted as it is, after the problem has been solved.

Otherwise, the procedure should be restarted after a modification of the user input in order to specify a reinitialization request without a backup of the Journal file (DJ) since it has already been backed up.

CAUTION:

With systems using generation files (MVS for instance), the +1 version of the archived transaction file could have been cataloged even if the procedure ended abnormally. In this case, the procedure must be executed again with the -1 version of the archived transaction file (not the 0 version) as input.

5.2. INPUT - PROCESSING - RESULTS

USER INPUT

The DARC procedure includes optional input for:

- . deactivating previously archived transactions that are now obsolete,
- . indicating the absence of previously archived transactions during input,
- . indicating the unavailability of the Data file (DA) during input,
- . requesting only a reinitialization of the transaction file.

```
The structure of this input is as follows:+-----+-----+-----+-----+
-----+
!POS.! LEN.! VALUE  ! MEANING                                     !
+-----+-----+-----+-----+
!  2 !  1 !  'S'  ! Line code                                     !
!  3 !  4 !  nnnn ! Session number                                     !
!  7 !  8 !CCYYMMDD! OR date up to which the user requests!
!    !   !      ! deactivation                                     !
! 15 !  1 !  'I'  ! Absence of previously archived       !
!    !   !      ! transactions                                     !
! 16 !  1 !  'D'  ! Data file (DA) unavailable         !
! 17 !  1 !  'J'  ! Re-initialization without backup    !
+-----+-----+-----+-----+
```

The session number and the date are independent of each other and must be treated as such. They are ignored if it is indicated that there are no previously archived transactions.

The unavailability of the Data file is indicated only when this file has been physically destroyed (see paragraph 'RECOMMENDATIONS').

The reinitialization request without an archiving is necessary when the Journal file is physically destroyed.

NOTE: In this case, the previous archiving is not duplicated on the output archiving. When the cataloging is automatic, previous archiving may be lost if no uncataloging is performed.

In case of an error on one of the options, an error message is printed and the archiving is generated using the default options.

RECOMMENDATIONS

If there is no user input, this procedure can be executed only if the database is in a consistent state, and if the Journal file is correctly formatted.

When a database needs to be restored after a problem, some information in the database may be destroyed and it is then not possible to execute the DARC nor the DRST procedures.

In this case, AND IN THIS CASE ONLY, columns 15 to 17 of the user input may be used as follows:

- . If the Data file (DA) is lost or has been flagged as 'inconsistent', a 'D' in column 16 means that the DARC procedure will not take the Data file (DA) into account. However, the DRST procedure must be executed afterwards, since under these conditions, the DARC procedure renders the database inconsistent.
- . If the Journal file (DJ) is lost or destroyed, a 'J' must be entered in column 17. The DARC procedure formats an empty Journal file. The DRST procedure can then be executed.
- . If the Archived Journal file (BJ) is lost or destroyed, a 'I' must be entered in column 15. The DARC procedure will format a new sequential archive file.

If one of these columns is accidentally set to its value, and the DARC procedure executed when the Data (DA) file is in a consistent state, the consequences are :

- . 'I' in col. 15: The transactions previously archived are lost. All the transactions can be recovered by concatenating BJ(-1) and BJ(0) to obtain BJ(+1).
- . 'D' in col. 16: The DARC procedure has to be re-run BEFORE any update. If it is done afterwards, the data is lost and a complete restoration must be executed.
- . 'J' in col. 17 : The contents of the Journal file are lost and cannot be retrieved.

REPORT RESULTS

This procedure prints a report giving the number of archived update transactions and, if applicable, the number of records that have been deactivated.

GENERAL RESULTS

Once this procedure is executed, a sequential file containing all archived transactions is obtained.

The Journal file is re-initialized.

It is also possible to store in another file all update transactions that have been deactivated.

NOTE: This procedure does not increment the current session number of the database.

5.3. DESCRIPTION OF STEPS

DARC: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

ARCHIVAL OF JOURNAL FILE: PDS300

This step executes the following:

. Updates the file of archived update transactions,
. Positions a flag in the Data file indicating the journal archiving,
. Writes the deactivated transactions onto a special file, if deactivation is requested by user input.

.Input files:
-User transaction File MB
-Already archived transactions PRMFL : \$UMCU/\$FILU.DARC(0) JB
-Journal file to reinitialize PRMFL : \$UMCB/\$BASE.DJ DJ
-Error message file PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input-Output file:
-Data file PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD

.Output files:
-Archived update transactions PRMFL : \$UMCU/\$FILU.DARC(+1) BJ
-Deactivated archived trans. PRMFL : \$UMCU/\$FILU.DARCBQ BQ

. Fichiers de tri File S1, S2, S3

.Output report:
-Review of archival SYSOUT RU

.Return codes:
Switch-30
. 0 : No error detected.
. 1 : I/O error detected.

RE-INITIALIZATION OF THE JOURNAL FILE: PDS320

This step executes the following:

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. Creates the first record in the Journal file

. Repositions the Data file flag.

.Input files:
-User transaction
FILE MB
-Error-message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input-Output file:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD

.Output file:
-Journal file to be reinitialized
PRMFL : \$UMCB/\$BASE.DJ DJ

.Output report:
-Review of reinitialization
SYSOUT RU

PHYSICAL INITIALIZATION OF JOURNAL FILE: Q2UTIL

Execution of the Q2UTIL utility on the journal (DJ).

. Output file:
- Journal file
PRMFL : \$UMCB/\$BASE.DJ DJ

5.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DARC
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * ARCHIVING THE DSMS JOURNAL *
$ NOTE * * *
$ NOTE * PARAMETER *
$ NOTE * * *
$ NOTE * DEV = NOTE IF 'JB' FILE IS NOT INITIALIZE *
$ NOTE * * *
$ NOTE * PRMFL ELSE *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DARC *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * COL 02 - 'S' *
$ NOTE * COL 03-06 - SESSION NUMBER *
$ NOTE * COL 07-14 - DATE (CCYYMMDD) *
$ NOTE * COL 15 - ' ' PRESENCE OF INPUT ARCHIVED *
$ NOTE * TRANSACTION FILE *
$ NOTE * - 'I' ABSENCE OF INPUT ARCHIVED *
$ NOTE * TRANSACTION FILE *
$ NOTE * COL 16 - ' ' PRESENCE OF DATA FILE (DA) *
$ NOTE * - 'D' ABSENCE OF DATA FILE (DA) *
$ NOTE * COL 17 - ' ' ARCHIVAL AND REINITIALIZATION *
$ NOTE * - 'J' REINITIALIZATION WITHOUT ARCHIVAL *
$ NOTE * * *
$ NOTE * IN THE ABSENCE OF INPUT (OR ERROR ON A COMMAND *
$ NOTE * PARAMETER), NO DEACTIVATION WILL TAKE PLACE, *
$ NOTE * HOWEVER ARCHIVAL AND RE-INITIALIZATION WILL BE *
$ NOTE * EXECUTED NORMALLY. *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DJO
$ GLOBAL DEV=PRMFL
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DARC
$ FILE BM,C1S,1R
$ PDS300.
$ OPTION CBL74
$ USE .DIBLD
$ OPTION LDLIB
$ EQUATE .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS300
$ EXECUTE DUMP
$ LIMITS ,80K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,L,R,$UMCB/$BASE.DA
$ PRMFL AD,L,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL DJ,Q,R,$UMCB/$BASE.DJ
$ &DEV JB,Q,R,&DJI
$ PRMFL BJ,L,R,&DJO
$ PRMFL BQ,L,R,$UMCU/$FILU.DARCBQ
$ FILE MB,C1S
$ FILE S1,,200R

```

```
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT EI,ORG
$ SYSOUT RU,ORG
$ IF 20+30,ERROR
$ Q2UTIL.
$ PROGRAM Q2UTIL
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DJ,L,R,$UMCB/$BASE.DJ
$ DATA I*
IDS2 INITIAL FC/DJ/
$ PDS320.
$ OPTION CBL74
$ USE .DIBLD
$ OPTION LDLIB
$ EQUATE .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS320
$ EXECUTE DUMP
$ LIMITS ,72K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,L,R,$UMCB/$BASE.DA
$ PRMFL AD,L,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL DJ,L,R,$UMCB/$BASE.DJ
$ FILE MB,C1R
$ SYSOUT EI,ORG
$ SYSOUT RU,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DJ1,NEWNAM/DJFIL/
MF DJ-1,NEWNAM/DJ1/
MF DJ0,NEWNAM/DJ-1/
MF DJFIL,NEWNAM/DJ0/
$ END.
$ CONVER
$ DATA IN
***** DARC - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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6. PRINTING OF QUERIES AND OUTPUT REPORTS (DPRT)

6.1. INTRODUCTION

DPRT: INTRODUCTION

The DPRT procedure performs all the printing operations for DSMS:

- . Results of DSMS Queries on Events, Changes and Sites, (this order must be respected)
- . Printouts of Tables, Keywords, Queries and Layouts.

See the DSMS Reference Manual for practical information on how to submit a DPRT execution in either batch or on-line mode.

NOTE: Printouts of Tables and Keywords can be submitted in batch mode only.

Technical information regarding the JOB Function allowing for DPRT on-line submissions is given at the end of this chapter.

EXECUTION CONDITIONS

None.

The Database can remain open to on-line processing.

ABNORMAL EXECUTION

Refer to Chapter THE BATCH PROCEDURES, Subchapter 'Abnormal Execution'.

6.2. INPUT - PROCESSING - RESULTS

USER INPUT

A compulsory '*' line:

Col.	Len.	Value	Description
2	1	'*'	Line Code
3	8	uuuuuuuu	DSMS User Code
11	8	pppppppp	Password
19	3	ppp	Product Code
22	2	su	Subsidiary Code
24	1	l	Language Code

4 report types exist, 1 line per printout is necessary :

Col.	Len.	Value	Description
! TABLES			
02	03	Txx	Table codes for Txx
06	02	C1	... with their label in connected user language (default option)
06	02	C2	... with all labels
02	03	TUD	User codes with all authorizations (TUG + TUP + TUS)
! QUERIES / REPORTS			
02	04	X QC	Query on Changes
		X QE	Query on Events
		X QS	Query on Sites
02	04	X RC	Report on Changes
		X RE	Report on Events
		X RS	Report on Sites
06	06	xxxxxx	Query or Report code
12	08	uuuuuuuu	User code for Query or Report owner (default value: connected user code)
20	02	C1	Print of all description pages for the Query/report type (default option)
			for the Query/report type (default option)
		C2	Print of only useful query/report description lines

```

+-----+
!Col.! Len.! Value  ! Description  !
+-----+
! LISTS                                             !
+-----+
! 02 ! 03 !  LJO  ! Control cards  !
! 02 ! 04 ! LCQC ! Query on Changes  !
!   !   ! LCQE ! Query on Events  !
!   !   ! LCQS ! Query on Sites  !
! 02 ! 04 ! LCRC ! Reports on Changes  !
!   !   ! LCRE ! Reports on Events  !
!   !   ! LCRS ! Reports on Sites  !
! 07 ! 02 !  C1  ! Print of all description pages  !
!   !   !     ! for the Query/report type  !
!   !   !     ! (default option)  !
!   !   !     ! for the Query/report type  !
!   !   !  C2  ! Print of only useful Query/Report  !
!   !   !     ! description lines  !
! 12 ! 08 !uuuuuuu! User code for Query/report owner  !
+-----+
! KEYWORDS                                         !
+-----+
! 02 ! 04 ! LAKC ! Stand-alone Keywords for Changes  !
!   !   ! LPKC ! Principal keywords for Changes  !
!   !   ! LGKC ! All keywords for Changes  !
! 06 ! 01 !  1  ! Keywords language code (default:  !
!   !   !     ! connected user language code)  !
! 02 ! 04 ! LAKE ! Stand-alone Native Keywords for Evnts!
!   !   ! LPKE ! Principal Native Keywords for Events!
!   !   ! LGKE ! All Native Keywords for Events  !
! 02 ! 04 ! LAKT ! Stand-alone Techn. Keywords for Evnts!
!   !   ! LPKT ! All main keywords for Events  !
!   !   ! LGKT ! All keywords  !
+-----+

```



```

+-----+-----+-----+-----+
!Col.! Len.! Value  ! Description  !
+-----+-----+-----+-----+
!      !      !      ! .PRINT VIA USER QUERY:  !
!  5  !  6  ! rrrrrr ! Code of the user query (required)  !
!      !      !      ! 'Q' Entity used.        !
!  5  !  6  ! mmmmmmm ! Code of the layout (optional)  !
! 17  !  1  ! d      ! Delimiter          (optional)  !
!      !      !      ! Parameters:          !
! 18  !  1  ! s      ! Symbol              -          !
! 19  !  1  ! x      ! Separator           -          !
! 20  ! 54  ! ..... ! Parameter values   -          !
!      !      !      ! If optional fields have not been  !
!      !      !      ! filled in, default values are used.  !
!      !      !      ! They come from the definition lines  !
!      !      !      ! of the user query found in the Data-  !
!      !      !      ! Base.                  !

```

```

+-----+-----+-----+-----+

```

PRINTED OUTPUT

Two types of printed output are obtained:

- Results of user-defined QUERIES on Events, Changes and Sites.
- Standard printouts of Tables, Keywords, Queries and Layouts.

RETURN CODE

```

+-----+-----+-----+-----+
!  0  ! OK with queries  !
!  4  ! OK with tables, kw, query or report list requests  !
!  8  ! OK with erroneous query or other request  !
! 12  ! Fatal error      !
! 16  ! Sort error       !
+-----+-----+-----+-----+

```

6.3. DESCRIPTION OF STEPS

DPRT: DESCRIPTION OF STEPS

This procedure calls a unique program (PDSB) that acts as flow monitor for the different programs, which are therefore sub-programs of this monitor. The procedure includes the following steps:

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

The input file is automatically formatted when QUERIES are submitted in the same mode.

PRINTING: PDSE

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-VA Pac element file
PRMFL : \$UMCB/\$BASE.DC \$UMCB/\$BASE.CD DC, CD
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input file:
-User queries
File MB

.Work files:
-Print requests
File KD
-Requests
File KQ
-Temporary files
File W1 --> W4
- Sort files
File S1, S2, S3
SYSOUT IA

.Output reports:
-Flow report
SYSOUT IB
-List of queries and requests
File ID
-Print of tables and keywords
File IQ
-Report of query extractions
SYSOUT QI
-Print of query extractions
SYSOUT RQ
-Print of queries/layouts
SYSOUT JQ
-Print of check cards

PRINTING OF QUERIES AND OUTPUT REPORTS (DPRT)
DESCRIPTION OF STEPS

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BCD PRINTING: PBCD ET PBCDRQ

These printout are performed by a CONVER.

ASCII PRINTING: PASCII ET PASCRO

These printout are performed by a CONVER.

6.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DPRT
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * QUERY PRINT *
$ NOTE * SYMBOLICS *
$ NOTE * * *
$ NOTE * FILE = NOTE IF BATCH SUBMISSION. *
$ NOTE * FILE IF TP SUBMISSION BY 'JOB'. *
$ NOTE * * *
$ NOTE * PRMFL = PRMFL IF BATCH SUBMISSION. *
$ NOTE * NOTE IF TP SUBMISSION BY 'JOB'. *
$ NOTE * * *
$ NOTE * IMP = ASCII IF ASCII PRINTING FORMAT *
$ NOTE * BCD IF BCD PRINTING FORMAT *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DPRT *
$ NOTE * * *
$ NOTE *****
$ GLOBAL FILE=NOTE,PRMFL=PRMFL
$ GLOBAL IMP=BCD
$ SELECT $UMCU/$JCL.DPRE
$ ENDJOB
```

```
$      NOTE      *****
$      NOTE      * DSMS                                     *
$      NOTE      * ====                                     *
$      NOTE      *                                         *
$      NOTE      * FIRST PART OF THE DPRT PROCEDURE FOR 'JOB' *
$      NOTE      * FUNCTION SUBMISSION.                       *
$      NOTE      *                                         *
$      NOTE      *****
$ UTL8.  ***** GBCD ---> ASCII *****
$      UTL8
U8FD ME,TSS.
READ AA 1F WRITE ME.
$      FILE      ME,M1S,10L
$      DATA      AA
```

```
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * QUERY-PRINT REQUESTS PROCESS *
$ NOTE * USED IN BATCH AND BY THE 'JOB' FUNCTION. *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ DEFAULT FILE=FILE,PRMFL=NOTE
$ DEFAULT IMP=BCD,RMTA=( $RMTA ),RMTB=( $RMTB)
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ &FILE MB,M1R
$ &PRMFL MB,R,S,$UMCU/$MB.DPRT
$ FILE BM,C1S,1R
$ PDSB.
$ PROGRAM RLHS,ON1,DUMP
$ LIMITS ,100K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DC,Q,R,$UMCB/$BASE.DC
$ PRMFL CD,Q,R,$UMCB/$BASE.CD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ FILE MB,C1R
$ FILE KD,,1R
$ FILE KQ,,50R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ FILE W1,,100R
$ FILE W2,,100R
$ FILE W3,,100R
$ FILE W4,,100R
$ FILE ID,T1S,50L
$ FILE IQ,T2S,50L
$ SYSOUT EI,ORG
$ SYSOUT IA,ORG
$ SYSOUT IB,ORG
$ SYSOUT JQ,ORG
$ SYSOUT QI,ORG
$ SYSOUT RQ,ORG
$ PRMFL H*,R/C,R,$UMCS/$HSTAR.PDSB
$ IF 20,ERROR
$ IF 19,END
$ GOTO P&IMP
$ PBCD.
$ BCD-PRINT 132 CH.
$ IF /23,PBCDRQ
$ CONVER
$ LIMITS ,,10K
$ FILE IN,T1R
$ SYSOUT OT,&RMTB
$ OUTPUT GBCD,MEDIA/3
$ IF /22,END
$ PBCDRQ.
$ CONVER
$ LIMITS ,,10K
$ FILE IN,T2R
$ SYSOUT OT,&RMTB
$ OUTPUT GBCD,MEDIA/3
$ GOTO END
$ PASCII.
$ ASCII-PRINT 132 CHA.
$ IF /23,PASCRQ
$ CONVER
$ LIMITS ,,10K
$ FILE IN,T1R
```

```
$      SYSOUT  OT,&RM TA
$      OUTPUT  ASCII,MEDIA/7
$ PASCRO.
$      IF      /22,END
$      CONVER
$      LIMITS  ,,10K
$      FILE    IN,T2R
$      SYSOUT  OT,&RM TA
$      OUTPUT  ASCII,MEDIA/7
$ END.
$      CONVER
$      DATA   IN
**** DPRE - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

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7. DATABASE RESTORATION

(DRST)

7.1. INTRODUCTION

DRST: INTRODUCTION

The Database Restoration procedure (DRST) restores the files, using the sequential image produced by the Database Backup procedure (DSAV).

Archived transactions can also be retrieved once this procedure has been executed.

EXECUTION CONDITIONS

The database must be closed to on-line processing.

The procedure physically and logically re-initializes the Journal file which must have been saved previously by the DARC procedure.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

Whatever the cause, the procedure can be restarted as it is after the problem is solved.

DEFINITION CONTROL SUB-PROGRAMS

Sub-programs (delivered as COBOL sources) are designed to add specific controls or initializations on the 5 DSMS definitions.

At the beginning, these sources only include 3 examples:

- 1 'WARNING'-type error
- 1 critical error
- 1 initialization.

Their linkage is made up of the displayed fields, the entered fields or some other fields directly or indirectly associated with the definition.

At these sub-programs' return, an error message can then be displayed or the values of the displayed fields can be modified.

NOTES:

- . The usual controls on definitions are executed before and after their call.
- . When WARNING errors are set, a message is sent to the Definition screen and the sub- program is recalled to reinitialize the PR which is set to 'W'.

These sub-programs are called via tops indicated in the technical record of the DRST procedure.

7.2. INPUT - PROCESSING - RESULTS

USER INPUT

The following chart lists the DRST procedure's input.

! POS. !	! LEN. !	! VALUE !	! MEANING !
! 2 !	! 1 !	! 'R' !	! Line code !
! 3 !	! 1 !	! '1' !	! Language code 'E' or 'F' (optional) !
! 4 !	! 1 !	! !	! Journal inhibition flag !
! !	! !	! '0' !	! No inhibition (default option) !
! !	! !	! '1' !	! Inhibition !
! 5 !	! 1 !	! !	! Not used !
! 6 !	! 3 !	! 'REC' !	! Restoration and retrieval of archived !
! !	! !	! !	! transactions !
! 9 !	! 12 !	! !	! 12-position table indicating the !
! !	! !	! !	! PFkeys assignment !
! !	! !	! !	! (default: 123456789ABC, but you may !
! !	! !	! !	! move or set to blank one or several !
! !	! !	! !	! values) !
! 21 !	! 1 !	! !	! SECURITY SYSTEM INTERFACE !
! !	! !	! ' ' !	! Retrieval of the previous value or !
! !	! !	! !	! no interface (for creation) !
! !	! !	! '&' !	! Clear = Deactivation !
! !	! !	! 'R' !	! RACF !
! !	! !	! 'S' !	! TOPSECRET !
! 22 !	! 1 !	! !	! USER CONTROL USING ON-LINE RACF !
! !	! !	! ' ' !	! Retrieval of the previous value !
! !	! !	! '&' !	! Clear = it is possible to enter !
! !	! !	! !	! a user-password different from the !
! !	! !	! !	! one entered at the first connection !
! !	! !	! 'N' !	! It is not possible to enter another !
! !	! !	! !	! user-password !
! 23 !	! 1 !	! 'C' !	! Encryption of passwords !
! !	! !	! 'D' !	! Decryption of passwords !
! !	! !	! ' ' !	! Unchanged passwords !
! !	! !	! !	! NOTE: it is not advised at all to !
! !	! !	! !	! request an encryption or decryption !
! !	! !	! !	! of passwords in the same as a !
! !	! !	! !	! retrieval of archived transactions !
! !	! !	! !	! request (because the action is not !
! !	! !	! !	! performed on the journal). !

COL.	Len.	Value	Designation
26	1	'C'	Call of the sub-routine of additional controls for change definition
		'&'	No call of sub-routine
27	1	'E'	Call of the sub-routine of additional controls for event definition
		'&'	No call of sub-routine
28	1	'Q'	Call of the sub-routine of additional controls for query definition
		'&'	No call of sub-routine
29	1	'R'	Call of the sub-routine of additional controls for layout definition
		'&'	No call of sub-routine
30	1	'S'	Call of the sub-routine of additional controls for site definition
		'&'	No call of sub-routine

REPORT

This procedure prints a report listing the requested options, associated errors, the number of records restored in the database for each file, and the options stored in the new database.

RESULT

Once this procedure is executed, the current session number is that of the sequential image or that of the most recent transaction, if archived transaction retrieval has been requested.

7.3. DESCRIPTION OF STEPS

DRST: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

VALIDATION OF JOURNAL CONTENTS: PDS380

This step is executed only when the Journal file exists. In this case, it verifies that the journal has been archived.

.Input files:
-Journal file
PRMFL : \$UMCB/\$BASE.DJ DJ
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Output report:
-AJ file status report
SYSOUT RU
It is printed if the journal file has not been archived.

.Return codes:
Switch-30
.0: The journal file is archived.
.1: The journal file is not archived;
(None of the DRST steps is executed).

RE-INITIALIZATION OF DATABASE: Q2UTIL

This step is executed only if the journal file is archived.

It executes the Q2UTIL utility on the database integrated files.

. Output files:
PRMFL : \$UMCB/\$BASE.DJ DJ
PRMFL : \$UMCB/\$BASE.DH DH
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
PRMFL : \$UMCB/\$BASE.DX DX

DATABASE RESTORATION: PDS400

This step is executed only when the Journal file has been archived.

.Permanent input files:
-Backup of the files
PRMFL : \$UMCU/\$FILU.DSAV(0) BB
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Permanent output files:
-Data file

DATABASE RESTORATION
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PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-VA Pac element file
PRMFL : \$UMCB/\$BASE.DC \$UMCB/\$BASE.CD DC, CD
-Journal file
PRMFL : \$UMCB/\$BASE.DJ DJ
-Cross-reference file
PRMFL : \$UMCB/\$BASE.DX DX

.Input transaction file:
-User transactions
File MB

.Output file:
-Work file (2 records)
File MS

.Output report:
-Restoration report

RETRIEVAL OF ARCHIVED JOURNAL: PDS450

This step is executed only when there are transactions to be retrieved. It does not cause a 'journalization' of processed transactions.

.Permanent input-output files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-VA Pac element file
PRMFL : \$UMCB/\$BASE.DC \$UMCB/\$BASE.CD DC, CD
-Cross-reference file
PRMFL : \$UMCB/\$BASE.DX DX

.Input files:
-Work file (2 records)
File MS
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input archived file:
-Archiving of the journal to retrieve
PRMFL : \$UMCU/\$FILU.DARC(0) BJ

.Output report:
-Update report
SYSOUT RU

7.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DRST
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * LOADING-RESTORATION OF DSMS DATABASE *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DRST *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * COL 02 - 'R' *
$ NOTE * COL 03 - INITIAL LANGUAGE CODE *
$ NOTE * 'F' = FRENCH *
$ NOTE * 'E' = ENGLISH *
$ NOTE * COL 04 - INHIBITION OF TRANSACTION LOG *
$ NOTE * '0' NO (DEFAULT) *
$ NOTE * '1' YES *
$ NOTE * COL 05 - NOT USED *
$ NOTE * COL 06-08 - 'REC' RETRIEVAL OF ARCHIVED TRANSACTIONS*
$ NOTE * COL 09-20 - PFKEYS ASSIGNMENT *
$ NOTE * COL 21-22 - NOT USED *
$ NOTE * COL 23 - ENCRYPTION/DECRYPTION OF PASSWORDS *
$ NOTE * 'C' ENCRYPTION *
$ NOTE * 'D' DECRYPTION *
$ NOTE * COL 24-25 - NOT USED *
$ NOTE * COL 26 - CALL OF SUB-PGM FOR CHANGES *
$ NOTE * COL 27 - CALL OF SUB-PGM FOR EVENTS *
$ NOTE * COL 28 - CALL OF SUB-PGM FOR QUERIES *
$ NOTE * COL 29 - CALL OF SUB-PGM FOR LAYOUTS *
$ NOTE * COL 30 - CALL OF SUB-PGM FOR SITES *
$ NOTE * * *
$ NOTE * IF THE JOURNAL FILE OF TRANSACTIONS ON DISK (DJ) *
$ NOTE * IS NOT REINITIALIZED, NO RESTORATION IS EXECUTED. *
$ NOTE * IT IS THEREFORE NECESSARY TO EXECUTE THE DAR *
$ NOTE * PROCEDURE FIRST. *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DC0
$ SELECT $UMCU/$JCL.DJ0
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DRST
$ FILE BM,C1S,1R
$ PDS380.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS380
$ EXECUTE DUMP
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DJ,Q,R,$UMCB/$BASE.DJ
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ SYSOUT RU,ORG
$ SYSOUT EI,ORG
$ IF 20+30,ERROR
$ Q2UTIL.
$ PROGRAM Q2UTIL
$ LIMITS ,45K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR

```

```

$      PRMFL  DJ,L,R,$UMCB/$BASE.DJ
$      PRMFL  DH,L,R,$UMCB/$BASE.DH
$      PRMFL  DA,L,R,$UMCB/$BASE.DA
$      PRMFL  AD,L,R,$UMCB/$BASE.AD
$      PRMFL  DX,L,R,$UMCB/$BASE.DX
$      DATA  I*
IDS2   INITIAL FC/DJ/
IDS2   INITIAL FC/DH/
IDS2   INITIAL FC/DA/
IDS2   INITIAL FC/AD/
IDS2   INITIAL FC/DX/
$ PDS400.
$      OPTION CBL74
$      USE    .DIBLD
$      OPTION LDLIB
$      EQUATE .DIBLD/.DBPKL/
$      LIBRARY LA, LB
$      SELECT $UMCS/$OBJBT.PDS400
$      EXECUTE DUMP
$      LIMITS ,60K
$      PRMFL  1*,R/C,R,&(SCHEM)1STAR
$      PRMFL  LB,R/C,S,&(SCHEM)CSTARSG
$      PRMFL  LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL  DA,L,R,$UMCB/$BASE.DA
$      PRMFL  AD,L,R,$UMCB/$BASE.AD
$      PRMFL  DC,L,R,$UMCB/$BASE.DC
$      PRMFL  CD,L,R,$UMCB/$BASE.CD
$      PRMFL  DJ,L,R,$UMCB/$BASE.DJ
$      PRMFL  DX,L,R,$UMCB/$BASE.DX
$      PRMFL  DE,Q,R,$UMCB/$BASE.DE
$      PRMFL  ED,Q,R,$UMCB/$BASE.ED
$      PRMFL  BB,Q,R,&DCI
$      FILE   MB,C1R
$      FILE   MS,R1S,1R
$      DATA  .U
FILE   FC/DC/,LOVI/10/,GOVI/500/
$      SYSOUT RU,ORG
$      SYSOUT EI,ORG
$      IF     20,ERROR
$ PDS450.
$      OPTION CBL74
$      USE    .DIBLD
$      OPTION LDLIB
$      EQUATE .DIBLD/.DBPKL/
$      LIBRARY LA, LB
$      SELECT $UMCS/$OBJBT.PDS450
$      EXECUTE DUMP
$      LIMITS ,60K
$      PRMFL  1*,R/C,R,&(SCHEM)1STAR
$      PRMFL  LB,R/C,S,&(SCHEM)CSTARSG
$      PRMFL  LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL  DA,L,R,$UMCB/$BASE.DA
$      PRMFL  AD,L,R,$UMCB/$BASE.AD
$      PRMFL  DC,L,R,$UMCB/$BASE.DC
$      PRMFL  CD,L,R,$UMCB/$BASE.CD
$      PRMFL  DX,L,R,$UMCB/$BASE.DX
$      PRMFL  DE,Q,R,$UMCB/$BASE.DE
$      PRMFL  ED,Q,R,$UMCB/$BASE.ED
$      PRMFL  BJ,Q,R,&DJI
$      FILE   MS,R1R
$      SYSOUT RU,ORG
$      SYSOUT EI,ORG
$      IF     20,ERROR
$ END.
$      CONVER
$      DATA  IN
***** DRST - NORMAL END OF RUN *****
$      SYSOUT OT,ORG
$      OUTPUT MEDIA/03
$ ERROR.
$      ENDJOB

```


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8. DATABASE BACKUP

(DSAV)

8.1. INTRODUCTION

DSAV: INTRODUCTION

The purpose of the backup procedure (DSAV) is to convert the main files that make up DSMS into a BB sequential format.

The backed-up files are :

- . The Data file (DA),
- . The VA Pac Element file (DC),
- . The Cross-reference file (DX).

EXECUTION CONDITION

The database must be closed to on-line processing in order to ensure its consistency during the execution of the DSAV procedure.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

The main cause of an abend is that the database has not been closed to on-line use.

After correction, the procedure can be restarted as it is.

8.2. INPUT - PROCESSING - RESULTS

USER INPUT

One optional line code.

```
-----  
!Col.! Len.! Value  ! Designation  !  
!-----+-----+-----!  
!  2 !   1 ! 'O'   ! Line Code    !  
!  3 !   3 ! 'ENC' ! Encryption of passwords !  
!    !    ! 'DEC' ! Decryption of passwords !  
!    !    ! ' '   ! Unchanged passwords  !  
-----
```

REPORT RESULTS

Once the backup is executed, a report is printed. It includes the number of records saved in each file and the session number.

GENERAL RESULTS

The output is a single sequential file (BB) of variable length, containing the image of the three saved files.

If the database is not in a coherent state as a result of an abnormal end in the last update, the DSAV procedure is not executed.

NOTE:

The DSAV procedure increments the current session number.

8.3. DESCRIPTION OF STEPS

DSAV: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

```
. Input file:
  PRMFL : $UMCU/$MB.&PROC           MB
    (PROC is the procedure code)
. Output file:
  File                                 BM
```

DATABASE CONSISTENCY CHECK: PDSBAS

```
.Permanent input files:
-Data file
  PRMFL : $UMCB/$BASE.DA $UMCB/$BASE.AD   DA, AD
-Error message file
  PRMFL : $UMCB/$BASE.DE $UMCB/$BASE.ED   DE, ED

.Output report
-Validity report
  SYSOUT                                 RS
```

Return code(s):

```
Switch-30
  0 : The database is consistent
  1 : the Dtabase is not consistent
    (no other step of the procedure is executed)
```

DSMS BACKUP: PDS500

```
.Input-Output file:
-Data file
  PRMFL : $UMCB/$BASE.DA $UMCB/$BASE.AD   DA, AD

.Permanent Input files:
-VA Pac element file
  PRMFL : $UMCB/$BASE.DC $UMCB/$BASE.CD   DC, CD
-Cross-reference file
  PRMFL : $UMCB/$BASE.DX                 DX
-Error message file
  PRMFL : $UMCB/$BASE.DE $UMCB/$BASE.ED   DE, ED

.Input transaction file:
-User transactions
  File                                 MB

.Output file:
-Sequential image of files
  PRMFL : $UMCU/$FILU.DSAV(+1)          BB

.Output report:
-Backup report
  SYSOUT                                 RU
```

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

8.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DSAV
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * BACKUP OF THE DSMS DATABASE *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DSAV *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * COL 02 - 'O' *
$ NOTE * COL 03-05 - ENCRYPTION/DECRYPTION OF PASSWORDS *
$ NOTE * 'ENC' ENCRYPTION *
$ NOTE * 'DEC' DECRYPTION *
$ NOTE * ' ' UNCHANGED PASSWORDS *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DC0
$ PDS500.
$ OPTION CBL74
$ USE .DIBLD
$ OPTION LDLIB
$ EQUATE .DIBLD/.DBPKL/
$ LIBRARY LA, LB
$ SELECT $UMCS/$OBJBT.PDS500
$ EXECUTE DUMP
$ LIMITS 30,150K,10K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,L,R,$UMCB/$BASE.DA
$ PRMFL AD,L,R,$UMCB/$BASE.AD
$ PRMFL DC,Q,R,$UMCB/$BASE.DC
$ PRMFL CD,Q,R,$UMCB/$BASE.CD
$ PRMFL DX,Q,R,$UMCB/$BASE.DX
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL BB,L,R,&DCO
$ FILE MB,C1R
$ SYSOUT EI,ORG
$ SYSOUT RU,ORG
$ IF 20+30,ERROR
$ FILSYS.
$ FILSYS
$ CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DSAV - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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9. REORGANIZATION OF CROSS-REFERENCE FILE (DREO)

9.1. INTRODUCTION

INTRODUCTION

The Cross-Reference Reorganization procedure (DREO) rebuilds a sequential image of the database using another sequential image as a starting point. The resulting file will be used as input to the Restoration (DRST) procedure.

The operating principle of this procedure is to rebuild the cross-references associated with the data from the 'image' of this data.

EXECUTION CONDITIONS

The database can remain open to on-line processing during reorganization since the procedure operates on the sequential images of the database.

The updates executed after the backup file used for reorganization is rebuilt, can be retrieved during the restoration of the reorganized database.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

In case of an abnormal end, the procedure must be restarted from the beginning.

9.2. INPUT - PROCESSING - RESULTS

USER INPUT

Three different types of user input can be entered, but only one line of each type.

The format of this input is provided below.

```

+-----+-----+-----+-----+
!POS.! LEN.! VALUE ! MEANING !
+-----+-----+-----+-----+
! 1 ! 1 ! !Not Used! !
! ! ! ! ! !
! 2 ! 1 ! 'P' ! Deletion of Products !
! ! 1 ! 'S' ! Deletion of Subsidiaries !
! ! 1 ! 'X' ! Deletion of Product/Subsidiary !
! ! ! ! ! !
! 3 ! 60 !Product ! (20 x 3 char.) If Col.2 = 'P' !
! ! ! code ! !
! ! 60 !Subsid. ! (30 x 2 char.) If Col.2 = 'S' !
! ! ! code ! !
! ! 60 !Prod./ ! (12 x 5 char.) If Col.2 = 'X' !
! ! !Subsid. ! !
! ! ! ! !
+-----+-----+-----+-----+
  
```

REPORT

This procedure prints messages stating inconsistencies found in the Data file.

RESULT

The result of this procedure is a reorganized sequential image of the DSMS database, used as input to the Restoration (DRST) procedure.

9.3. DESCRIPTION OF STEPS

DREO : DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

BUILDING OF INDEXES (except keywords): PDSR10

.Input file:
-Input file
FILE MB

.Permanent Input files:
-DSMS database backup
PRMFL : \$UMCU/\$FILU.DSAV(0) BB
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Work files:
-Data and VA Pac elements
File W1
-Keywords and keyword references
File W2
-Cross-references (except keywords)
File W3
-Sort files
File S1, S2, S3

.Output reports:
-Inconsistencies among DSMS data
SYSOUT RH
-Reorganization report
SYSOUT RK

BUILDING OF KEYWORD INDEXES: PDSR20

.Work files:
-Keywords and keyword references
File W2
-Keywords
File W4
-Keyword references
File W5
-Sort files
File S1, S2, S3

MERGE OF INDEXES: PDSR30

.Work files:
-Cross-references (except keywords)
File W3
-Keyword references
File W5
-Keyword references
File W6
-Sort files
File S1, S2, S3

REORGANIZATION OF CROSS-REFERENCE FILE
DESCRIPTION OF STEPS

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GENERAL MERGE FOR BACKUP: PDSR40

.Work files:
-Data and VA Pac elements
 File W1
-Keywords
 File W4
-Keyword references
 File W6
-Sort files
 File S1, S2, S3

.Permanent input file:
-Error message file
 PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Permanent output file:
-Reorganized DSMS database backup
 PRMFL : \$UMCU/\$FILU.DSAV(+1) BB

.Output report:
-Reorganization report
 SYSOUT RR

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

9.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DREO
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * REORGANIZATION *
$ NOTE * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DREO *
$ NOTE * *
$ NOTE * INPUT SYNTAX *
$ NOTE * *
$ NOTE * COL 02 - DOMAINE CONCERNE *
$ NOTE * (ONE LINE OF EACH TYPE MAXIMUM) *
$ NOTE * 'P' PRODUCT *
$ NOTE * 'S' SUBSIDIARY *
$ NOTE * 'X' PRODUCT/SUBSIDIARY *
$ NOTE * COL 03-62 - CONCATENATION OF CODES *
$ NOTE * PRODUCT CODE, 3 CHARACTERS *
$ NOTE * SUBSIDIARY CODE, 2 CHARACTERS *
$ NOTE * PRODUCT-SUBSIDIARY CODE, 5 CHARACTERS *
$ NOTE *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DCO
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DREO
$ FILE BM,C1S,1R
$ PDSR10.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSR10
$ EXECUTE DUMP
$ LIMITS ,70K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL BB,Q,R,&DCI
$ FILE MB,C1R
$ FILE W1,R1S,100R
$ FILE W2,R2S,100R
$ FILE W3,R3S,100R
$ SYSOUT RH,ORG
$ SYSOUT RK,ORG
$ SYSOUT EI,ORG
$ IF 20,ERROR
$ PDSR20.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR20
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE W2,R2R
$ FILE W4,R4S,100R
$ FILE W5,R5S,100R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PDSR30.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR30
$ EXECUTE DUMP
$ LIMITS ,20K
    
```

```

$ FILE W3,R3R
$ FILE W5,R5R
$ FILE W6,R6S,100R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PDSR40.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSR40
$ EXECUTE DUMP
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL BB,L,R,&DCO
$ FILE W1,R1R
$ FILE W4,R4R
$ FILE W6,R6R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT RR,ORG
$ SYSOUT EI,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DREO - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
  
```

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10. EXTRACTION FROM VA PAC ARCHIVED JOURNAL (DEXP)

10.1. INTRODUCTION

EXTRACTION FROM ARCHIVED JOURNAL (DEXP): INTRODUCTION

The Archived Journal Extraction procedure (DEXP) extracts transactions associated to Changes from the VA Pac Archived Journal file, and formats them in order to update, in the DSMS Database, the modified elements corresponding to each Change.

EXECUTION CONDITIONS

None.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

If an abnormal end occurs, the procedure can be restarted with no additional modifications after the problem has been solved.

NOTES:

The DEXP procedure operates with a VA Pac 2.0 or higher Journal.

The DEXQ procedure operates with a Journal in a VA Pac release lower than 2.0.

10.2. INPUT - PROCESSING - RESULTS

USER INPUT

One '*'-line is required:

! POS.!	! LEN.!	! VALUE	! MEANING	!
! 2	! 1	! '*'	! Line code	!
! 3	! 8	! uuuuuuuu	! DSMS user code	!
! 11	! 8	! pppppppp	! User password	!

One extraction line is also required:

! POS.!	! LEN.!	! VALUE	! MEANING	!
! 2	! 1	! 'J'	! Line code (required)	!
!	!	!	! THE FOLLOWING FIELDS ARE OPTIONAL :	!
! 3	! 1	! ' '	! List of selected transactions	!
!	!	! 'N'	! No list	!
! 4	! 24	!	! Selection in the VA Pac Database:	!
! 4	! 4	! nnnn	! Session number, begin. of selection	!
! 8	! 4	! pppp	! Session number, end of selection	!
!	!	!	! --> Selection on session(s)	!
!	!	!	! prohibits selection on date(s)	!
! 12	! 8	! CCYYMMDD	! Starting date for selection	!
!	!	! 'TODAY'	! Starting date = current date	!
! 20	! 8	! CCYYMMDD	! Ending date for selection	!
!	!	! 'TODAY'	! Ending date = current date	!
!	!	!	! (default value if st. date ='today')	!
! 28	! 1	!	! Version of selected transactions	!
!	!	! ' '	! Selection of all sessions	!
!	!	! 'T'	! Selection of frozen session	!
!	!	! 'Z'	! Selection of current session	!
! 29	! 3	! ppp	! Product code	!
! 32	! 4	! xxxx	! VA Pac Database logical code	!
! 36	! 3	! lll	! Code of selected library	!
! 39	! 16	!	! Type of selected entities	!
! 55	! 1	! ' '	! Extraction of transactions made	!
!	!	!	! under change 999999	!
!	!	! 'N'	! No extraction of 999999-change	!
!	!	!	! transactions	!
! 56	! 1	! ' '	! Printing of duplicate transactions	!
!	!	!	! for the same VA Pac entity	!
!	!	! 'N'	! No printing of duplicate transact-	!
!	!	!	! ions	!
! 57	! 6	! nnnnnn	! Change number	!

REPORT

Extraction report showing the list of formatted transactions.

RESULT

A DSMS database update transaction file to be used as input to the DUPT procedure.

10.3. DESCRIPTION OF STEPS

DEXP: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

TRANSACTION EXTRACTION AND FORMATTING: PDS600

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD

-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED
-VA Pac archived transactions
PRMFL : \$UMCUP/\$FILP.ARCH(0) PJ

.Input transaction file:
-User transactions
File MB

.Sort files:
File S1, S2, S3

.Output file:
-Update transaction file for DUPT
File MV

.Output report:
-Report on selection request
SYSOUT RU

PRINTING OF DSMS UPDATE TRANSACTIONS: PDS610

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD

-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input File:
-Update transaction file
File IM

.Output report:
-List of update transactions
SYSOUT RU

.Return codes:

TRANSACTION FORMATTING ON 80 CHARACTERS: PDSV80

.Input file:
-DSMS update transactions
File IM

.Output file:
-DSMS update transactions in TSS format
PRMFL: \$UMCU/\$MV.&PROC MV
(PROC is the procedure code)

10.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DEXP
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * EXTRACTION OF VA PAC JOURNAL *
$ NOTE * FOR DSMS UPDATE *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DEXP *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * .. A DSMS USER AND PASSWORD LINE *
$ NOTE * COL 02 - '*' *
$ NOTE * COL 03-10 - DSMS USER CODE *
$ NOTE * COL 11-18 - PASSWORD *
$ NOTE * .. EXTRACTION REQUEST LINE(S) *
$ NOTE * COL 02 - 'J' *
$ NOTE * COL 03 - SELECTED TRANSACTIONS *
$ NOTE * ' ' LIST *
$ NOTE * 'N' NO LIST *
$ NOTE * COL 04-07 - STARTING SESSION NUMBER *
$ NOTE * COL 08-11 - ENDING SESSION NUMBER *
$ NOTE * COL 12-19 - STARTING DATE *
$ NOTE * CCYYMMDD *
$ NOTE * 'TODAY' CURRENT DATE *
$ NOTE * COL 20-27 - ENDING DATE *
$ NOTE * CCYYMMDD *
$ NOTE * 'TODAY' CURRENT DATE *
$ NOTE * COL 28 - SESSION OF SELECTED TRANSACTIONS *
$ NOTE * ' ' ALL SESSIONS *
$ NOTE * 'T' TEST FROZEN SESSION *
$ NOTE * 'Z' CURRENT SESSION *
$ NOTE * COL 29-31 - PRODUCT CODE *
$ NOTE * COL 32-35 - VA PAC DATABASE LOGICAL CODE *
$ NOTE * COL 36-38 - LIBRARY CODE *
$ NOTE * COL 39-54 - TYPE OF ENTITIES TO BE SELECTED *
$ NOTE * COL 55 - TRANSACTIONS UNDER CHANGE 999999 *
$ NOTE * ' ' EXTRACTION *
$ NOTE * 'N' NO EXTRACTION *
$ NOTE * COL 56 - DUPLICATE TRANSACTIONS *
$ NOTE * ' ' PRINTING *
$ NOTE * 'N' NO PRINTING *
$ NOTE * COL 57-62 - CHANGE NUMBER *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCUP/$JCLP.PJ0
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DEXP
$ FILE BM,C1S,1R
$ PDS600.
$ OPTION CBL74
$ USE .DIRTV, .DIBLD
$ NLOAD .DIDYN
$ OPTION LDLIB
$ EQUATE .DIRTV/.DIDYN/, .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS600
$ EXECUTE DUMP
$ LIMITS ,70K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
```

```
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL PJ,Q,R,&PJI
$ FILE MB,C1R
$ FILE MV,C3S,100R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT RU,ORG
$ SYSOUT EI,ORG
$ IF 20,ERROR
$ IF /30,PDSV80
$ PDS610.
$ OPTION CBL74
$ USE .DIRTV, .DIBLD
$ NLOAD .DIDYN
$ OPTION LDLIB
$ EQUATE .DIRTV/.DIDYN/, .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS610
$ EXECUTE DUMP
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ FILE MV,C3S
$ SYSOUT RU,ORG
$ SYSOUT EI,ORG
$ IF 20,ERROR
$ PDSV80.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSV80
$ EXECUTE DUMP
$ LIMITS ,50K
$ FILE IM,C3R
$ PRMFL MV,W,S,$UMCU/$MV.DEXP
$ END.
$ CONVER
$ DATA IN
***** DEXP - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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11. EXTRACTION OF ENTITIES

(DEXT)

11.1. INTRODUCTION

ENTITY EXTRACTION (DEXT): INTRODUCTION

The Entity Extraction procedure (DEXT) extracts all DSMS entities and formats them into batch transactions to be used as input to the DSMS Database Updating (DUPT) procedure.

PRINCIPLE

In order to select the extraction of Changes, Events or Sites, the procedure uses Queries ("Q" entities) that must be previously defined in the DSMS Database. These three types of extraction must be requested in the above order.

The Query code should also be specified in the extraction request (see 'User Input').

The screen map ("R" entity) associated with the Query used for the extraction does not interfere in the extraction.

EXECUTION CONDITIONS

None.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

If an abnormal end occurs, the procedure can be restarted as it is after the problem has been solved.

11.2. INPUT - PROCESSING - RESULTS

USER INPUT

One '*'-line is required:

```
+-----+-----+-----+-----+-----+
! POS.! LEN.! VALUE  ! MEANING                                     !
+-----+-----+-----+-----+-----+
!  2  !  1  ! '*'    ! Line code                                     !
!  3  !  8  ! !uuuuuuu! DSMS User code                             !
! 11  !  8  ! !pppppppp! User password                               !
! 19  !  3  ! !ppp    ! Product code                                 !
! 22  !  2  ! !su     ! Subsidiary code                               !
! 24  !  1  ! !l     ! Language code                                 !
+-----+-----+-----+-----+-----+
```

Four types of extractions are available. One line per request is necessary:

```
+-----+-----+-----+-----+-----+
!Pos.! Len.! Value  ! Meaning                                     !
+-----+-----+-----+-----+-----+
! 02 !  03 ! 'PL'   ! Locking of databases                             !
+-----+-----+-----+-----+-----+
! 02 !  03 ! Txx    ! Codes of the Txx table                         !
!   !   !       ! (all tables except TRA)                       !
+-----+-----+-----+-----+-----+
! QUERIES / LAYOUTS:                                     !
+-----+-----+-----+-----+-----+
! 02 !  04 ! X QC   ! Query on Changes                               !
!   !   ! X QE   ! Query on Events                               !
!   !   ! X QS   ! Query on Sites                               !
! 02 !  04 ! X RC   ! Layout on Changes                             !
!   !   ! X RE   ! Layout on Events                             !
!   !   ! X RS   ! Layout on Sites                             !
! 12 !  08 ! !uuuuuu! Owner of the Query or Layout                 !
!   !   !       ! (Default=logged-in user)                       !
+-----+-----+-----+-----+-----+
```

!Pos.!	Len.!	Value	!	Meaning	!
! 02 !	! 04 !	! LCQC	!	! Queries on Changes	!
! !	! !	! LCQE	!	! Queries on Events	!
! !	! !	! LCQS	!	! Queries on Sites	!
! 02 !	! 04 !	! LCRC	!	! Layouts on Changes	!
! !	! !	! LCRE	!	! Layouts on Events	!
! !	! !	! LCRS	!	! Layouts on Sites	!
! 12 !	! 08 !	!uuuuuuuu!	!	! Owner of Queries or Layouts	!
! KEYWORDS:					!
! 02 !	! 04 !	! LAKC	!	! Isolated keywords of Changes	!
! !	! !	! LGKC	!	! All Changes' Keywords	!
! 06 !	! 01 !	! 1	!	! Language code of Keywords	!
! !	! !	!	!	! (Default=Language of logged-in user)	!
! 02 !	! 04 !	! LAKE	!	! Native isolated Keywords of Events	!
! !	! !	! LGKE	!	! All Events' Keywords	!
! 02 !	! 04 !	! LAKT	!	! Techn. isolated Keywords of Events	!
! !	! !	! LGKT	!	! All Keywords	!

```

+-----+
!Pos.! Len.! Value  ! Meaning
+-----+
!      !      !      ! .EXTRACTION VIA USER QUERY:
!  5 !  6 ! rrrrrr ! User Query code (required)
!      !      !      ! - 'Q' Entity use
!  5 !  6 ! mmmmmm ! Layout code (optional)
! 17 !  1 ! d      ! Delimiter (optional)
!      !      !      ! Parameter settings:
!      !      !      ! -----
! 18 !  1 ! s      ! Symbol -
! 19 !  1 ! x      ! Separator -
! 20 ! 54 ! ..... ! Parameter values -
!      !      !      !
!      !      !      ! If some optional fields were not
!      !      !      ! completed, default values will be
!      !      !      ! used. They come from the User
!      !      !      ! Query's definition lines found in
!      !      !      ! the Database.
+-----+
    
```

PRINTED OUTPUT

Extraction report showing the number of extracted transactions.

RESULT

DSMS database update transactions to be used as input to the DUPT procedure.

This procedure displays a general return code:

```

+-----+
!  0 ! OK
!  8 ! Erreur on '*' line
!      ! or on command line
! 12 ! I/O error or inconsistency
!      ! of DSMS database
! 16 ! Sort error
+-----+
    
```


11.3. DESCRIPTION OF STEPS

DEXT: DESCRIPTION OF STEPS

This procedure calls a unique program (PDSEX) that acts as a flow monitor for all programs, which are then considered as its sub-programs.

The procedure includes the following steps:

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

EXTRACTIONS: PDSEX

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-VA Pac element file
PRMFL : \$UMCB/\$BASE.DC \$UMCB/\$BASE.CD DC, CD
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED
.Input transaction file:
-Extraction requests
File MB
.Work files:
-Queries
File KQ
-Temporary files
File W0, W1, W2
W3, W4, W5
WI
.Output reports:
-Flow report
SYSOUT IA
-Extraction request report
File RU
.Sort files:
File S1, S2, S3
.Output file:
-Extracted batch transactions
File IM

TRANSACTION FORMATTING ON 80 CHARACTERS: PDSV80

.Input file:
-DSMS update transactions
File IM

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.Output file:
-DSMS update transactions in TSS format
PRMFL: \$UMCU/\$MV.&PROC MV
(PROC is the procedure code)

11.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DEXT
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * EXTRACTION OF BATCH TRANSACTIONS FOR DUPT *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DEXT *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * ONE IDENTIFICATION CARD IS REQUIRED *
$ NOTE * COL 02 - '*' *
$ NOTE * COL 03-10 - DSMS USER CODE *
$ NOTE * COL 11-18 - PASSWORD *
$ NOTE * COL 19-21 - PRODUCT CODE *
$ NOTE * COL 22-23 - SUBSIDIARY CODE *
$ NOTE * EXTRACTION REQUEST CARDS *
$ NOTE * COL 02-05 - TYPE OF EXTRACTION *
$ NOTE * -- EXTRACTION BY USER QUERY *
$ NOTE * COL 05-10 - QUERY CODE *
$ NOTE * COL 17 - DELIMITER (OPTIONAL) *
$ NOTE * COL 18 - SYMBOL (OPTIONAL) *
$ NOTE * COL 19 - SEPARATOR (OPTIONAL) *
$ NOTE * COL 20-73 - PARAMETERS VALUES (OPTIONAL) *
$ NOTE * -- EXTRACTION OF QUERIES/LAYOUT *
$ NOTE * COL 06-11 - QUERY OR LAYOUT CODE *
$ NOTE * COL 12-19 - OWNER OF THE QUERY/LAYOUT (OPTIONAL) *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ GLOBAL IMP=ASCII,RMTA=($RMTA),RMTB=($RMTB)
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DEXT
$ FILE BM,C1S,1R
$ PDSEX.
$ PROGRAM RLHS,ON1,DUMP
$ LIMITS ,220K,,50K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DC,Q,R,$UMCB/$BASE.DC
$ PRMFL CD,Q,R,$UMCB/$BASE.CD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ FILE MB,C1R
$ FILE KQ,C2S,50R
$ FILE IM,C3S,50R
$ FILE RU,C4S,50L
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ FILE W0,,100R
$ FILE W1,,100R
$ FILE W2,,100R
$ FILE W3,,100R
$ FILE W4,,100R
$ FILE W5,,100R
$ FILE W1,,100R
$ SYSOUT EI,ORG
$ SYSOUT IA,ORG
$ PRMFL H*,R/C,R,$UMCS/$HSTAR.PDSEX
$ IF 20,ERROR
```

```
$ PDSV80.  
$ OPTION CBL74  
$ SELECT $UMCS/$OBJBT.PDSV80  
$ EXECUTE DUMP  
$ LIMITS ,30K  
$ FILE IM,C3R  
$ PRMFL MV,W,S,$UMCU/$MV.DEXT  
$ GOTO P&IMP  
$ PBCD.  
$ BCD-PRINT 132 CH.  
$ CONVER  
$ LIMITS ,,,10K  
$ FILE IN,C4R  
$ SYSOUT OT,&RMTB  
$ OUTPUT GBCD,MEDIA/3  
$ GOTO END  
$ PASCII.  
$ ASCII-PRINT 132 CH.  
$ CONVER  
$ LIMITS ,,,10K  
$ FILE IN,C4R  
$ SYSOUT OT,&RMTA  
$ OUTPUT ASCII,MEDIA/7  
$ END.  
$ CONVER  
$ DATA IN  
**** DEXT - NORMAL END OF RUN ****  
$ SYSOUT OT,ORG  
$ OUTPUT MEDIA/03  
$ ERROR.  
$ ENDJOB
```

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12. EXTRACTION OF TABLES FOR EXTERNAL LISTS (DEXH)

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12.1. INTRODUCTION

DEXH: INTRODUCTION

The DEXH procedure extracts all the information contained in DSMS tables in order to create a file that can be used by a developer's workstation.

With the resulting file, the developer can create 'external value lists', used by the 'revamped' (using the PAW function) DSMS workstations.

For further details, see the PAW OPERATOR'S HANDBOOK, chapter 'Revamping of IBM Products'.

EXECUTION CONDITIONS

None.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

If an abnormal end occurs, the procedure can be restarted with no additional modifications after the problem has been solved.

12.2. INPUT - PROCESSING - RESULTS

USER INPUT

! Pos.	! Len.	! Value	! Meaning
! 2	! 1	! '*'	! Line code
! 3	! 8	! uuuuuuuu	! DSMS User code
! 11	! 8	! pppppppp	! Password
! 19	! 3	! ppp	! Product code
! 22	! 2	! su	! Subsidiary code

REPORT

Extraction report showing the list of extracted tables.

RESULT

All general tables (not linked to a specific product) as well as the OPTIONS, PHASES and VERSIONS tables of the product specified in the user input.

12.3. DESCRIPTION OF STEPS

DEXH: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

EXTRACTION FOR PAW WORKSTATIONS: PDSXTH

This program extracts the values contained in tables: TST
TSU, TGR, TPR, TRE, TTY, TUD, TAT, TLA, TPH, and TOP
to be read on 'revamped' DSMS workstations.

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED
.Input transaction file:
-User check
File MB
.Output file:
-Extracted tables
PRMFL : \$UMCU/\$MV.DEXH MV
.Output report:
-Extraction report
SYSOUT RH
.Sort files:
File S1, S2, S3

12.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DEXH
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * TABLE EXTRACTION FOR REVAMPING *
$ NOTE * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DEXH *
$ NOTE * *
$ NOTE * INPUT SYNTAX *
$ NOTE * *
$ NOTE * COL 02 - '*' *
$ NOTE * COL 03-10 - DSMS USER CODE *
$ NOTE * COL 11-18 - PASSWORD *
$ NOTE * COL 19-21 - PRODUCT CODE *
$ NOTE * COL 22-23 - SUBSIDIARY CODE *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DEXH
$ FILE BM,C1S,1R
$ PDSXTH.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSXTH
$ EXECUTE DUMP
$ LIMITS ,100K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ FILE MB,C1R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PRMFL MV,W,S,$UMCU/$MV.DEXH
$ SYSOUT EI,ORG
$ SYSOUT RH,ORG
$ IF 20,ERROR
$ END.
$ CONVER
$ DATA IN
**** DEXH - NORMAL END OF RUN ****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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BATCH UPDATE OF ENTITIES

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13. BATCH UPDATE OF ENTITIES

(DUPT)

13.1. INTRODUCTION

DUPT: INTRODUCTION

The Batch Update of Entities procedure (DUPT) updates the DSMS entities with transactions from the DEXT, DEXP and/or DXBJ procedures.

Transactions can also be entered directly in a file, using an editor. For a complete description of the batch transactions, see the 'BATCH TRANSACTIONS STRUCTURE' appendix of the DSMS Reference Manual.

EXECUTION CONDITION

The DSMS files must be closed to on-line use.

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

Whatever the cause, the procedure can be restarted as it is once the problem is solved.

CAUTION:

This procedure performs a GLOBAL update. Therefore, make sure that all the data fields have been filled in. The data fields that are not filled in will automatically be set to blank.

The Change, Event and Site Definition screens require two update lines, and both lines must be filled.

DSMS automatically allocates numbers to Events or Changes when they are created. However, for its creation, an Event or Change must be allocated a temporary number. For example, to create a Change: C000001, where 000001 is the temporary number that DSMS will automatically replace with a unique number.

You must set the action code to 'C', since the system does not provide for implicit creation.

Several Changes or Events can be created concurrently. In this case, each Change or Event being created must be allocated a different temporary number. For example, to create 3 Changes simultaneously: C000001, C000002 and C000003.

NOTE: Each transaction stream can only contain 2,520 changes and 2,520 events maximum (internal limit of the program).

13.2. INPUT - PROCESSING - RESULTS

USER INPUT

- One Parameter line (optional).
- One Identification line per Product/Subsidiary concerned by the updates (required).
- Update transactions extracted and formatted by the DEXT, DEXP or DXBJ procedures.
- The user must add at least one identification line in front of update transactions.

Parameter line (optional)

```

+-----+
!Col Len! Value ! Description !
+-----+
! 2 1 ! $ ! LINE CODE !
! 3 1 ! ! UPDATE MODE / SORT ORDER !
! ! ! ! This field defines the update mode !
! ! ! ! processing to be used by ALL userids !
! ! ! ! for this execution of the DSMS batch !
! ! ! ! procedure. !
! ! A ! NORMAL UPDATE MODE !
! ! ! ! - Transactions are sorted in ascending !
! ! ! ! order before any updates are applied !
! ! ! ! (i.e. entity definitions are processed !
! ! ! ! before sub-screen records.) !
! ! ! ! - The upate mode is specified for each !
! ! ! ! sign-on record. !
! ! D ! DELETE MODE !
! ! ! ! - Transactions are sorted in descending !
! ! ! ! order before any updates are applied. !
! ! ! ! - All transactions are processed as !
! ! ! ! deletes - Action Code D'. !
! ! ! ! - Sign-on records must specify 'NORMAL' !
! ! ! ! mode - all other modes will be consi- !
! ! ! ! dered an error. !
! 4 1 ! ! REPORT FORMAT INDICATOR !
! ! ! 1 ! SINGLE REPORT FORMAT !
! ! ! ! - One 'END OF REPORT' line is produced. !
! ! ! ! - The transaction 'INPUT NUMBER' is !
! ! ! ! simply incremented by one for each !
! ! ! ! transaction. !
! ! ! 2 ! SIGN-ON / USERID FORMAT 1 !
! ! ! ! - An 'END OF REPORT' line is produced for !
! ! ! ! each userid / sign-on record. !
! ! ! ! - The transaction 'INPUT NUMBER' is reset !
! ! ! ! to one for each sign-on record. !
! ! ! ! The sign-on record will appear as !
! ! ! ! transaction number one. !
! ! ! 3 ! SIGN-ON / USERID FORMAT 2 !
! ! ! ! - An 'END OF REPORT' line is produced for !
! ! ! ! each userid / sign-on record. !
! ! ! ! - The transaction 'INPUT NUMBER' is reset !
! ! ! ! to zero for each sign-on record. !
! ! ! ! The sign-on record will appear as !
! ! ! ! transaction number zero. !
+-----+

```

If the parameter line is not entered, '\$A1' is assumed.

Sign-on line format (required)

```

+-----+
!Col Len! Value ! Description !
+-----+
! 1 1 ! ! ACTION CODE / UPDATE MODE !
! ! ! This field defines the update mode !
! ! ! processing to be used for this userid. !
! ! blank ! NORMAL UPDATE MODE. !
! ! ! - Works like DSMS on-line. !
! ! ! - If an Event or Change is created, all !
! ! ! following sub-screen transactions will !
! ! ! be modified accordingly. !
! ! V ! VERSION CONTROL MODE. !
! ! ! - All batch transactions will be proces- !
! ! ! sed with Action Code 'C' (create). !
! ! ! - The external reference fields on Event !
! ! ! and Change Definitions will be !
! ! ! filled in. !
! ! ! - The associated change fields on Event !
! ! ! Definitions will be converted to the !
! ! ! 'new' Change Number - the number !
! ! ! assigned when the Change is created. !
! ! R ! REORGANIZATION MODE. !
! ! ! - The same as 'V' except that the !
! ! ! external reference fields' content !
! ! ! will not be altered. !
! ! ! !
! 2 1 ! * ! SIGN-ON RECORD CODE !
! 3 8 ! ... ! DSMS userid !
! 11 8 ! ... ! DSMS userid password !
! 19 3 ! ppp ! PRODUCT CODE to which updates apply. !
! 22 2 ! ss ! SUBSIDIARY CODE to which batch updates !
! ! ! apply. !
! 24 1 ! blank ! Unused !
! 25 9 ! ! EXTERNAL REFERENCE VALUES !
! ! ! The value of the next three fields is !
! ! ! used to create Event and Change external !
! ! ! references if the update mode is 'V'. !
! 25 4 ! dddA ! - DSMS external Database code !
! 29 3 ! ppp ! - DSMS external Product code !
! 32 2 ! ss ! - DSMS external Subsidiary code !
+-----+

```

```
+-----+
!Col Len! Value ! Description !
+-----+
! 34 1 !          ! BLANK LINE AFTER ERRORS INDICATOR !
!          ! blank ! A blank line will be printed after each !
!          !          ! error message on the report. !
!          ! N      ! Blank lines will not be printed after !
!          !          ! error messages on the report. !
! 35 1 !          ! REPORT PAGE BREAK INDICATOR !
!          ! blank ! A new page will begin when the maximum !
!          !          ! number of lines per page has been !
!          !          ! exceeded. !
!          ! T      ! A new page will begin for each new !
!          !          ! transaction type. !
!          ! E      ! A page break will occur for each !
!          !          ! entity transaction type. !
! 36 1 !          ! TRANSACTION SORT INDICATOR !
!          ! blank ! The transactions will be sorted by type !
!          !          ! before they are processed. !
!          ! N      ! The transactions will be processed in !
!          !          ! their arrival order. !
+-----+
```

REPORT

The printout generated by this procedure is an update report, with comments about irregularities or inconsistencies encountered during execution.

RESULT

The result of this procedure is:

- . A DSMS database ready for on-line or batch processing,
- . A Journal file of the transactions which have modified the database; if 'journalization' was not inhibited during the last restoration.

NOTE: This procedure increments the session number if it is the first access to the database for the current day.

13.3. DESCRIPTION OF STEPS

DUPT: DESCRIPTION OF STEPS

UPDATE OF THE DSMS DATABASE: PDSUP0

.Permanent input-output files:

-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-Va Pac element file
PRMFL : \$UMCB/\$BASE.DC \$UMCB/\$BASE.CD DC, CD
-Cross-reference file
PRMFL : \$UMCB/\$BASE.DX DX

.Permanent input file:

-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Input transaction file:

-Update transactions obtained via
the DEXP procedure
File IM

.Output file:

-Journal file
PRMFL : \$UMCB/\$BASE.DJ DJ

.Output report:

-Update review
SYSOUT RP

.Return codes:

\$\$1

```
+-----+
! 0  ! No error                                     !
! 8  ! Error on the user line code or on a parameter !
! 12 ! I/O error on a file                          !
+-----+
```

13.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DUPT
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * DSMS DATABASE UPDATE *
$ NOTE * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DUPT *
$ NOTE * *
$ NOTE * WRITE WITH TP8 ON-LINE *
$ NOTE * LEC=(R/C) ECR=(W/C) *
$ NOTE * *
$ NOTE * SEQ=N --> FILE SEQUENCE RESTART NUMBER *
$ NOTE * *
$ NOTE * RSET= NO --> NO RESTART *
$ NOTE * RSET=YES --> REQUEST RESTART AFTER A PROBLEM *
$ NOTE * AT A REFERENCE POINT *
$ NOTE * *
$ NOTE * FREQUENCY OF REFERENCE POINTS DEFINED BY A *
$ NOTE * Y-TYPE LINE IN TRANSACTION INPUT *
$ NOTE * (FIRST LINE OF THE INPUT TRANSACTION) *
$ NOTE * COL 2 --> Y COL 5 --> 9999 *
$ NOTE * 9999 = FREQUENCY OF REFERENCE POINTS *
$ NOTE * *
$ NOTE * WRITE WITHOUT TP8 ON-LINE OR WITHOUT REQUESTING *
$ NOTE * A CHECKPOINT *
$ NOTE * LEC=Q ECR=L SEQ=0 RSET=NO *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ GLOBAL MBFILE=($MB.DUPT)
$ GLOBAL LEC=(R/C)
$ GLOBAL ECR=(W/C)
$ GLOBAL RSET=(NO)
$ GLOBAL SEQ=(1)
$ GOTO RST&RSET
$ RSTNO.
$ SELECT $UMCU/$JCL.FCRS
$ GOTO PDSV25
$ RSTYES.
$ SET 19
$ PDSV25.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSV25
$ EXECUTE DUMP
$ LIMITS ,50K
$ PRMFL MB,R,S,$UMCU/&MBFILE
$ FILE IM,C1S,50R
$ PDSUP.
$ PROGRAM RLHS,ON1,DUMP
$ LIMITS ,200K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DA,&ECR,R,$UMCB/$BASE.DA
$ PRMFL AD,&ECR,R,$UMCB/$BASE.AD
$ PRMFL DC,&ECR,R,$UMCB/$BASE.DC
$ PRMFL CD,&ECR,R,$UMCB/$BASE.CD
$ PRMFL DE,&LEC,R,$UMCB/$BASE.DE
$ PRMFL ED,&LEC,R,$UMCB/$BASE.ED
$ PRMFL DX,&ECR,R,$UMCB/$BASE.DX
$ PRMFL DJ,&ECR,R,$UMCB/$BASE.DJ
$ PRMFL RS,L,R,$UMCU/$FILU.RS&SEQ
$ FILE QX,,500R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ FILE IM,C1R
$ SYSOUT EI,ORG

```

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```
$      SYSOUT  RP,ORG
$      PRMFL   H*,R/C,R,$UMCS/$HSTAR.PDSUP
$      IF      20,ERROR
$ PURGERS.
$      SELECT  $UMCU/$JCL.FPRS
$ END.
$      CONVER
$      DATA   IN
**** DUPT - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

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14. FILE INITIALIZATION

(DINI)

14.1. INTRODUCTION

DINI: INTRODUCTION

The DINI procedure initializes the files needed for the installation of a new DSMS database.

It provides an initial backup of the DSMS files, which must be loaded by the Database Restoration (DRST) procedure.

EXECUTION CONDITIONS

None.

However, the parameters of the new DSMS database must have been previously defined, and must be different from the parameters in any other existing DSMS database.

The initial allocation and loading of DSMS components must have been executed (see the Installation Process).

ABNORMAL EXECUTION

Refer to Subchapter 'Abnormal Execution' in Chapter THE BATCH PROCEDURES.

If an abnormal end occurs, the procedure can be restarted as it is after the problem has been solved.

14.2. INPUT - PROCESSING - RESULTS

USER INPUT

The structure of the input is as follows:

```
+-----+-----+-----+-----+
! POS.! LEN.! VALUE ! MEANING !
+-----+-----+-----+-----+
!  2  !  1  ! 'I'  ! Line code !
!  3  !  1  ! 'l'  ! Initial language code !
!    !    !     ! (E by default: English) !
!  4  !  1  !     ! This field is ONLY used with DOS/VSE !
!    !    ! 'I'  ! Default option for all hardware !
!    !    ! 'N'  ! If CURRENT-DATE = DD/MM/YY in DOS/VSE!
+-----+-----+-----+-----+
```

REPORT

This procedure prints a report listing the requested options and the number of initial records of the DSMS database files.

RESULT

The result is an initial backup including:

- an initial user, whose userid is '*****' and whose password is '*****'
(See the paragraph that follows: INITIAL CONNECTION.)
- a record in the Language Table corresponding to the language code indicated in the user input.

* IMPORTANT NOTE *

INITIAL CONNECTION:

The Database Restoration (DRST) procedure must be executed after the DINI procedure. After a successful execution of the DRST procedure, the DSMS database is installed.

Verify that the on-line access to the new DSMS database is operational.

The initial connection to the DSMS database is executed as follows:

- Access the DSMS database.
- On the Sign-On screen, enter '*****' as the user code and '*****' as the password, then press the ENTER key.
- Among the choices listed on the menu, only those marked with a '*' may be accessed. They correspond to the Tables which must be updated for proper operation of DSMS.

The information must be entered in the Tables in the following order:

- . In the Languages Table (CHOICE: 'TLA'): the codes and labels of the languages used.
- . In the Products Table (CHOICE: 'TPR'): the product codes and labels.
- . In the Subsidiaries Table (CHOICE: 'TSU'): the subsidiary codes and labels.
- . In the User Parameters Tables (CHOICES: 'TUD', 'TUG', 'TUP' and 'TUS'): user codes and authorizations.

(For more details, see the DSMS Reference Manual).

The '*****' user code cannot be deleted: after the User Parameters Tables are updated, the DSMS Database Manager should change passwords in order to prevent the use of this code by others.

14.3. DESCRIPTION OF STEPS

DINI: DESCRIPTION OF STEPS

This procedure includes the following steps:

INITIAL DATABASE BACKUP: PDSINI

.Input transaction file:
-Initialization transaction
File MB

.Permanent input file:
-Error messages
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED

.Output file:
-Sequential images of files
PRMFL : \$UMCU/\$FILU.DSAV(+1) BB

.Output file:
-Backup report
SYSOUT RU

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

14.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DINI
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * INITIALIZATION OF DSMS FILES *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DINI *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * USER ENTRIES *
$ NOTE * COL 02 - 'I' *
$ NOTE * COL 03 - INITIAL LANGUAGE CODE *
$ NOTE * 'F' FRENCH *
$ NOTE * 'E' ENGLISH *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DC0
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DINI
$ FILE BM,C1S,1R
$ PDSINI.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSINI
$ EXECUTE DUMP
$ LIMITS ,80K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL BB,L,R,&DCO
$ FILE MB,C1R
$ SYSOUT EI,ORG
$ SYSOUT RU,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DINI - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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15. JOURNAL EXTRACTION FOR UPDATE 'DXBJ'

15.1. INTRODUCTION

DXBJ: INTRODUCTION

The DXBJ procedure extracts, from the DSMS journal file, all the transactions corresponding to a date/time interval or to a given user, and transforms them into update transactions.

EXECUTION CONDITIONS

None.

ABNORMAL EXECUTION

Refer to Chapter THE BATCH PROCEDURES, Subchapter 'Abnormal Execution'.

Whatever may be the reason for the abnormal end, the procedure can be restarted as it is once the problem has been solved.

15.2. INPUT - PROCESSING - RESULTS

USER INPUT

One '*' -line is required:

!Pos.!	Len.!	Value	! Meaning	!
! 2 !	1 !	'*'	! line code	!
! 3 !	8 !	uuuuuuuu	! User code	!
! 11 !	8 !	pppppppp	! User password	!
!-----+-----+-----+-----+-----!				
			Optional	!
!-----+-----+-----+-----+-----!				
! 19 !	3 !	ppp	! Product code	!
! 22 !	2 !	su	! Subsidiary code	!
! 24 !	1 !	'F' or 'E'	! Language code	!
! !	! !	! !	! USERS/PASSWORDS IN OUTPUT TRANSAC.	!

One line per extraction request:

!Pos.!	Len.!	Value	! Meaning	!
! 2 !	1 !	'K'	! Line code	!
! 3 !	1 !	' '	! List of selected transactions	!
! !	! !	'N'	! No list	!
! 4 !	8 !	!CCYMMDD!	! Starting date for selection	!
! 12 !	8 !	!CCYMMDD!	! Ending date for selection	!
! 20 !	6 !	!HHMMSS!	! Starting time for selection	!
! 26 !	6 !	!HHMMSS!	! Ending time for selection	!
! 32 !	8 !	!uuuuuuuu!	! Selected user code	!
! 40 !	1 !	' '	! User codes present in journal file	!
! !	! !	! !	! without password.	!
! !	! !	'T'	! User codes present in journal file	!
! !	! !	! !	! with passwords if sufficient	!
! !	! !	! !	! authorization.	!
! !	! !	'1'	! User code and password, detailed in	!
! !	! !	! !	! following columns.	!
! 41 !	8 !	!uuuuuuuu!	! User code for output transactions	!
! !	! !	! !	! (if column 40 = 1)	!
! 48 !	8 !	!mmmmmmmm!	! Password for output transactions	!
! !	! !	! !	! (if column 40 = 1)	!

REPORT

Extraction report and, upon request, the list of formatted transactions.

RESULT

A DSMS update transaction file to be used as input to the DUPT procedure. An 'N' is placed in column 36 of the user lines for DUPT not to sort these transactions.

15.3. DESCRIPTION OF STEPS

DXBJ: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

TRANSACTION EXTRACTION AND FORMATTING: PDS700

.Permanent input files:
-Data file
PRMFL : \$UMCB/\$BASE.DA \$UMCB/\$BASE.AD DA, AD
-Error message file
PRMFL : \$UMCB/\$BASE.DE \$UMCB/\$BASE.ED DE, ED
-Archived DSMS journal
PRMFL : \$UMCU/\$FILU.DARC(+1) BJ
.Input transaction file :
-User transactions
File MB
.Output file:
-Update transaction file for DUPT
File IM
.Output reports:
-Extraction review
File RK
-Transaction printout
File SK
.Return codes:
.0 : No error
.8 : Error on the user '*' line or on a parameter
The environment definition is missing.
.12: File access error
The technical record is missing.

TRANSACTION FORMATTING ON 80 CHARACTERS: PDSV80

.Input file:
-DSMS update transactions
File IM
.Output file:
-DSMS update transactions in TSS format
PRMFL: \$UMCU/\$MV.&PROC MV
(PROC is the procedure code)

15.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DXBJ
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * * *
$ NOTE * EXTRACTION OF DSMS JOURNAL FOR DSMS UPDATE *
$ NOTE * * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DXBJ *
$ NOTE * * *
$ NOTE * INPUT SYNTAX *
$ NOTE * * *
$ NOTE * .. ONE LINE FOR USER AND DSMS PASSWORD *
$ NOTE * COL 02 - '*' *
$ NOTE * COL 03 - DSMS USER CODE *
$ NOTE * COL 11 - PASSWORD *
$ NOTE * COL 19-21 - PRODUCT CODE (OPTIONAL) *
$ NOTE * COL 22-23 - SUBSIDIARY CODE (OPTIONAL) *
$ NOTE * COL 24 - LANGAGE CODE (OPTIONAL) *
$ NOTE * .. EXTRACTION COMMAND LINE *
$ NOTE * COL 02 - 'K' *
$ NOTE * COL 03 - SELECTED TRANSACTIONS *
$ NOTE * ' ' LIST *
$ NOTE * 'N' NO LIST *
$ NOTE * COL 04-11 - STARTING DATE (CCYYMMDD) *
$ NOTE * COL 12-19 - ENDING DATE (CCYYMMDD) *
$ NOTE * COL 20-25 - STARTING HOUR (HHMMSS) *
$ NOTE * COL 26-31 - ENDING HOUR (HHMMSS) *
$ NOTE * COL 32-39 - USER CODE *
$ NOTE * * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DJ0
$ PDS700.
$ OPTION CBL74
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS700
$ EXECUTE DUMP
$ LIMITS ,90K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ FILE IM,C3S,100R
$ PRMFL BJ,Q,R,&DJI
$ FILE MB,C1R
$ FILE SK,C4S,50L
$ FILE RK,C5S,50L
$ SYSOUT EI,ORG
$ IF 20+30,ERROR
$ PDSV80.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSV80
$ EXECUTE DUMP
$ LIMITS ,50K
$ FILE IM,C3R
$ PRMFL MV,W,S,$UMCU/$MV.DXBJ
$ END.
$ CONVER
$ DATA IN
$ ***** DXBJ - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
    
```

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16. CODE AND KEYWORD UPDATE (DREN)

16.1. INTRODUCTION

DREN: INTRODUCTION

The Code and Keyword Update procedure (DREN) is used to define new codes (table- or site-) or new keywords to replace those defined and used until then in the tables, thesaurus, and entities.

EXECUTION CONDITION

This procedure works from a sequential backup and/or archived journal, and must therefore be preceded by a backup and/or an archiving.

ABNORMAL EXECUTION

See Subchapter 'Abnormal Execution', in Chapter THE BATCH PROCEDURES.

Whatever the reason of the abnormal end, the procedure can be restarted as it is once the problem has been solved.

16.2. INPUT - PROCESSING - RESULTS

USER INPUT

One '*' line (required):

Col.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	DSMS User Code
11	8	pppppppp	Password
Optional			
19	3	ppp	Changes made on the entities which depend on the product code 'ppp'
		'***'	Changes made on the entities which depend on all the product codes
22	2	ss	Changes made on the entities which depend on the subsidiary code 'ss'
		'**'	Changes made on the entities which depend on all the subsidiary codes
24	1	'E' or 'F'	Language code
REQUIRED: AT LEAST ONE OF THESE AREAS SET TO '1'			
25	1	' '	No change concerning the backup
		'1'	Changes concerning the backup
26	1	' '	No change concerning the archiving
		'1'	Changes concerning the archiving

Command lines (500 maxi)

```

+-----+-----+-----+-----+
!Col.! Len.! Value  ! Meaning                                     !
+-----+-----+-----+-----+
!  2 !   3 ! 'Txx' ! table choice (idem TP)                       !
!   !   ! 'Kxx' ! keyword choice (with xx = 'T ' for          !
!   !   !      ! technical keywords, xx = 'E ' for          !
!   !   !      ! native keywords and xx = 'Cl' for         !
!   !   !      ! keywords of change l language)           !
!   !   ! 'S ' ! site choice                               !
!  5 !  13 !      ! old code                                   !
! 18 !  13 !      ! new code                                   !
+-----+-----+-----+-----+

```

NOTES:

- The codes (old and new) must be preceded by 'C', 'E' or 'S' for the TST table, by 'C' or 'E' for the TGR and TTY tables, and by 'F' or 'R' for the TAT table.
- It is not possible to invert two codes (for example, change 'AA' to 'BB', and 'BB' to 'AA'). However, it is possible to rename a code (with an unknown one), and to reuse the old code to transform other codes (for example: 'AA' becomes 'BB' while 'CC' and 'DD' become 'AA'; in this case the command AA/BB must be written before CC/AA and DD/AA).
- The products, subsidiaries or sites new codes must not already exist (in the same subsidiary for a site).
- The two parts of the site code (9 and 3 characters) cannot be modified separately.
- For the TVE table, it is possible to ask for the following updates:
 - . Technical release alone
 - . Technical release and release
 - . Technical release, release and hardware
 - . Technical release, release, hardware and version (with or without language code)
 - . Release alone
 - . Hardware alone
 - . Version number (with or without language code)

Isolated parts should be aligned as if the other parts were there.

Ascending consistency checks are performed. The changes requested on the preceding lines must be taken into account.

- The label associated to the new code can either be that of the old code or that of the new code if it already existed. This choice is made while the file is sorted and is therefore unpredictable.
- For tables depending on a product (TOP, TPH and TVE), the product's code must be clearly specified on the '*' line.

PRINTED OUTPUT

Report on changes concerning the backup and/or archiving

Note on counters:

They count the total number of updates but not the number of modified records (there can be several modifications on the same record).

RESULT

If the modification was performed on the archive (1 in column 26): new version of the Journal's sequential backup.

If the modification was performed on the Database backup (1 in column 25): new version of the Database sequential backup, which should be reorganized via the DREO procedure before being restored.

RETURN CODE

```
+-----+  
! 0  ! OK                                     !  
! 8  ! Error on the user line code or on a parameter !  
! 10 ! Invalid absence of save/archiving flag       !  
! 12 ! I/O error or inconsistent DSMS database     !  
! 16 ! Sort error                                   !  
+-----+
```

16.3. DESCRIPTION OF STEPS

DREN: DESCRIPTION OF STEPS

This procedure calls a single program (PDSMS) which is used as a branching monitor for various programs considered as sub-routines of this monitor. It includes the following steps:

UPDATES: PDSMS

```
.Permanent input files:
-Data file
  PRMFL : $UMCB/$BASE.DA $UMCB/$BASE.AD      DA, AD
-Error messages
  PRMFL : $UMCB/$BASE.DE $UMCB/$BASE.ED      DE, ED
-Cross-references
  PRMFL : $UMCB/$BASE.DX                      DX
-DSMS backup
  PRMFL : $UMCU/$FILU.DSAV(0)                BB
-DSMS archiving
  PRMFL : $UMCU/$FILU.DARC(0)                BJ

.Input file:
-User queries
  File                                         MB

.Work files:
-Update requests
  File                                         W0
-Partial backup (sorted)
  File                                         W1
-Partial backup (not sorted)
  File                                         W2

.Output files:
-Modified backup
  File                                         B3
-Modified archive
  File                                         JB

.Output reports:
-Branching report
  SYSOUT                                       IA
-List of commands on the backup
  SYSOUT                                       IK
-Update report (backup)
  SYSOUT                                       JK
-Merging report (backup)
  SYSOUT                                       IS
-List of commands on archiving
  SYSOUT                                       KK
-Update report (archive)
  SYSOUT                                       LK

.Sort files:
  File                                         S1, S2, S3
```

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

16.4. EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DREN
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * CODE OR KEYWORD UPDATE *
$ NOTE * *
$ NOTE * *
$ NOTE * INPUT SYNTAX *
$ NOTE * *
$ NOTE * .. ONE LINE FOR USER AND DSMS PASSWORD *
$ NOTE * COL 02 - '*' *
$ NOTE * COL 03-10 - DSMS USER CODE *
$ NOTE * COL 11-18 - PASSWORD *
$ NOTE * COL 19-21 - PRODUCT CODE OR '***' *
$ NOTE * COL 22-23 - SUBSIDIARY CODE OR '***' *
$ NOTE * COL 24 - LANGUAGE CODE *
$ NOTE * COL 25 - MODIFICATIONS ON SAVE *
$ NOTE * '1' YES *
$ NOTE * ' ' NO *
$ NOTE * COL 26 - MODIFICATIONS ON ARCHIVE *
$ NOTE * '1' YES *
$ NOTE * ' ' NO *
$ NOTE * .. MODIFICATION(S) COMMAND LINE(S) (500 MAXI) *
$ NOTE * COL 02-04 - TYPE OF MODIFICATION *
$ NOTE * COL 05-17 - OLD CODE *
$ NOTE * COL 18-30 - NEW CODE *
$ NOTE *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ SELECT $UMCU/$JCL.DCO
$ SELECT $UMCU/$JCL.DJO
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DREN
$ FILE BM,C1S,1R
$ PDSTEB.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSTEB
$ EXECUTE DUMP
$ LIMITS ,20K
$ PRMFL BB,Q,R,&DCI
$ FILE B1,,100R
$ FILE B0,B1S,200R
$ FILE S1,,100R
$ FILE S2,,100R
$ FILE S3,,100R
$ PDSMS.
$ PROGRAM RLHS,ON1,DUMP
$ LIMITS ,230K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DA,Q,R,$UMCB/$BASE.DA
$ PRMFL AD,Q,R,$UMCB/$BASE.AD
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL DX,Q,R,$UMCB/$BASE.DX
$ PRMFL BJ,Q,R,&DJI
$ FILE BB,B1
$ FILE B3,B3S,200R
$ PRMFL JB,L,R,&DJO
$ FILE MB,C1R
$ FILE W0,,100R
$ FILE W1,,100R
$ FILE W2,,100R
$ FILE S1,,200R

```

```

$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT IA,ORG
$ SYSOUT IK,ORG
$ SYSOUT IS,ORG
$ SYSOUT JK,ORG
$ SYSOUT KK,ORG
$ SYSOUT LK,ORG
$ PRMFL H*,R/C,R,$UMCS/$HSTAR.PDSMS
$ IF 20+30,ERROR
$ IF /28,ROTDJ
$ PDSTAS.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSTAS
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE B1,,200R
$ FILE BB,B3
$ PRMFL BO,W,R,&DCO
$ FILE S1,,100R
$ FILE S2,,100R
$ FILE S3,,100R
$ ROTDC.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ ROTDJ.
$ IF /29,END
$ FILSYS
CPOS $UMCU/$JCL
MF DJ1,NEWNAM/DJFIL/
MF DJ-1,NEWNAM/DJ1/
MF DJ0,NEWNAM/DJ-1/
MF DJFIL,NEWNAM/DJ0/
$ END.
$ CONVER
$ DATA IN
***** DREN - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
  
```

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INSTALLATION

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17. INSTALLATION

17.1. INTRODUCTION

INTRODUCTION

The installation procedure is broken down into three main phases:

- . Preparation for installation,
- . Installation,
- . On-line and batch tests.

A special installation tape is provided by IBM. The complete installation process is described in this chapter.

Before proceeding to the actual installation, the user must be familiar with the technical characteristics of DSMS which are described in this manual.

PREPARATION FOR INSTALLATION

- . Backup of the installation tape,
- . Allocation of a temporary UMC: \$UMCI (15,000 llinks),
- . Loading of the UMC from the installation tape,
- . Adaptation of JCL to the site's standards.

17.2. INSTALLATION TAPE

INSTALLATION TAPE

The installation tape (6,250 BPI) is the backup obtained by FILSYS from a UMC containing the core of DSMS.

CATALOGS	CONTENTS
DSMD/D250	DSMS System
INST	Installation data (a parameterized source for generating JCLs...)
BOBJ	Catalog of BATCH objects
TOBJ	Catalog of TP objects
FILE	Catalog of system files
SPF	System files: French version
SPE	System files: English version

TAPE LOADING

The \$UMCI UMC must be created, if it has not been done when installing VA Pac, with a minimum size of 15,000 llinks. This UMC will contain, after restoration of the tape, all the elements required for the installation of the product.

The \$UMCU and \$UMCS UMCs must have a reading access to \$UMCI.

The restoration of this UMC is done with the installation tape using the FILSYS utility:

```
JCL:
$   IDENT   XXXXX,YYYYY
$   FILSYS
$   PRIVITY
USERID $UMCI$PASSWORD
RESTORE PACBASE,NEWNAM/$UMCI/,RESET/DEVICE/,RESET/DENIED/
$   TAPE    PR,X1DD,,PACxx,,PACxxx,,DEN62
```

17.3. JCL INSTALLATION

JCL INSTALLATION

This phase is completed within four steps.

1- Adaptation of the JCL to the site's standards

Using a text editor, the following file is modified.

\$UMCI/DSMD/D250/INST/PARM

The substituted parameters cannot exceed 21 characters.

To see the impact of the value of each parameter, see the chapter 'DSMS COMPONENTS', subchapter 'SYSTEM PARAMETERS'.

Four other file parameters account for the specificity of the GCOS8 system according to the release:

\$UMCI/DSMD/D250/INST/P£4

£4 can have the following values: 3000, 4000, 4000.4, 4020 or 4500.

These files do not need to be modified for the parameters. specific to GCOS8 to be taken into account.

2- Modifications incorporating specific GCOS8 parameters:

Execute (CRUN) the procedure:

\$UMCI/DSMD/D250/INST/UTI110.

Five parameters are used:

- UMC? --> \$UMCI
- IDENT? --> \$IDENT (first part)
- DEST? --> \$IDENT (second part)
- RELEASE? --> 3000, 4000, 4000.4, 4020 or 4500
- LANG? --> 'E' or 'F'

(see the following JCL)

The input to this procedure is a stream of parameterized JCL and the output is a stream of JCL ready to be used as well as a JCL for catalog creation.

3- Creation of the UMC(s) required by the system:

\$UMCB, \$UMCS, \$UMCT, \$UMCU.

UMCs initial size

\$UMCB: 7,000 Llinks
\$UMCS: 15,000 Llinks
\$UMCT: 35,000 Llinks
\$UMCU: 15,000 Llinks

The \$UMCU should have write access authorization on the following UMCs:

\$UMCB, \$UMCS, \$UMCT.

The size of \$UMCB depends on the sizes of the following areas: SGSDA, SGDSAD, SGSDC, SGDSDE, SGSDH, SGSDJ, and SGSDX.

The size of \$UMCU depends on the size of the files prefixed with \$MV and the size of the DSMS Database backup file.

Because of authorization levels, it is best to use the \$UMCU UMC to execute the following jobs.

4- Creation of the system catalogs:

This creation is done by executing the procedure

\$UMCI/DSMD/D250/INST/CRCA (with the JRN command).

JCL INSTALLATION PROCEDURE

```
      ##; (UMC?;IDENT?;DEST?;RELEASE?;LANG.F or E?)
$NORM,J
020$      IDENT      f2,f3
020$      LOWLOAD
040$      OPTION     CBL74,RELMEM
050$      SELECT     f1/DSMD/D250/BOBJ/UTII10
060$      EXECUTE    DUMP
070$      LIMITS     50,20K
080$      PRMFL      MR,R,S,f1/DSMD/D250/SPE5/STREAM
090$      PRMFL      FL,W,S,f1/DSMD/D250/INST/JCL
100$      PRMFL      CC,W,S,f1/DSMD/D250/INST/CRCA
110$      PRMFL      CA,R,S,E1/DSMD/D250/INST/PARM
120$      PRMFL      CB,R,S,f1/DSMD/D250/INST/Pf4
120$      FILE       FI,NULL
140$      ENDJOB
COUT *NULL
JRN
```

17.4. INSTALLATION PROCESS

INSTALLATION PROCESS

DSMS INSTALLATION WITHOUT INTEGRATION

Once the values of the system parameters have been set via the 'UTII10' procedure, the necessary UMCs created and the catalogues created via the 'CRCA' procedure, the distribution of DSMS procedures in their operations environment is achieved by submitting (via CRUN ou DRUN), the following procedure:

```
' $UMCI / DSMD / D250 / INST / JCL ; $UMCU / CR '
```

If a problem occurs, consult the last lines of the '\$UMCU/CR' file to identify its cause.

Once the procedures are distributed, DSMS installation is perform in thirteen steps:

- 1) 'FCRE' Creation of system files,
- 2) 'COBA' Installation of BATCH files and programs,
- 3) 'COTP' Installation of on-line files and programs,
- 4) 'RAND' Formatting of the sub-programs library,
- 5) 'DMCL' Adaptation of the DMCL and translation,
- 6) 'FCDS' Creation of DSMS files,
- 7) 'PDSB' Link of the queries print procedure programs,
- 8) 'LUPT' Link of the batch update procedure programs,
- 9) 'LEXT' Link of the DSMS Database extraction procedure programs,
- 10) 'LREN' Link of the Database code update procedure programs,
- 11) 'DCDE' Restoration of the error message file,
- 12) 'DRS1' Restoration of the test Database,

13-1) If you choose to install DSMS on DMIV-TP:

- a) 'FIT4' Creation of the DMIV-TP system files,
- b) 'ILI4' Initialization of the on-line library,
- c) 'LNKn' Link of TPRs,
- d) 'SYSG' Compilation of SYSGEN,
- e) 'PTDS' Start-up of the on-line DSMS.

13-2) If you choose to install DSMS on TP8:

- a) 'FIT8' Creation of the TP8 system files,
- b) 'ILI8' Initialization of the on-line library,
- c) 'CRDY' Compilation of READY-TPR DSRYSG,
- d) 'SLUn' Link of DSMS TPRS,
- e) 'MFT8' Adaptation of DSMS files to TP8,
- f) 'INWD' Initialization of the workstation and definition of the node,
- g) 'DFWD' Definition of the DSMS workstation,
- h) 'DFTQ' Definition of the TQ workstation,
- i) 'INTQ' Start-up of the communication workstation,
- j) 'ENWS' Start-up of the DSMS workstation.

PRINCIPLE FOR THE INSTALLATION OF DSMS IN VA PAC

Once the values of the system parameters have been set via the 'UTI110' procedure, the necessary UMCs created and the catalogues created via the 'CRCA' procedure, the distribution of the DSMS procedures in their operations environment. This is done by submitting (via CRUN or DRUN) the procedure

```
'$UMCI/DSMD/D250/INST/JCL;$UMCU/CR'
```

If a problem occurs, consult the last lines of the '\$UMCU/CR' file to identify its cause.

Once the procedures have been distributed, the installation of DSMS is achieved within fourteen steps:

The character following the procedure codes means:

'D' to submit from \$UMCU/\$JCL of DSMS

'P' to submit from \$UMCU/\$JCL of VA Pac

- 1) 'FCRE(D)' Creation of the system files,
- 2) 'COBA(D)' Installation of BATCH files and programs,
- 3) 'COTP(D)' Installation of ON-LINE files and programs,
- 4) 'RAND(D)' Formatting the DSMS sub-programs library,
- 5) 'DMCL(P)' Adaptation of DMCL and validation of VA Pac sub-schemas,
- 6) 'FCDS(D)' Creation of DSMS files,
- 7) 'PDSB(D)' Link of the queries print procedure programs,
- 8) 'LUPT(D)' Link of the BATCH update procedure programs,
- 9) 'LEXT(D)' Link of the DSMS Database extraction procedure programs,
- 10) 'LREN(D)' Link of the DSMS Database code update procedure programs,
- 11) 'PACn(P)' Link of the GPRT and VA Pac PQCA programs,
- 12) 'DCDE(D)' Restoration of the DSMS error message file,
- 13) 'DRS1(D)' Restoration of the DSMS test Database,

14-1) If you choose to install DSMS on DMIV-TP:

- a) 'LNKn(D)' Link of the DSMS TPRs,
- b) 'SYSG(P)' Compilation of SYSGEN VA Pac,
- c) 'PTDS(P)' Start-up of ON-LINE VA Pac.

14-2) If you choose to install DSMS on TP8:

- a) 'SLUn(D)' Link of the DSMS TPRs,
- b) 'MFT8(D)' Adaptation of the DSMS files to TP8,
- c) 'INTQ(P)' Start-up of the communication workstation,
- d) 'ENWS(P)' Start-up of the VA Pac workstation.

17.5. BREAKDOWN OF THE INSTALLATION PROCEDURE

CODING THE INSTALLATION PROCEDURES HEADING

In the following paragraphs, the description of a procedure is preceded by a heading which indicates:

- The procedure's rank in the steps of an installation without integration
- The procedure's rank in the steps of an installation with integration in VA Pac
- The procedure's title
- The procedure's code.

The ranks are separated by the '/' character. Their values correspond to the steps number defined in Chapter INSTALLATION PROCESS.

A rank initialized with the '-' character means that the procedure is not used for the given installation type.

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17.5.1. CREATION OF SYSTEM FILES

INSTALLATION STEPS

1/1 CREATION OF SYSTEM FILES

System files are created by executing (via the JRN command) procedure
'\$UMCU/\$JCL.FCRE'

The size of the backup files must be adapted to the volume
of processed data.

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
 CREATION OF SYSTEM FILES

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```

$ IDENT $IDENT,$DEST.FCRE
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * CREATION OF FILES *
$ NOTE * *
$ NOTE *****
$ NOTE *** H* ***
$ FILSYS
USERID $UMCS$PWS
FC $UMCS/$HSTAR.PDSB,WRITE/$UMCU/,
  LLINKS/1700,2000/,MODE/RAND/
FC $UMCS/$HSTAR.PDSEX,WRITE/$UMCU/,
  LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$HSTAR.PDSMS,WRITE/$UMCU/,
  LLINKS/1800,2500/,MODE/RAND/
FC $UMCS/$HSTAR.PDSUP,WRITE/$UMCU/,
  LLINKS/1800,2500/,MODE/RAND/
$ NOTE *** LIBRARY OF SUB-PROGRAMS ***
$ FILSYS
USERID $UMCS$PWS
FC $UMCS/$FILS.DUMMY,READ,LLINKS/1,1/,MODE/RAND/
FC $UMCS/$FILS.OBJLIB,WRITE/$UMCU/,
  LLINKS/500,900/,MODE/RAND/
$ GOTO BDE$BDE
$ BDEN.
$ NOTE *** BACKUP FILES ON DISK ***
$ FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.DSAV-1,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DSAV0,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DSAV1,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DARC-1,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DARC0,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DARC1,READ,LLINKS/2000,40000/,MODE/RAND/
FC $UMCU/$FILU.DARCBQ,READ,LLINKS/2000,40000/,MODE/RAND/
$ GOTO FBDE
$ BDEO
$ NOTE *** BACKUP FILES ON TAPE ***
$ FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.DSAV-1,DEVICE/TAPE9,DSM01/
FC $UMCU/$FILU.DSAV0,DEVICE/TAPE9,DSM02/
FC $UMCU/$FILU.DSAV1,DEVICE/TAPE9,DSM03/
FC $UMCU/$FILU.DARC-1,DEVICE/TAPE9,DSM04/
FC $UMCU/$FILU.DARC0,DEVICE/TAPE9,DSM05/
FC $UMCU/$FILU.DARC1,DEVICE/TAPE9,DSM06/
FC $UMCU/$FILU.DARCBQ,DEVICE/TAPE9,DSM07/
$ FBDE.
$ NOTE *** EXTRACTION OUTPUT FILES ***
$ FILSYS
USERID $UMCU$PWU
FC $UMCU/$MV.DEXH,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.DEXP,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.DEXT,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.DXBJ,READ,LLINKS/100,2000/,MODE/SEQ/
$ NOTE *** INITIALIZATION OF BACKUP FILES ***
$ UTL8
$ PRMFL I1,R,R,$UMCI/DSMD/D250/FILE/DUMMY
$ PRMFL O1,W,R,$UMCU/$FILU.DARC0
$ PRMFL O2,W,R,$UMCS/$FILS.DUMMY
U8FD O1,UFF,CISZ/10496,FLR/180.
READ I1.
WRITE O1.
WRITE O2.
$ CONVER
$ DATA IN
***** FCRE - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ENDJOB

```

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17.5.2. INSTALLATION OF BATCH FILES AND PROGRAMS

2/2 INSTALLATION OF BATCH FILES AND PROGRAMS

Files and programs are installed by executing (via the CRUN or DRUN commands) the procedure

```
'$UMCU/$JCL.COBA;$UMCU/CBR'
```

If you encounter a problem, consult the last lines of the '\$UMCU/CBR' file to identify its origin.

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\$UMCI/DSMD/D250/BOBJ/DSCHOI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUAM	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUEV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUMQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCURQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUAA	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUK1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUP1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ5	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ7	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ8	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTW	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTX	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTY	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTZ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT5	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT7	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT8	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT9	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PACABE	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDCHOI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSA10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSBE	\$UMCS/\$OBJBT. PDSB
\$UMCI/DSMD/D250/BOBJ/PDSBAS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCAM	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCEV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCMQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCRQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSERQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSEXE	\$UMCS/\$OBJBT. PDSEX
\$UMCI/DSMD/D250/BOBJ/PDSE90	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSINI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSJMS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSLVB	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSMSE	\$UMCS/\$OBJBT. PDSMS
\$UMCI/DSMD/D250/BOBJ/PDSRCT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSRFU	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSRMS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR15	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR20	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR30	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR40	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR5J	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8B	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8C	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8D	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8Q	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8R	\$UMCS/\$OBJBT.

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\$UMCI/DSMD/D250/BOBJ/PDSR8X	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSTAS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSTEB	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSUP0	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV25	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV80	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXCT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXST	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXTH	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXTR	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS0RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS1RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS2RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS3RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS300	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS320	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS381	\$UMCS/\$OBJBT. PDS380
\$UMCI/DSMD/D250/BOBJ/PDS400	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS450	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS500	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS600	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS610	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS700	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PTU001	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABBA	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABLO	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABTP	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/ZAR300	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/ZAR980	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/FILE/AE0	\$UMCS/\$FILS.
\$UMCI/DSMD/D250/FILE/TEST	\$UMCS/\$FILS.
\$UMCI/DSMD/D250/FILE/CSTPAC	\$UMCS/\$SOURCE.CSTDMS
\$UMCI/DSMD/D250/FILE/DSCUAM	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUEV	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUMQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCURQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUSI	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCAM	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCEV	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCMQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCRQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCSI	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DMCL	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/1STAR	\$UMCS/\$SCHEMA.
\$UMCI/DSMD/D250/FILE/SSSG	\$UMCS/\$SCHEMA.
\$UMCI/DSMD/D250/FILE/CSTARSG	\$UMCS/\$SCHEMA.
\$UMCI/DSMD/D250/FILE/MBDARC	\$UMCU/\$MB.DARC
\$UMCI/DSMD/D250/FILE/MBDEXT	\$UMCU/\$MB.DEXT
\$UMCI/DSMD/D250/FILE/MBDINI	\$UMCU/\$MB.DINI
\$UMCI/DSMD/D250/FILE/MBDREO	\$UMCU/\$MB.DREO
\$UMCI/DSMD/D250/FILE/MBDR8X	\$UMCU/\$MB.DR8X
\$UMCI/DSMD/D250/FILE/MBDR80	\$UMCU/\$MB.DR80
\$UMCI/DSMD/D250/FILE/MBDSAV	\$UMCU/\$MB.DSAV
\$UMCI/DSMD/D250/SP\$LANG/MBDEXH	\$UMCU/\$MB.DEXH
\$UMCI/DSMD/D250/SP\$LANG/MBDEXP	\$UMCU/\$MB.DEXP
\$UMCI/DSMD/D250/SP\$LANG/MBDPRT	\$UMCU/\$MB.DPRT
\$UMCI/DSMD/D250/SP\$LANG/MBDREN	\$UMCU/\$MB.DREN
\$UMCI/DSMD/D250/SP\$LANG/MBDRST	\$UMCU/\$MB.DRST
\$UMCI/DSMD/D250/SP\$LANG/MBDUPT	\$UMCU/\$MB.DUPT
\$UMCI/DSMD/D250/SP\$LANG/MBDXBJ	\$UMCU/\$MB.DXBJ

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17.5.3. INSTALLATION OF ON-LINE FILES AND PROGRAMS

3/3 INSTALLATION OF ON-LINE FILES AND PROGRAMS

To perform the installation of on-line files and programs, execute (via the CRUN or DRUN commands) the procedure

```
'$UMCU/$JCL.COTP;$UMCU/CTR'
```

If a problem occurs, consult the last lines of the '\$UMCU/CTR' file to identify its cause.

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\$UMCI/DSMD/D250/TOBJ/DSRYSG	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS0AA0	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00AA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00AB	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00BA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00B1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00B2	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00B3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00B4	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00B5	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00EA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E2	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E4	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E5	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00E6	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00FA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00FB	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00HE	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00JO	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00KA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00K1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00K2	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00K3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00LE	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00LS	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00MA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00PA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00P1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00QA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00QB	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00QC	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q2	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q4	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q5	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q6	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q7	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q8	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00Q9	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00SA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00SI	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S4	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S5	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S6	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S7	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S8	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00S9	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TA	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TT	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TU	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TV	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TW	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TX	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TY	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00TZ	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T1	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T2	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T3	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T4	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T5	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T6	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T7	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T8	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00T9	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/TOBJ/DS00UD	\$UMCS/\$OBJTTP.
\$UMCI/DSMD/D250/FILE/DSRYSG	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DS0AA0	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/O-CTE	\$UMCT/\$FILT.

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\$UMCI/DSMD/D250/FILE/O-US

\$UMCT/\$FILT.O-USEND

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17.5.4. SUB-PROGRAM LIBRARY FORMATTING

4/4 FORMATTING THE DSMS SUB-PROGRAMS LIBRARY

All sub-programs are in one specific library which is used for the link of TPRs and during execution of any procedure.

The library is formatted by executing (via the JRN command) the procedure
'\$UMCU/\$JCL.RAND'

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```

$      IDENT  $IDENT,$DEST.RAND
$      NOTE  *****
$      NOTE  * DSMS
$      NOTE  * ====
$      NOTE  *
$      NOTE  *          FORMAT OF THE SUB-PROGRAMS LIBRARY
$      NOTE  *
$      NOTE  *****
$      PROGRAM RANLIB
$      PRMFL  A4,W,R,$UMCS/$FILS.OBJLIB
$      DATA  R*,COPY
$      SELECTD $UMCS/$OBJBT.DSCHOI
$      SELECTD $UMCS/$OBJBT.DSCUAM
$      SELECTD $UMCS/$OBJBT.DSCUEV
$      SELECTD $UMCS/$OBJBT.DSCUMQ
$      SELECTD $UMCS/$OBJBT.DSCURQ
$      SELECTD $UMCS/$OBJBT.DSCUSI
$      SELECTD $UMCS/$OBJBT.DSUAA
$      SELECTD $UMCS/$OBJBT.PACABE
$      SELECTD $UMCS/$OBJBT.PDCHOI
$      SELECTD $UMCS/$OBJBT.PDSCAM
$      SELECTD $UMCS/$OBJBT.PDSCEV
$      SELECTD $UMCS/$OBJBT.PDSCRQ
$      SELECTD $UMCS/$OBJBT.PDSCMQ
$      SELECTD $UMCS/$OBJBT.PDSCSI
$      SELECTD $UMCS/$OBJBT.PDSERQ
$      SELECTD $UMCS/$OBJBT.SIABBA
$      SELECTD $UMCS/$OBJBT.SIABLO
$      SELECTD $UMCS/$OBJBT.SIABTP
$      SELECTD $UMCS/$OBJBT.ZAR300
$      SELECTD $UMCS/$OBJBT.ZAR980
$      ENDCOPY
$      ENDJOB

```


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17.5.5. DMCL COMPILATION

5/5 ADAPTATION OF THE DMCL AND TRANSLATION

For an installation with integration in VA Pac, the DMCL source to modify in order to adapt the 'ALLOCATES' is located in the DSMS environment file:

```
' $UMCS/$SOURCE.DMCL '
```

The schema translation and the sub-schemas validation are done by executing (via the JRN command), in the same environment, the procedure

```
' $UMCU/$JCL.DMCL '
```

For an installation with integration in VA Pac, the modification of the DMCL is done in the VA Pac environment file:

```
' $UMCS/$SOURCE.DMCL '
```

The schema translation and the sub-schemas validation are done by executing (via the JRN command), in the same environment, the procedure

```
' $UMCU/$JCL.DMCL '
```

The DMCL sources and the VA Pac environments translation procedure can be consulted in the Installation Manual of the related product.

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```

$      IDENT  $IDENT,$DEST.DMCL
$      NOTE   *****
$      NOTE   * DSMS
$      NOTE   * ====
$      NOTE   *
$      NOTE   *          DMCL COMPILATION AND SUB-SCHEMA VALIDATION
$      NOTE   *
$      NOTE   *****
$      IDS2
$      LIMITS ,150K
$      PRMFL  1*,W,R,$UMCS/$SCHEMA.1STAR
DBACS TRANS SCHEMA DMCL MODE ALTER END
$$SELECT($UMCS/$SOURCE.DMCL)
$      IDS2
$      LIMITS ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL  1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL  6*,W,R,$UMCS/$SCHEMA.SSSG
$      PRMFL  C*,W,S,$UMCS/$SCHEMA.CSTARSG
$      ENDJOB

```

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17.5.6. CREATION OF DATABASE FILES

6/6 CREATION OF DSMS FILES

The report of the DMCL procedure (acty-01, rc 02) gives the size of each area, so that it can be indicated in the source of the FCDS procedure before it is executed.

After the source has been modified, creation is performed by executing the procedure

```
'$UMCU/$JCL.FCDS'
```

It is advised, when installing with integration in VA Pac, to remove purges and DSMS areas creations from the VA Pac environment FCPA procedure. This will make sure the DSMS file sizes are not overwritten when this procedure is executed.

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```

$ IDENT $IDENT,$DEST.FCDS
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * CREATION OF THE DATABASE FILES *
$ NOTE * *
$ NOTE *****
$ FILSYS
USERID $UMCB$PWB
IGNORE ERRS
FP $UMCB/$BASE.DE
FP $UMCB/$BASE.ED
FP $UMCB/$BASE.DH
FP $UMCB/$BASE.DA
FP $UMCB/$BASE.AD
FP $UMCB/$BASE.DC
FP $UMCB/$BASE.CD
FP $UMCB/$BASE.DX
FP $UMCB/$BASE.DJ
FC $UMCB/$BASE.DE,WRITE/$UMCU/,LLINKS/3204/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.ED,WRITE/$UMCU/,LLINKS/0300/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.DH,WRITE/$UMCU/,LLINKS/0100/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.DC,WRITE/$UMCU/,LLINKS/0868/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.CD,WRITE/$UMCU/,LLINKS/0090/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.DA,WRITE/$UMCU/,LLINKS/0567/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.AD,WRITE/$UMCU/,LLINKS/0781/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.DX,WRITE/$UMCU/,LLINKS/0180/,MODE/RAND/,
ACCESS/RWW/
FC $UMCB/$BASE.DJ,WRITE/$UMCU/,LLINKS/0292/,MODE/RAND/,
ACCESS/RWW/
$ ENDJOB

```

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17.5.7. LINK-EDIT OF DPRT PROGRAMS

7/7 LINK OF 'DPRT' PRINT REQUEST PROGRAMS

Print request programs are linked by executing, (via the JRN command), the procedure

```
' $UMCU/$JCL.PDSB '
```

This procedure must be executed at each re-installation of DSMS, and after each DMCL modification.

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
 LINK-EDIT OF DPRT PROGRAMS

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```

$ IDENT $IDENT,$DEST.PDSB
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF PRINT REQUEST PROGRAMS *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PDSBLK.
$ LOWLOAD
$ USE .DCKPF,DLPUT
$ OPTION CBL74,NOGO,RELMEM,LDLIB
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSB
$ LINK .PDSA10
$ ENTRY PDSA10
$ SELECT $UMCS/$OBJBT.PDSA10
$ LINK .PDS0RQ,.PDSA10
$ ENTRY PDS0RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS0RQ
$ LINK .PDS1RQ,.PDS0RQ
$ ENTRY PDS1RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS1RQ
$ LINK .PDS2RQ,.PDS1RQ
$ ENTRY PDS2RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS2RQ
$ LINK .PDS3RQ,.PDS2RQ
$ ENTRY PDS3RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS3RQ
$ LINK .PDSE90,.PDS3RQ
$ ENTRY PDSE90
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDSE90
$ EXECUTE
$ LIMITS ,160K
$ PRMFL H*,W,R,$UMCS/$HSTAR.PDSB
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ ENDJOB

```

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17.5.8. LINK-EDIT OF DUPT PROGRAMS

8/8 LINK OF 'DUPT' BATCH UPDATE PROGRAMS

Batch update programs are linked by executing the procedure
'\$UMCU/\$JCL.LUPT' (with the JRN command).

This procedure must be executed at
each re-installation of DSMS, and after each DMCL
modification.

INSTALLATION
 BREAKDOWN OF THE INSTALLATION PROCEDURE
 LINK-EDIT OF DUPT PROGRAMS

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```

$ IDENT $IDENT,$DEST.LUPT
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF DATABASE BATCH UPDATE PROGRAMS *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PDSUP0.
$ LOWLOAD
$ USE .DCKPF,DLPUT
$ OPTION CBL74,NOGO,RELMEM,LDLIB
$ LIBRARY LA,LB
$ USE .SMA/1/, .SMB/13000/, .SMC/1/
$ SELECT $UMCS/$OBJBT.PDSUP0
$ LINK .DSUAA
$ ENTRY DSUAA
$ SELECT $UMCS/$OBJBT.DSUAA
$ LINK .DSUB1, .DSUAA
$ ENTRY DSUB1
$ SELECT $UMCS/$OBJBT.DSUB1
$ LINK .DSUB2, .DSUB1
$ ENTRY DSUB2
$ SELECT $UMCS/$OBJBT.DSUB2
$ LINK .DSUB3, .DSUB2
$ ENTRY DSUB3
$ SELECT $UMCS/$OBJBT.DSUB3
$ LINK .DSUB4, .DSUB3
$ ENTRY DSUB4
$ SELECT $UMCS/$OBJBT.DSUB4
$ LINK .DSUE1, .DSUB4
$ ENTRY DSUE1
$ SELECT $UMCS/$OBJBT.DSUE1
$ LINK .DSUE2, .DSUE1
$ ENTRY DSUE2
$ SELECT $UMCS/$OBJBT.DSUE2
$ LINK .DSUE3, .DSUE2
$ ENTRY DSUE3
$ SELECT $UMCS/$OBJBT.DSUE3
$ LINK .DSUK1, .DSUE3
$ ENTRY DSUK1
$ SELECT $UMCS/$OBJBT.DSUK1
$ LINK .DSUP1, .DSUK1
$ ENTRY DSUP1
$ SELECT $UMCS/$OBJBT.DSUP1
$ LINK .DSUQ1, .DSUP1
$ ENTRY DSUQ1
$ SELECT $UMCS/$OBJBT.DSUQ1
$ LINK .DSUQ2, .DSUQ1
$ ENTRY DSUQ2
$ SELECT $UMCS/$OBJBT.DSUQ2
$ LINK .DSUQ5, .DSUQ2
$ ENTRY DSUQ5
$ SELECT $UMCS/$OBJBT.DSUQ5
$ LINK .DSUQ6, .DSUQ5
$ ENTRY DSUQ6
$ SELECT $UMCS/$OBJBT.DSUQ6
$ LINK .DSUQ7, .DSUQ6
$ ENTRY DSUQ7
$ SELECT $UMCS/$OBJBT.DSUQ7
$ LINK .DSUQ8, .DSUQ7
$ ENTRY DSUQ8
$ SELECT $UMCS/$OBJBT.DSUQ8
$ LINK .DSUSI, .DSUQ8
$ ENTRY DSUSI
$ SELECT $UMCS/$OBJBT.DSUSI
$ LINK .DSUS1, .DSUSI
$ ENTRY DSUS1
$ SELECT $UMCS/$OBJBT.DSUS1
$ LINK .DSUS3, .DSUS1
$ ENTRY DSUS3
$ SELECT $UMCS/$OBJBT.DSUS3

```


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 BREAKDOWN OF THE INSTALLATION PROCEDURE
 LINK-EDIT OF DUPT PROGRAMS

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```

$ LINK .DSUS4, .DSUS3
$ ENTRY DSUS4
$ SELECT $UMCS/$OBJBT.DSUS4
$ LINK .DSUS6, .DSUS4
$ ENTRY DSUS6
$ SELECT $UMCS/$OBJBT.DSUS6
$ LINK .DSUTT, .DSUS6
$ ENTRY DSUTT
$ SELECT $UMCS/$OBJBT.DSUTT
$ LINK .DSUTV, .DSUTT
$ ENTRY DSUTV
$ SELECT $UMCS/$OBJBT.DSUTV
$ LINK .DSUTW, .DSUTV
$ ENTRY DSUTW
$ SELECT $UMCS/$OBJBT.DSUTW
$ LINK .DSUTX, .DSUTW
$ ENTRY DSUTX
$ SELECT $UMCS/$OBJBT.DSUTX
$ LINK .DSUTY, .DSUTX
$ ENTRY DSUTY
$ SELECT $UMCS/$OBJBT.DSUTY
$ LINK .DSUTZ, .DSUTY
$ ENTRY DSUTZ
$ SELECT $UMCS/$OBJBT.DSUTZ
$ LINK .DSUT1, .DSUTZ
$ ENTRY DSUT1
$ SELECT $UMCS/$OBJBT.DSUT1
$ LINK .DSUT2, .DSUT1
$ ENTRY DSUT2
$ SELECT $UMCS/$OBJBT.DSUT2
$ LINK .DSUT3, .DSUT2
$ ENTRY DSUT3
$ SELECT $UMCS/$OBJBT.DSUT3
$ LINK .DSUT4, .DSUT3
$ ENTRY DSUT4
$ SELECT $UMCS/$OBJBT.DSUT4
$ LINK .DSUT5, .DSUT4
$ ENTRY DSUT5
$ SELECT $UMCS/$OBJBT.DSUT5
$ LINK .DSUT6, .DSUT5
$ ENTRY DSUT6
$ SELECT $UMCS/$OBJBT.DSUT6
$ LINK .DSUT7, .DSUT6
$ ENTRY DSUT7
$ SELECT $UMCS/$OBJBT.DSUT7
$ LINK .DSUT8, .DSUT7
$ ENTRY DSUT8
$ SELECT $UMCS/$OBJBT.DSUT8
$ LINK .DSUT9, .DSUT8
$ ENTRY DSUT9
$ SELECT $UMCS/$OBJBT.DSUT9
$ EXECUTE
$ LIMITS ,220K
$ PRMFL H*,W,R,$UMCS/$HSTAR.PDSUP
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ ENDJOB

```

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17.5.9. LINK-EDIT OF DEXT PROGRAMS

9/9 LINK OF 'DEXT' DSMS EXTRACTION PROGRAMS

DSMS extraction programs are linked by executing, (via the JRN command), the procedure

```
' $UMCU/$JCL.LEXT '
```

This procedure must be executed at each re-installation of DSMS, and after each DMCL modification.

INSTALLATION
 BREAKDOWN OF THE INSTALLATION PROCEDURE
 LINK-EDIT OF DEXT PROGRAMS

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```

$ IDENT $IDENT,$DEST.LEXT
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF DATABASE EXTRACTION PROGRAMS *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PDSELK.
$ LOWLOAD
$ USE .DCKPF,DLPUT
$ OPTION CBL74,NOGO,RELMEM,LDLIB
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSEX
$ LINK .PDSXCT
$ ENTRY PDSXCT
$ SELECT $UMCS/$OBJBT.PDSXCT
$ LINK .PDS0RQ,.PDSXCT
$ ENTRY PDS0RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS0RQ
$ LINK .PDS1RQ,.PDS0RQ
$ ENTRY PDS1RQ
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDS1RQ
$ LINK .PDSXST,.PDS1RQ
$ ENTRY PDSXST
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDSXST
$ LINK .PDSXTR,.PDSXST
$ ENTRY PDSXTR
$ SELECT $UMCS/$OBJBT.PDSXTR
$ EXECUTE
$ LIMITS ,160K
$ PRMFL H*,W,R,$UMCS/$HSTAR.PDSEX
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ ENDJOB

```

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17.5.10. LINK-EDIT OF DREN PROGRAMS

10/10 LINK OF 'DREN' DSMS CODE UPDATE PROGRAMS

DSMS code update programs are linked by executing, (via the JRN command), the procedure

```
'$UMCU/$JCL.LREN'
```

This procedure must be executed at each re-installation of DSMS, and after each DMCL modification.

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
 LINK-EDIT OF DREN PROGRAMS

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```

$ IDENT $IDENT,$DEST.LREN
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF CHANGE CODES PROGRAMS *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PDSMSLK.
$ LOWLOAD
$ USE .DCKPF,DLPUT
$ OPTION CBL74,NOGO,RELMEM,LDLIB
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSMS
$ LINK .PDSRCT
$ ENTRY PDSRCT
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDSRCT
$ LINK .PDSRMS,.PDSRCT
$ ENTRY PDSRMS
$ USE .SMA/1/,.SMB/13000/,.SMC/1/
$ SELECT $UMCS/$OBJBT.PDSRMS
$ LINK .PDSRFU,.PDSRMS
$ ENTRY PDSRFU
$ SELECT $UMCS/$OBJBT.PDSRFU
$ LINK .PDSJMS,.PDSRFU
$ ENTRY PDSJMS
$ SELECT $UMCS/$OBJBT.PDSJMS
$ EXECUTE
$ LIMITS ,230K
$ PRMFL H*,W,R,$UMCS/$HSTAR.PDSMS
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ ENDJOB

```

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17.5.11. LINK-EDIT OF VA PAC GPRT AND PQCA PROGRAMS

-/11 LINK OF THE VA PAC PROGRAMS

The VA Pac 'PACA', 'PACB', 'PACC', 'PACD' and 'PACQ' procedures are used to build the executable programs of the 'GPRT' and 'PQCA' procedures. It is necessary to update these programs for an installation with integration in VA Pac, in order to take into account the dates of sub-schemas modified by the DMCL procedure previously executed.

To perform this operation, execute the following files in the VA Pac environment:

```
' $UMCU/$JCL.PACA '  
' $UMCU/$JCL.PACB '  
' $UMCU/$JCL.PACC '  
' $UMCU/$JCL.PACD '  
' $UMCU/$JCL.PACQ '
```

The sources of these procedures are defined in the VA Pac Installation Manual.

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17.5.12. ERROR MESSAGE FILE RESTORATION

11/12 LOADING OF THE DSMS ERROR MESSAGE FILE

This procedure reloads the error message sequential file in the SGDSDE area.

The error message file is loaded by the executing, (via the JRN command), the procedure

```
' $UMCU/$JCL.DCDE '
```

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
 ERROR MESSAGE FILE RESTORATION

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```

$ IDENT $IDENT,$DEST.DCDE
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LOADING THE ERROR MESSAGE FILE *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PDSV10.
$ OPTION CBL74
$ USE .DIRTV,.DIBLD
$ NLOAD .DIDYN
$ OPTION LDLIB
$ EQUATE .DIRTV/.DIDYN/,.DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDSV10
$ EXECUTE DUMP
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL EE,Q,R,$UMCS/$FILS.AE0
$ PRMFL DE,L,R,$UMCB/$BASE.DE
$ PRMFL ED,L,R,$UMCB/$BASE.ED
$ SYSOUT EI,ORG
$ IF 20,ERROR
$ END.
$ CONVER
$ DATA IN
***** DCDE - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB

```


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17.5.13. TEST DATABASE RESTORATION

12/13 RESTORATION OF THE TEST DATABASE

This procedure restores a sequential file on the SGSDSA, SGDSAD, SGSDSC, SGSDSX areas. This Database allows product tests to be performed after the installation.

The restoration is done by executing the procedure:

```
'$UMCU/$JCL.DRS1'
```

The test sequential file is located in:

```
'$UMCS/$FILS.TEST'
```

INSTALLATION
 BREAKDOWN OF THE INSTALLATION PROCEDURE
 TEST DATABASE RESTORATION

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```

$ IDENT $IDENT,$DEST.DRS1
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * TEST DATABASE RELOADING *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.PARD
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ DATA MB
$ ASCII
RE
$ ENX
$ FILE BM,C1S,1R
$ Q2UTIL.
$ PROGRAM Q2UTIL
$ LIMITS ,45K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL DJ,L,R,$UMCB/$BASE.DJ
$ PRMFL DH,L,R,$UMCB/$BASE.DH
$ PRMFL DA,L,R,$UMCB/$BASE.DA
$ PRMFL AD,L,R,$UMCB/$BASE.AD
$ PRMFL DX,L,R,$UMCB/$BASE.DX
$ DATA I*
IDS2 INITIAL FC/DJ/
IDS2 INITIAL FC/DH/
IDS2 INITIAL FC/DA/
IDS2 INITIAL FC/AD/
IDS2 INITIAL FC/DX/
$ PDS400.
$ OPTION CBL74
$ USE .DIBLD
$ OPTION LDLIB
$ EQUATE .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS400
$ EXECUTE DUMP
$ LIMITS ,70K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PRMFL DA,L,R,$UMCB/$BASE.DA
$ PRMFL AD,L,R,$UMCB/$BASE.AD
$ PRMFL DC,L,R,$UMCB/$BASE.DC
$ PRMFL CD,L,R,$UMCB/$BASE.CD
$ PRMFL DJ,L,R,$UMCB/$BASE.DJ
$ PRMFL DX,L,R,$UMCB/$BASE.DX
$ PRMFL DE,Q,R,$UMCB/$BASE.DE
$ PRMFL ED,Q,R,$UMCB/$BASE.ED
$ PRMFL BB,Q,R,$UMCS/$FILS.TEST
$ FILE MB,C1R
$ FILE MS,R1S,1R
$ DATA .U
FILE FC/DC/,LOVI/2/,GOVI/500/
$ SYSOUT RU,ORG
$ SYSOUT EI,ORG
$ PDS450.
$ OPTION CBL74
$ USE .DIBLD
$ OPTION LDLIB
$ EQUATE .DIBLD/.DBPKL/
$ LIBRARY LA,LB
$ SELECT $UMCS/$OBJBT.PDS450
$ EXECUTE DUMP
$ LIMITS ,60K
$ PRMFL 1*,R/C,R,&(SCHEM)1STAR
$ PRMFL LB,R/C,S,&(SCHEM)CSTARSG
$ PRMFL LA,R/C,R,$UMCS/$FILS.OBJLIB

```

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BREAKDOWN OF THE INSTALLATION PROCEDURE
TEST DATABASE RESTORATION

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```
$      PRMFL  DA,L,R,$UMCB/$BASE.DA
$      PRMFL  AD,L,R,$UMCB/$BASE.AD
$      PRMFL  DC,L,R,$UMCB/$BASE.DC
$      PRMFL  CD,L,R,$UMCB/$BASE.CD
$      PRMFL  DX,L,R,$UMCB/$BASE.DX
$      PRMFL  DE,L,R,$UMCB/$BASE.DE
$      PRMFL  ED,L,R,$UMCB/$BASE.ED
$      FILE   MS,R1R
$      SYSOUT RU,ORG
$      SYSOUT EI,ORG
$      IF     20,ERROR
$ END.
$      CONVER
$      DATA  IN
***** DRS1 - NORMAL END OF RUN *****
$      SYSOUT OT,ORG
$      OUTPUT MEDIA/03
$ ERROR.
$      ENDJOB
```

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17.5.14. TP8 ENVIRONMENT GENERATION

13/- DSMS TP8 ENVIRONMENT GENERATION

Only the installation of an independent DSMS TP8 is described in this section.

These steps must be executed by the TP8 administrator.

The JCL described below is stored under the \$UMCU/\$JCL catalog.

For the TP8 environment to operate, it is necessary to:

- Create the TP8 system files.

This step is executed through the FIT8 procedure.

- Initialize the TPR library.

This step is executed through the ILI8 procedure.

- Load the READY TPR.

This step is executed through the CRDY procedure.

- Link-edit DSMS TPRs and load them in a library.

This step is executed through the SLU1, SLU2, SLU3 and SLU4 procedures.

- Modify the FMS options on the database data files for adaptation to TP8.

This step is executed through the MFT8 procedure.

- Initialize the DSMS Workstation files (INWD).

This step is executed through the INWD procedure. The NODE parameter in the parameters installation file specifies the value of the NODE-NAME of the \$UMCU/\$SOURCE/DNODE file.

- Define the DSMS Workstation.

This step is executed through the DFWD procedure after having checked and modified, if necessary, the \$UMCU/\$SOURCE.DFWCL source file.

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The following parameters are used:

- . The name of the VIP or TTY MAILBOXES are defined through the VIPMB and TTYMB parameters.
- . The name of the DSMS Workstation is defined through the DSN parameter.
- . The name of the MAILBOX associated with the DSMS Workstation is defined through the DSMB parameter.
- Define the TQ Workstation.

This step is executed through the DFTQ procedure. It is recommended to insert the source of the QUEUER TRANSACTION for DSMS into a TQ workstation which already exists on site. The parameters used are:

- . The name of the MAILBOX associated with the DSMS Workstation is defined through the PBMB parameter.
- . The name of the TQ Workstation is defined through the TQN parameter.
- . The name of the VIP or TTY MAILBOXES are defined through the VIPMB and TTYMB parameters.
- Initialize the TQ Workstation.

To activate the TQ Workstation, and when the TQ Workstation is used to manage DSMS under TP8, run the INTQ procedure.

The INTQ procedure includes a '\$ PRIVITY' JCL card. Its submission must be confirmed on the MASTER console.

- Run the DSMS Workstation with the ENWS procedure.

If the user needs to operate in DMIV-TP, he/she should refer back to the DMIV-TP installation steps, after running the MFT4 procedure, which eliminates the FMS options for TP8 on the database files.

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-/14 INTEGRATION OF DSMS IN VA PAC UNDER TP8

Only the installation of DSMS integrated in VA Pac is described in this section.

These steps must be executed by the TP8 administrator.

The JCL described below is stored under the \$UMCU/\$JCL catalog.

For the TP8 environment to operate, it is necessary to:

- Link-edit DSMS TPRs and load them in a library.

This step is executed through the SLU1, SLU2, SLU3 and SLU4 procedures.

- Modify the FMS options on the database data files for adaptation to TP8.

This step is executed through the MFT8 procedure.

Then activate the TQ workstation, if required, by running the \$UMCUP/\$JCLP.INTQ procedure and then run the VA Pac workstation with the \$UMCUP/\$JCLP.ENWS procedure.

If the user needs to operate in DMIV-TP, he/she should refer back to the DMIV-TP installation steps, after running the MFT4 procedure, which eliminates the FMS options for TP8 on the database files.

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$       IDENT    $IDENT,$DEST.FIT8
$       NOTE     *****
$       NOTE     * DSMS
$       NOTE     * ====
$       NOTE     *
$       NOTE     *                                     CREATION OF TP8 FILES
$       NOTE     *
$       NOTE     *****
$       FILSYS
$       IGNORE ERRS
FC $UMCT/$FIL8.WD-FILE,WRITE/$UMCU/,
    LLINKS/840,840/,MODE/RAND/,ACCESS/MONITOR/,
    PAGESIZE/512/
FC $UMCT/$FIL8.WE-FILE,WRITE/$UMCU/,
    LLINKS/420,420/,MODE/RAND/,ACCESS/MONITOR/,
    PAGESIZE/512/
FC $UMCT/$FIL8.RC,WRITE/$UMCU/,
    LLINKS/999,1500/,MODE/RAND/,ACCESS/CONCURRENT/,
    INCRSAVE/NO/
FC $UMCT/$FIL8.SW,WRITE/$UMCU/,
    LLINKS/5000,5000/,MODE/RAND/,ACCESS/CONCURRENT/,
    INCRSAVE/NO/
FC $UMCT/$FIL8.TPRLIB,WRITE/$UMCU/,
    LLINKS/25000,30000/,MODE/RAND/,ACCESS/CONCURRENT/,
    INCRSAVE/NO/
$       ENDJOB

```

INSTALLATION
BREAKDOWN OF THE INSTALLATION PROCEDURE
TP8 ENVIRONMENT GENERATION

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```

$ IDENT $IDENT,$DEST.II18
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * INITIALIZATION OF TPR LIBRARY *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.LOD$SR
$ PRMFL OT,W,R,$UMCT/$FIL8.TPRLIB

```


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 BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$ IDENT $IDENT,$DEST.CRDY
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * COMPILE LINK READY TPR *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ OPTION CBL74,SAVE/DSRYSG
$ OPTION NOGO,NOSETU,SYMREF
$ USE S.SSSG/1/,D.SSSG/1/
$ CBL74 DECK,COPY,XREF,MAP,PMAP
$ SELECT $UMCS/$SOURCE.DSRYSG
$ PRMFL 6*,W,R,$UMCS/$SCHEMA.SSSG
$ PRMFL C*,W,S,$UMCS/$OBJTP.DSRYSG
$ LIBRARY IT,IA
$ EXECUTE
$ PRMFL IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$ PRMFL IT,R,R,&IT008P/EXEC/IT.LIB
$ FILE H*,H01SS,10R
$ LODLIB
$ FILE H*,H01RR
$ DATA I*
GET H*
UPDATE
TABLE
$ PRMFL OT,W,R,$UMCT/$FIL8.TPRLIB

```

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```

$ IDENT $IDENT,$DEST.SLU1
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ NOTE *** DS0AA0 ***
$ OPTION CBL74,SAVE/DS0AA0,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS0AA0
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00AA ***
$ OPTION CBL74,SAVE/DS00AA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00AA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00AB ***
$ OPTION CBL74,SAVE/DS00AB,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00AB
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00BA ***
$ OPTION CBL74,SAVE/DS00BA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00BA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00B1 ***
$ OPTION CBL74,SAVE/DS00B1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00B1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00B2 ***
$ OPTION CBL74,SAVE/DS00B2,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00B2
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00B3 ***
$ OPTION CBL74,SAVE/DS00B3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00B3
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00B4 ***
$ OPTION CBL74,SAVE/DS00B4,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00B4
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00B5 ***
$ OPTION CBL74,SAVE/DS00B5,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00B5
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00EA ***
$ OPTION CBL74,SAVE/DS00EA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00EA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E1 ***
$ OPTION CBL74,SAVE/DS00E1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E2 ***
$ OPTION CBL74,SAVE/DS00E2,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E2
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E3 ***
$ OPTION CBL74,SAVE/DS00E3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E3

```

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```
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E4 ***
$ OPTION CBL74,SAVE/DS00E4,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E4
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E5 ***
$ OPTION CBL74,SAVE/DS00E5,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E5
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00E6 ***
$ OPTION CBL74,SAVE/DS00E6,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00E6
$ SELECT $UMCU/$JCL/UPD$SR
$ ENDJOB
```

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BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$ IDENT $IDENT,$DEST.SLU2
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ NOTE *** DS00FA ***
$ OPTION CBL74,SAVE/DS00FA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00FA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00FB ***
$ OPTION CBL74,SAVE/DS00FB,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00FB
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00HE ***
$ OPTION CBL74,SAVE/DS00HE,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00HE
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00JO ***
$ OPTION CBL74,SAVE/DS00JO,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00JO
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00KA ***
$ OPTION CBL74,SAVE/DS00KA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00KA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00K1 ***
$ OPTION CBL74,SAVE/DS00K1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00K1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00K2 ***
$ OPTION CBL74,SAVE/DS00K2,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00K2
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00K3 ***
$ OPTION CBL74,SAVE/DS00K3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00K3
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00LE ***
$ OPTION CBL74,SAVE/DS00LE,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00LE
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00LS ***
$ OPTION CBL74,SAVE/DS00LS,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00LS
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00MA ***
$ OPTION CBL74,SAVE/DS00MA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00MA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00PA ***
$ OPTION CBL74,SAVE/DS00PA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00PA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00P1 ***
$ OPTION CBL74,SAVE/DS00P1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00P1

```

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```

$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00QA ***
$ OPTION CBL74,SAVE/DS00QA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00QA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00QB ***
$ OPTION CBL74,SAVE/DS00QB,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00QB
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00QC ***
$ OPTION CBL74,SAVE/DS00QC,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00QC
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q1 ***
$ OPTION CBL74,SAVE/DS00Q1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q2 ***
$ OPTION CBL74,SAVE/DS00Q2,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q2
$ SELECT $UMCU/$JCL/UPD$SR
$ ENDJOB

```

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```

$ IDENT $IDENT,$DEST.SLU3
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ NOTE *** DS00Q3 ***
$ OPTION CBL74,SAVE/DS00Q3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q3
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q4 ***
$ OPTION CBL74,SAVE/DS00Q4,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q4
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q5 ***
$ OPTION CBL74,SAVE/DS00Q5,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q5
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q6 ***
$ OPTION CBL74,SAVE/DS00Q6,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q6
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q7 ***
$ OPTION CBL74,SAVE/DS00Q7,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q7
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q8 ***
$ OPTION CBL74,SAVE/DS00Q8,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q8
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00Q9 ***
$ OPTION CBL74,SAVE/DS00Q9,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00Q9
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00SA ***
$ OPTION CBL74,SAVE/DS00SA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00SA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00SI ***
$ OPTION CBL74,SAVE/DS00SI,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00SI
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S1 ***
$ OPTION CBL74,SAVE/DS00S1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S3 ***
$ OPTION CBL74,SAVE/DS00S3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S3
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S4 ***
$ OPTION CBL74,SAVE/DS00S4,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S4
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S5 ***
$ OPTION CBL74,SAVE/DS00S5,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S5

```

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```
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S6 ***
$ OPTION CBL74,SAVE/DS00S6,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S6
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S7 ***
$ OPTION CBL74,SAVE/DS00S7,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S7
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00S8 ***
$ OPTION CBL74,SAVE/DS00S8,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S8
$ SELECT $UMCU/$JCL/UPD$SR
$ ENDJOB
```

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```

$ IDENT $IDENT,$DEST.SLU4
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ NOTE *** DS00S9 ***
$ OPTION CBL74,SAVE/DS00S9,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00S9
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TA ***
$ OPTION CBL74,SAVE/DS00TA,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TA
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TT ***
$ OPTION CBL74,SAVE/DS00TT,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TT
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TU ***
$ OPTION CBL74,SAVE/DS00TU,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TU
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TV ***
$ OPTION CBL74,SAVE/DS00TV,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TV
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TW ***
$ OPTION CBL74,SAVE/DS00TW,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TW
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TX ***
$ OPTION CBL74,SAVE/DS00TX,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TX
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TY ***
$ OPTION CBL74,SAVE/DS00TY,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TY
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00TZ ***
$ OPTION CBL74,SAVE/DS00TZ,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00TZ
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T1 ***
$ OPTION CBL74,SAVE/DS00T1,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T1
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T2 ***
$ OPTION CBL74,SAVE/DS00T2,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T2
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T3 ***
$ OPTION CBL74,SAVE/DS00T3,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T3
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T4 ***
$ OPTION CBL74,SAVE/DS00T4,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T4

```


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```
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T5 ***
$ OPTION CBL74,SAVE/DS00T5,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T5
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T6 ***
$ OPTION CBL74,SAVE/DS00T6,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T6
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T7 ***
$ OPTION CBL74,SAVE/DS00T7,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T7
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T8 ***
$ OPTION CBL74,SAVE/DS00T8,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T8
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00T9 ***
$ OPTION CBL74,SAVE/DS00T9,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00T9
$ SELECT $UMCU/$JCL/UPD$SR
$ NOTE *** DS00UD ***
$ OPTION CBL74,SAVE/DS00UD,NOGO
$ USE S.SSSG/1/,D.SSSG/1/
$ SELECT $UMCS/$OBJTP.DS00UD
$ SELECT $UMCU/$JCL/UPD$SR
$ ENDJOB
```

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```
$ SELECT $UMCU/$JCL.PARD
$ LIBRARY L1,L2,IA
$ EXECUTE
$ LIMITS ,70K
$ PRMFL L2,R,R,&IT008P/EXEC/IT.LIB
$ PRMFL L1,R,R,$UMCS/$FILS.OBJLIB
$ PRMFL IA,R,R,&ID2E8P/EXEC/MODULIB.LIB
$ FILE H*,X1S,50R
$ PROGRAM SL-UPD,DUMP
$ PRMFL **,R,R,SSP/SI4.2/UT/AIDS/SL-UPD.QS
$ LIMITS 99,80K
TABLE
$ FILE H*,X1R
$ PRMFL OT,W,R,&(FIL8)TPRLIB
```

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```
$ SELECT $UMCU/$JCL.PARD
$ LIBRARY L1,L2,IA
$ EXECUTE
$ LIMITS ,70K
$ PRMFL L2,R,R,&IT008P/EXEC/IT.LIB
$ PRMFL L1,R,R,$UMCS/$FILS.OBJLIB
$ PRMFL IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$ FILE H*,X1S,50R
$ PROGRAM LODL,DUMP
$ PRMFL **,R,R,CMDLIB/ETC/QSTAR
$ LIMITS 99,80K
$ DATA CZ
LODL UPDATE=FC*OT INCLUDE=FC*IN +VERBOSE
$ FILE IN,X1R
$ PRMFL OT,W,R,&(FIL8)TPRLIB
```

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```

$      IDENT      $IDENT,$DEST.MFT8
$      NOTE      *****
$      NOTE      * DSMS
$      NOTE      * ====
$      NOTE      *
$      NOTE      *          ADAPTATION OF THE DATABASE FILES FOR TP8
$      NOTE      *
$      NOTE      *****
$      FILSYS
USERID $UMCB$PWB
MF     $UMCB/$BASE.DA,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.AD,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.DC,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.CD,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.DE,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.ED,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.DX,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.DH,ACCESS/MONITOR/,PAGESIZE/1024/
MF     $UMCB/$BASE.DJ,ACCESS/MONITOR/,PAGESIZE/1024/
$      ENDJOB

```

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```

$   IDENT   $IDENT,$DEST.INWD
$   NOTE   *****
$   NOTE   * DSMS
$   NOTE   * ====
$   NOTE   *
$   NOTE   *           INITIALIZATION OF WD AND WE TP8 FILES
$   NOTE   *
$   NOTE   *****
$   SELECT $SYSTEM.PROFILE.PROD/TP8
$   SELECT &IT008P/JCL/WD.INIT.RUN
$   PRMFL  WD,L,R,$UMCT/$FIL8.WD-FILE
$   PRMFL  WE,L,R,$UMCT/$FIL8.WE-FILE
$   SELECT $SYSTEM.$SSET.WS.CTL.RUN
$   PRMFL  WD,W,R,$UMCT/$FIL8.WD-FILE
$   PRMFL  WE,W,R,$UMCT/$FIL8.WE-FILE
$   DATA  IN
$   SELECT $UMCS/$SOURCE.DNODE
$   ENDJOB

```

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```

$ IDENT $IDENT,$DEST.DFWD
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * DEFINITION OF THE DSMS WORKSTATION *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM,$SSET.WS.CTL.RUN
$ PRMFL WD,W/C,R,$UMCT/$FIL8.WD-FILE
$ PRMFL WE,W/C,R,$UMCT/$FIL8.WE-FILE
$ DATA IN
$ SELECT $UMCS/$SOURCE.DFWCL
$ ENDJOB

```

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```

$   IDENT   $IDENT,$DEST.DFTQ
$   NOTE   *****
$   NOTE   * DSMS
$   NOTE   * ====
$   NOTE   *
$   NOTE   *          DEFINE TRANSACTION-QUEUER WORKSTATION
$   NOTE   *
$   NOTE   *****
$   SELECT $SYSTEM.$SSET.WS.CTL.RUN
$   PRMFL  WD,W,R,$UMCT/$FIL8.WD-FILE
$   PRMFL  WE,W,R,$UMCT/$FIL8.WE-FILE
$   SELECT $SYSTEM.PROFILE.PROD/TP8
$   DATA  IN
$   SELECT $UMCS/$SOURCE.DWTQS
$   ENDJOB

```

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```

$ IDENT $IDENT,$DEST.INTQ
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * RUN OF THE TQ WORKSTATION *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.PROFILE.PROD/TP8
$ SELECT $TQ008.JCL/TQ8.RUN
$ PRMFL WD,Q,R,$UMCT/$FIL8.WD-FILE
$ PRMFL WE,Q,R,$UMCT/$FIL8.WE-FILE
$ WORKST $TQN,PERM,0
$ DATA IN
INIT-TQ $TQN ;
$ ENDJOB
  
```


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 BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$ IDENT $IDENT,$DEST.ENWS
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * ENABLING THE DSMS WORKSTATION *
$ NOTE * *
$ NOTE *****
$ SELECT $SYSTEM.$SSET.WS.ENABL
$ PRMFL WD,R/C,R,$UMCT/$FIL8.WD-FILE
$ DATA IN
ENABLE_WORKSTATION $DSN &
                   -CONTINUE_PRIOR_RUN NO &
                   -AUTO_SPAWN YES ;
$ BREAK
$ SELECT $UMCU/$JCL.DHIN
$ ENDJOB

```

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BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$      NOTE      *****
$      NOTE      * DSMS                                     *
$      NOTE      * ====                                     *
$      NOTE      *                                           *
$      NOTE      *                WORKSTATION SPAWN PROCESS JCL          *
$      NOTE      *                                           *
$      NOTE      *****
$      SELECT    $SYSTEM.PROFILE.PROD/TP8
$      SELECT    &IT008P/JCL/TP8.RUN
$      WORKST    $DSN,PERM,250K
$      RESOURC   CSSIZE=8192K,RSPACE=35K
$      PRMFL    WD,R/C,R,$UMCT/$FIL8.WD-FILE
$      PRMFL    WE,R/C,R,$UMCT/$FIL8.WE-FILE
$      PRMFL    .2,W/C,R,$UMCT/$FIL8.SW,B
$      PRMFL    0.,W/C,R,$UMCT/$FIL8.RC,B
$      SYSOUT   WL
$      ENDJOB

```

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$      IDENT      $IDENT,$DEST.MFT4
$      NOTE      *****
$      NOTE      * DSMS
$      NOTE      * ====
$      NOTE      *
$      NOTE      *          ADAPTATION OF THE DATABASE FILES FOR DMIV-TP
$      NOTE      *
$      NOTE      *****
$      FILSYS
USERID $UMCB$PWB
MF     $UMCB/$BASE.DA,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.AD,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.DC,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.CD,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.DE,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.ED,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.DX,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.DH,ACCESS/RWW/,ABORT/NONE/
MF     $UMCB/$BASE.DJ,ACCESS/RWW/,ABORT/NONE/
$      ENDJOB

```

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17.5.15. DMIV-TP ENVIRONMENT GENERATION

13/- DSMS DMIV-TP ENVIRONMENT GENERATION

Only the installation of an independent DSMS DMIV-TP is described in this section.

JCLs described below are stored under the \$UMCU/\$JCL catalogue string.

For the DMIV-TP environment to operate, it is necessary to:

- Create the DMIV-TP system files.

This step is executed through the FIT4 procedure.

- Initialize the TPR library.

This step is executed through the ILI4 procedure.

- Link-edit DSMS TPRs and load them in a library.

This step is executed through the LNK1, LNK2, LNK3 and LNK4 procedures.

- Adapt the SYSGEN source.

This is based upon the number of users, the available memory, etc.

- Compile the SYSGEN source.

This step is executed through the SYSG procedure.

- Run the DMIV-TP system with the PTDS procedure.

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-/14 INTEGRATION OF DSMS IN VA PAC UNDER DMIV-TP

Only the installation of DSMS integrated in VA Pac running with DMIV-TP is described in this section.

For the DMIV-TP environment to operate, it is necessary to:

- Link-edit DSMS TPRs and load them in a library.

This step is executed through the LNK1, LNK2, LNK3 and LNK4 procedures located in \$UMCU/\$JCL

- Adapt the SYSGEN source if needed.

The source is \$UMCUP/\$SOURCE.SYSGEN.

- Compile the SYSGEN source.

This step is executed through the \$UMCUP/\$JCLP.SYSG procedure.

- Run the DMIV-TP system with the \$UMCUP/\$JCLP.PTDS procedure.

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```

$ IDENT $IDENT,$DEST.FIT4
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * CREATION OF DMIV-TP FILES *
$ NOTE * *
$ NOTE *****
$ FILSYS
USERID $UMCT$PWT
FC $UMCT/$FILT.RC,WRITE/$UMCU/,
  LLINKS/60,60/,MODE/RAND/,ACCESS/CONCURRENT/
FC $UMCT/$FILT.SW,WRITE/$UMCU/,
  LLINKS/1500,1500/,MODE/RAND/
FC $UMCT/$FILT.DF,WRITE/$UMCU/,
  LLINKS/0616,0616/,MODE/RAND/
FC $UMCT/$FILT.TP-SYS,WRITE/$UMCU/,
  LLINKS/600,12000/,MODE/RAND/
FC $UMCT/$FILT.LOADMMap,WRITE/$UMCU/,
  LLINKS/122,2440/,MODE/SEQ/
FC $UMCT/$FILT.J1,WRITE/$UMCU/,
  LLINKS/500,500/,MODE/RAND/
FC $UMCT/$FILT.J2,WRITE/$UMCU/,
  LLINKS/500,500/,MODE/RAND/
FC $UMCT/$FILT.TPR-OBJ,LLINKS/9000,23000/,ACCESS/RWW/,
  MODE/RAND/

```

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```

$ IDENT $IDENT,$DEST.ILI4
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * INITIALIZATION OF TPR LIBRARY *
$ NOTE * *
$ NOTE *****
$ PROGRAM TP-LIB
$ LIMITS ,32K
$ PRMFL **,R,R,SPS/TA4.1/SYS/PROGRAMS
$ PRMFL H*,R,R,SPS/TA4.1/SYS/PROGRAMS
$ PRMFL F1,W,R,$UMCT/$FILT.TPR-OBJ
$ SYSOUT P1,ORG
$ DATA IN
  INITIALIZE.
$ PROGRAM TP-LIB
$ LIMITS ,32K
$ PRMFL **,R,R,SPS/TA4.1/SYS/PROGRAMS
$ PRMFL H*,R,R,SPS/TA4.1/SYS/PROGRAMS
$ PRMFL F1,W,R,$UMCT/$FILT.TPR-OBJ
$ SYSOUT P1,ORG
$ DATA IN
  INSERT TP-OPT.
  INSERT TP-ABT.
  INSERT TP-DIS.
  INSERT TP-LOT.
  INSERT TP-MST.
  INSERT TP-TPT.
  INSERT TP-DBS.
  LIST.
$ ENDJOB

```

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```

$ IDENT $IDENT,$DEST.LNK1
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ OPTION NOGO,CBL74,SAVE/DS0AA0
$ USE S.SSSG/1/,D.SSSG/1/,DS0AA0
$ SELECT $UMCS/$OBJTP.DS0AA0
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS0AA0.
$ OPTION NOGO,CBL74,SAVE/DS00AA
$ USE S.SSSG/1/,D.SSSG/1/,DS00AA
$ SELECT $UMCS/$OBJTP.DS00AA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00AA.
$ OPTION NOGO,CBL74,SAVE/DS00AB
$ USE S.SSSG/1/,D.SSSG/1/,DS00AB
$ SELECT $UMCS/$OBJTP.DS00AB
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00AB.
$ OPTION NOGO,CBL74,SAVE/DS00BA
$ USE S.SSSG/1/,D.SSSG/1/,DS00BA
$ SELECT $UMCS/$OBJTP.DS00BA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00BA.
$ OPTION NOGO,CBL74,SAVE/DS00B1
$ USE S.SSSG/1/,D.SSSG/1/,DS00B1
$ SELECT $UMCS/$OBJTP.DS00B1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00B1.
$ OPTION NOGO,CBL74,SAVE/DS00B2
$ USE S.SSSG/1/,D.SSSG/1/,DS00B2
$ SELECT $UMCS/$OBJTP.DS00B2
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00B2.
$ OPTION NOGO,CBL74,SAVE/DS00B3
$ USE S.SSSG/1/,D.SSSG/1/,DS00B3
$ SELECT $UMCS/$OBJTP.DS00B3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00B3.
$ OPTION NOGO,CBL74,SAVE/DS00B4
$ USE S.SSSG/1/,D.SSSG/1/,DS00B4
$ SELECT $UMCS/$OBJTP.DS00B4
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00B4.
$ OPTION NOGO,CBL74,SAVE/DS00B5
$ USE S.SSSG/1/,D.SSSG/1/,DS00B5
$ SELECT $UMCS/$OBJTP.DS00B5
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00B5.
$ OPTION NOGO,CBL74,SAVE/DS00EA
$ USE S.SSSG/1/,D.SSSG/1/,DS00EA
$ SELECT $UMCS/$OBJTP.DS00EA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00EA.
$ OPTION NOGO,CBL74,SAVE/DS00E1
$ USE S.SSSG/1/,D.SSSG/1/,DS00E1
$ SELECT $UMCS/$OBJTP.DS00E1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00E1.
$ OPTION NOGO,CBL74,SAVE/DS00E2
$ USE S.SSSG/1/,D.SSSG/1/,DS00E2
$ SELECT $UMCS/$OBJTP.DS00E2
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00E2.
$ OPTION NOGO,CBL74,SAVE/DS00E3
$ USE S.SSSG/1/,D.SSSG/1/,DS00E3
$ SELECT $UMCS/$OBJTP.DS00E3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00E3.

```


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```
$ OPTION NOGO,CBL74,SAVE/DS00E4
$ USE S.SSSG/1/,D.SSSG/1/,DS00E4
$ SELECT $UMCS/$OBJTP.DS00E4
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00E4.
$ OPTION NOGO,CBL74,SAVE/DS00E5
$ USE S.SSSG/1/,D.SSSG/1/,DS00E5
$ SELECT $UMCS/$OBJTP.DS00E5
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00E5.
$ OPTION NOGO,CBL74,SAVE/DS00E6
$ USE S.SSSG/1/,D.SSSG/1/,DS00E6
$ SELECT $UMCS/$OBJTP.DS00E6
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00E6.
$ ENDJOB
```

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```

$ IDENT $IDENT,$DEST.LNK2
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ OPTION NOGO,CBL74,SAVE/DS00FA
$ USE S.SSSG/1/,D.SSSG/1/,DS00FA
$ SELECT $UMCS/$OBJTP.DS00FA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00FA.
$ OPTION NOGO,CBL74,SAVE/DS00FB
$ USE S.SSSG/1/,D.SSSG/1/,DS00FB
$ SELECT $UMCS/$OBJTP.DS00FB
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00FB.
$ OPTION NOGO,CBL74,SAVE/DS00HE
$ USE S.SSSG/1/,D.SSSG/1/,DS00HE
$ SELECT $UMCS/$OBJTP.DS00HE
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00HE.
$ OPTION NOGO,CBL74,SAVE/DS00JO
$ USE S.SSSG/1/,D.SSSG/1/,DS00JO
$ SELECT $UMCS/$OBJTP.DS00JO
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00JO.
$ OPTION NOGO,CBL74,SAVE/DS00KA
$ USE S.SSSG/1/,D.SSSG/1/,DS00KA
$ SELECT $UMCS/$OBJTP.DS00KA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00KA.
$ OPTION NOGO,CBL74,SAVE/DS00K1
$ USE S.SSSG/1/,D.SSSG/1/,DS00K1
$ SELECT $UMCS/$OBJTP.DS00K1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00K1.
$ OPTION NOGO,CBL74,SAVE/DS00K2
$ USE S.SSSG/1/,D.SSSG/1/,DS00K2
$ SELECT $UMCS/$OBJTP.DS00K2
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00K2.
$ OPTION NOGO,CBL74,SAVE/DS00K3
$ USE S.SSSG/1/,D.SSSG/1/,DS00K3
$ SELECT $UMCS/$OBJTP.DS00K3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00K3.
$ OPTION NOGO,CBL74,SAVE/DS00LE
$ USE S.SSSG/1/,D.SSSG/1/,DS00LE
$ SELECT $UMCS/$OBJTP.DS00LE
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00LE.
$ OPTION NOGO,CBL74,SAVE/DS00LS
$ USE S.SSSG/1/,D.SSSG/1/,DS00LS
$ SELECT $UMCS/$OBJTP.DS00LS
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00LS.
$ OPTION NOGO,CBL74,SAVE/DS00MA
$ USE S.SSSG/1/,D.SSSG/1/,DS00MA
$ SELECT $UMCS/$OBJTP.DS00MA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00MA.
$ OPTION NOGO,CBL74,SAVE/DS00PA
$ USE S.SSSG/1/,D.SSSG/1/,DS00PA
$ SELECT $UMCS/$OBJTP.DS00PA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00PA.
$ OPTION NOGO,CBL74,SAVE/DS00P1
$ USE S.SSSG/1/,D.SSSG/1/,DS00P1
$ SELECT $UMCS/$OBJTP.DS00P1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00P1.

```

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```
$ OPTION NOGO,CBL74,SAVE/DS00QA
$ USE S.SSSG/1/,D.SSSG/1/,DS00QA
$ SELECT $UMCS/$OBJTP.DS00QA
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00QA.
$ OPTION NOGO,CBL74,SAVE/DS00QB
$ USE S.SSSG/1/,D.SSSG/1/,DS00QB
$ SELECT $UMCS/$OBJTP.DS00QB
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00QB.
$ OPTION NOGO,CBL74,SAVE/DS00QC
$ USE S.SSSG/1/,D.SSSG/1/,DS00QC
$ SELECT $UMCS/$OBJTP.DS00QC
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00QC.
$ OPTION NOGO,CBL74,SAVE/DS00Q1
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q1
$ SELECT $UMCS/$OBJTP.DS00Q1
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00Q1.
$ OPTION NOGO,CBL74,SAVE/DS00Q2
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q2
$ SELECT $UMCS/$OBJTP.DS00Q2
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00Q2.
$ ENDJOB
```

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 BREAKDOWN OF THE INSTALLATION PROCEDURE
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```

$ IDENT $IDENT,$DEST.LNK3
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ OPTION NOGO,CBL74,SAVE/DS00Q3
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q3
$ SELECT $UMCS/$OBJTP.DS00Q3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q3.
$ OPTION NOGO,CBL74,SAVE/DS00Q4
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q4
$ SELECT $UMCS/$OBJTP.DS00Q4
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q4.
$ OPTION NOGO,CBL74,SAVE/DS00Q5
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q5
$ SELECT $UMCS/$OBJTP.DS00Q5
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q5.
$ OPTION NOGO,CBL74,SAVE/DS00Q6
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q6
$ SELECT $UMCS/$OBJTP.DS00Q6
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q6.
$ OPTION NOGO,CBL74,SAVE/DS00Q7
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q7
$ SELECT $UMCS/$OBJTP.DS00Q7
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q7.
$ OPTION NOGO,CBL74,SAVE/DS00Q8
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q8
$ SELECT $UMCS/$OBJTP.DS00Q8
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q8.
$ OPTION NOGO,CBL74,SAVE/DS00Q9
$ USE S.SSSG/1/,D.SSSG/1/,DS00Q9
$ SELECT $UMCS/$OBJTP.DS00Q9
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00Q9.
$ OPTION NOGO,CBL74,SAVE/DS00SA
$ USE S.SSSG/1/,D.SSSG/1/,DS00SA
$ SELECT $UMCS/$OBJTP.DS00SA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00SA.
$ OPTION NOGO,CBL74,SAVE/DS00SI
$ USE S.SSSG/1/,D.SSSG/1/,DS00SI
$ SELECT $UMCS/$OBJTP.DS00SI
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00SI.
$ OPTION NOGO,CBL74,SAVE/DS00S1
$ USE S.SSSG/1/,D.SSSG/1/,DS00S1
$ SELECT $UMCS/$OBJTP.DS00S1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00S1.
$ OPTION NOGO,CBL74,SAVE/DS00S3
$ USE S.SSSG/1/,D.SSSG/1/,DS00S3
$ SELECT $UMCS/$OBJTP.DS00S3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00S3.
$ OPTION NOGO,CBL74,SAVE/DS00S4
$ USE S.SSSG/1/,D.SSSG/1/,DS00S4
$ SELECT $UMCS/$OBJTP.DS00S4
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00S4.
$ OPTION NOGO,CBL74,SAVE/DS00S5
$ USE S.SSSG/1/,D.SSSG/1/,DS00S5
$ SELECT $UMCS/$OBJTP.DS00S5
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00S5.

```

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```
$ OPTION NOGO,CBL74,SAVE/DS00S7
$ USE S.SSSG/1/,D.SSSG/1/,DS00S7
$ SELECT $UMCS/$OBJTP.DS00S7
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00S7.
$ OPTION NOGO,CBL74,SAVE/DS00S8
$ USE S.SSSG/1/,D.SSSG/1/,DS00S8
$ SELECT $UMCS/$OBJTP.DS00S8
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00S8.
$ ENDJOB
```

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```

$ IDENT $IDENT,$DEST.LNK4
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * LINK OF TPRS *
$ NOTE * *
$ NOTE *****
$ OPTION NOGO,CBL74,SAVE/DS00S9
$ USE S.SSSG/1/,D.SSSG/1/,DS00S9
$ SELECT $UMCS/$OBJTP.DS00S9
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00S9.
$ OPTION NOGO,CBL74,SAVE/DS00TA
$ USE S.SSSG/1/,D.SSSG/1/,DS00TA
$ SELECT $UMCS/$OBJTP.DS00TA
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TA.
$ OPTION NOGO,CBL74,SAVE/DS00TT
$ USE S.SSSG/1/,D.SSSG/1/,DS00TT
$ SELECT $UMCS/$OBJTP.DS00TT
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TT.
$ OPTION NOGO,CBL74,SAVE/DS00TU
$ USE S.SSSG/1/,D.SSSG/1/,DS00TU
$ SELECT $UMCS/$OBJTP.DS00TU
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TU.
$ OPTION NOGO,CBL74,SAVE/DS00TV
$ USE S.SSSG/1/,D.SSSG/1/,DS00TV
$ SELECT $UMCS/$OBJTP.DS00TV
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TV.
$ OPTION NOGO,CBL74,SAVE/DS00TW
$ USE S.SSSG/1/,D.SSSG/1/,DS00TW
$ SELECT $UMCS/$OBJTP.DS00TW
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TW.
$ OPTION NOGO,CBL74,SAVE/DS00TX
$ USE S.SSSG/1/,D.SSSG/1/,DS00TX
$ SELECT $UMCS/$OBJTP.DS00TX
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TX.
$ OPTION NOGO,CBL74,SAVE/DS00TY
$ USE S.SSSG/1/,D.SSSG/1/,DS00TY
$ SELECT $UMCS/$OBJTP.DS00TY
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TY.
$ OPTION NOGO,CBL74,SAVE/DS00TZ
$ USE S.SSSG/1/,D.SSSG/1/,DS00TZ
$ SELECT $UMCS/$OBJTP.DS00TZ
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00TZ.
$ OPTION NOGO,CBL74,SAVE/DS00T1
$ USE S.SSSG/1/,D.SSSG/1/,DS00T1
$ SELECT $UMCS/$OBJTP.DS00T1
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00T1.
$ OPTION NOGO,CBL74,SAVE/DS00T2
$ USE S.SSSG/1/,D.SSSG/1/,DS00T2
$ SELECT $UMCS/$OBJTP.DS00T2
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00T2.
$ OPTION NOGO,CBL74,SAVE/DS00T3
$ USE S.SSSG/1/,D.SSSG/1/,DS00T3
$ SELECT $UMCS/$OBJTP.DS00T3
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00T3.
$ OPTION NOGO,CBL74,SAVE/DS00T4
$ USE S.SSSG/1/,D.SSSG/1/,DS00T4
$ SELECT $UMCS/$OBJTP.DS00T4
$ SELECT $UMCU/$JCL.LNP4
$ UPDATE DS00T4.

```

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```
$ OPTION NOGO,CBL74,SAVE/DS00T5
$ USE S.SSSG/1/,D.SSSG/1/,DS00T5
$ SELECT $UMCS/$OBJTP.DS00T5
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00T5.
$ OPTION NOGO,CBL74,SAVE/DS00T6
$ USE S.SSSG/1/,D.SSSG/1/,DS00T6
$ SELECT $UMCS/$OBJTP.DS00T6
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00T6.
$ OPTION NOGO,CBL74,SAVE/DS00T7
$ USE S.SSSG/1/,D.SSSG/1/,DS00T7
$ SELECT $UMCS/$OBJTP.DS00T7
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00T7.
$ OPTION NOGO,CBL74,SAVE/DS00T8
$ USE S.SSSG/1/,D.SSSG/1/,DS00T8
$ SELECT $UMCS/$OBJTP.DS00T8
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00T8.
$ OPTION NOGO,CBL74,SAVE/DS00T9
$ USE S.SSSG/1/,D.SSSG/1/,DS00T9
$ SELECT $UMCS/$OBJTP.DS00T9
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00T9.
$ OPTION NOGO,CBL74,SAVE/DS00UD
$ USE S.SSSG/1/,D.SSSG/1/,DS00UD
$ SELECT $UMCS/$OBJTP.DS00UD
$ SELECT $UMCU/$JCL.LNP4
UPDATE DS00UD.
$ ENDJOB
```

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```
$ LIBRARY L2,L1
$ EXECUTE
$ LIMITS ,80K
$ PRMFL L2,R,R,$UMCS/$FILS.OBJLIB
$ PRMFL L1,R,R,SPS/TA4.1/SYS/MODULIB
$ FILE H*,H01SS,10R
$ PROGRAM TP-LIB
$ LIMITS ,68K
$ PRMFL **,R,R,SPS/TA4.1/SYS/PROGRAMS
$ FILE H*,H01R
$ SYSOUT P1,ORG
$ PRMFL F1,W/C,R,$UMCT/$FILT.TPR-OBJ
$ DATA IN
```


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```

$      IDENT  $IDENT,$DEST.SYSG
$      NOTE   *****
$      NOTE   * DSMS
$      NOTE   * ====
$      NOTE   *
$      NOTE   *          COMPILATION OF SYSGEN
$      NOTE   *
$      NOTE   *****
$      PROGRAM TP-SGN
$      DATA  IN,COPY
$$SELECT($UMCS/$SOURCE.SYSGEN)
$      ENDCOPY
$$SELECT(SPS/TA4.1/PROC/TP-SGN)
$      LIMITS 20,180K
$      PRMFL  Q*,W,R,$UMCT/$FILT.TP-SYS
$      DATA  SS,COPY
$      SELECTD $UMCS/$SCHEMA.CSTARSG
$      ENDCOPY
$      PRMFL  P*,W,S,$UMCT/$FILT.LOADMAP
$      DATA  UL,COPY
$      SELECTD $UMCT/$FILT.O-CTE
$      SELECTD $UMCT/$FILT.O-USEND
$      ENDCOPY
$      CONVER
$      LIMITS ,,,10K
$      PRMFL  IN,R,S,$UMCT/$FILT.LOADMAP
$      SYSOUT OT,ORG
$      ENDJOB

```

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```

$ IDENT $IDENT,$TDS
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * TDS SUBMISSION PROCEDURE *
$ NOTE * *
$ NOTE *****
$ PROGRAM TP-ONL
$ SET 20,21,26,27
$ LIMITS 999,250K
$ PRMFL ** ,R,R,$UMCT/$FILT.TP-SYS
$ PRMFL RC,W,R,$UMCT/$FILT.RC
$ PRMFL SW,W,R,$UMCT/$FILT.SW
$ PRMFL LB,R/C,R,$UMCT/$FILT.TPR-OBJ
$ FILE L1,,1000R
$ PRMFL DF,W,R,$UMCT/$FILT.DF
$ PRMFL J1,W,R,$UMCT/$FILT.J1
$ PRMFL J2,W,R,$UMCT/$FILT.J2
$ PRMFL DC,W/C,R,$UMCB/$BASE.DC
$ PRMFL CD,W/C,R,$UMCB/$BASE.CD
$ PRMFL DA,W/C,R,$UMCB/$BASE.DA
$ PRMFL AD,W/C,R,$UMCB/$BASE.AD
$ PRMFL DE,W/C,R,$UMCB/$BASE.DE
$ PRMFL ED,W/C,R,$UMCB/$BASE.ED
$ PRMFL DX,W/C,R,$UMCB/$BASE.DX
$ PRMFL DH,W/C,R,$UMCB/$BASE.DH
$ PRMFL DJ,W/C,R,$UMCB/$BASE.DJ
$ BREAK
$ PROGRAM Q2UTIL
$ LIMITS ,45K
$ PRMFL DH,L,R,$UMCB/$BASE.DH
$ DATA I*
IDS2 INITIAL FC/DH/
$ PRMFL 1*,R/C,R,$UMCS/$SCHEMA.1STAR
  
```

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18. REINSTALLATION

18.1. REINSTALLATION

REINSTALLATION

The reinstallation procedure involves three main steps:

- . Preparation
- . De-parameterization of the JCLs
- . Reinstallation proper.

The procedure is carried out as follows:

PREPARATION

- . Tape backup
- . Allocation of a temporary UMC: \$UMCI (15,000 links)
- . Loading the UMC from the new tape.

JCL DE-PARAMETERIZATION

This step should be performed if the installation document supplied with the tape specifies it.

In the parameter file of the previous installation, insert the file containing the selection lines for the procedures to be retrieved. (This file's string should be specified in the installation document.)

Then, run the UTI110 procedure.

To retrieve the de-parameterized JCLs, use the following command:

```
DRUN $UMCI/DSMD/D250/INST/JCL;$UMCU/CR
```

REINSTALLATION

The DSMS re-installation process includes nine steps:

1. 'RCBA' Installation of batch files and programs,
2. 'RCTP' Installation of on-Line files and programs,
3. 'RAND' Formatting of the subprogram library,
4. 'LNKn' Link TPRs on DMIV-TP or,
4. 'SLUn' Link TPRs on TP8,
5. 'PDSB' Link print request programs,
6. 'LUPT' Link batch update programs,
7. 'LEXT' Link DSMS database extraction programs,
8. 'LREN' Link rename programs.
9. 'DCDE' Loading of the error message file.

1. INSTALLATION OF BATCH FILES AND PROGRAMS

This procedure is used to retrieve all the DSMS BATCH objects in their operations environment.

To perform this operation, execute (via the CRUN command), in the DSMS environment, the following procedure:

```
'$UMCU/$JCL.RCBA;$UMCU/CRRB'
```

If a problem occurs, consult the last lines of the '\$UMCU/CRRB' file to identify its cause.

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COPY INDEX=\$UMCU/\$JCL.RCBAX

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\$UMCI/DSMD/D250/BOBJ/DSCHOI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUAM	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUEV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUMQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCURQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSCUSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUAA	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUB4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUE3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUK1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUP1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ5	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ7	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUQ8	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUS6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTW	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTX	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTY	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUTZ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT1	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT2	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT3	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT4	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT5	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT6	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT7	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT8	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/DSUT9	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PACABE	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDCHOI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSA10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSBE	\$UMCS/\$OBJBT. PDSB
\$UMCI/DSMD/D250/BOBJ/PDSBAS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCAM	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCEV	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCMQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCRQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSCSI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSERQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSEXE	\$UMCS/\$OBJBT. PDSEX
\$UMCI/DSMD/D250/BOBJ/PDSE90	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSINI	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSJMS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSLVB	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSMSE	\$UMCS/\$OBJBT. PDSMS
\$UMCI/DSMD/D250/BOBJ/PDSRCT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSRFU	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSRMS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR15	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR20	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR30	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR40	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR5J	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8B	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8C	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8D	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8Q	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSR8R	\$UMCS/\$OBJBT.

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\$UMCI/DSMD/D250/BOBJ/PDSR8X	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSTAS	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSTEB	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSUP0	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV10	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV25	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSV80	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXCT	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXST	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXTH	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDSXTR	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS0RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS1RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS2RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS3RQ	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS300	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS320	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS381	\$UMCS/\$OBJBT. PDS380
\$UMCI/DSMD/D250/BOBJ/PDS400	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS450	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS500	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS600	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS610	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PDS700	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/PTU001	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABBA	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABLO	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/SIABTP	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/ZAR300	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/BOBJ/ZAR980	\$UMCS/\$OBJBT.
\$UMCI/DSMD/D250/FILE/AE0	\$UMCS/\$FILS.
\$UMCI/DSMD/D250/FILE/CSTPAC	\$UMCS/\$SOURCE. CSTDSM
\$UMCI/DSMD/D250/FILE/DSCUAM	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUEV	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUMQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCURQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/DSCUSI	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCAM	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCEV	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCMQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCRQ	\$UMCS/\$SOURCE.
\$UMCI/DSMD/D250/FILE/PDSCSI	\$UMCS/\$SOURCE.

2. INSTALLATION OF ON-LINE FILES AND PROGRAMS

This procedure is used to retrieve all the DSMS ON-LINE objects in their operations environment.

To perform this operation, execute (via the CRUN command), in the DSMS environment, the following procedure:

```
'$UMCU/$JCL.RCTP;$UMCU/CRRT'
```

If a problem occurs, consult the last lines of the '\$UMCU/CRRT' file to identify its cause.

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COPY INDEX=\$UMCU/\$JCL.RCTPX

3. FORMATTING THE SUB-PROGRAMS LIBRARY

This procedure is used to build the DSMS sub-programs library that is used in the LINKS of TPRS and in the procedures execution.

To perform this operation, execute (via the JRN command) in the DSMS environment, the file:

'\$UMCU/\$JCL.RAND'

See the source of the procedure in Chapter INSTALLATION.

4. LINK OF TPRS (LNKn, SLUn)

These procedures are used to take into account the sub-programs new versions in the DSMS TPRs and to reload them in their library.

If DSMS is installed on DMIV-TP, this operation is performed by executing, (via the JRN command), in the DSMS environment, the procedures

' \$UMCU/\$JCL.LNK1 '

' \$UMCU/\$JCL.LNK2 '

' \$UMCU/\$JCL.LNK3 '

' \$UMCU/\$JCL.LNK4 '

If DSMS is installed on TP8, this operation is performed by executing, (via the JRN command), in the DSMS environment, the procedures

' \$UMCU/\$JCL.SLU1 '

' \$UMCU/\$JCL.SLU2 '

' \$UMCU/\$JCL.SLU3 '

' \$UMCU/\$JCL.SLU4 '

See sources of these procedures in Chapter INSTALLATION.

5. LINK OF THE 'DPRT' PROGRAMS

To link the programs of the print queries, execute, (via (the JRN command), in the DSMS environment, the procedure
'\$UMCU/\$JCL.PDSB'

See the source of the procedure in Chapter INSTALLATION.

6. LINK OF THE 'DUPT' PROGRAMS

To link the programs of the BATCH update, execute, (via (the JRN command)
in the DSMS environment, the procedure

'\$UMCU/\$JCL.LUPT'

See the source of the procedure in Chapter INSTALLATION.

7. LINK OF THE 'DEXT' PROGRAMS

To link the DSMS Database extraction programs, execute execute (via the JRN command), in the DSMS environment, the procedure
'\$UMCU/\$JCL.LEXT'

See the source of the procedure in Chapter INSTALLATION.

8. LINK OF THE 'DREN' PROGRAMS

To link the DSMS Database code updates programs execute (via JRN) in the DSMS environment, the procedure

'\$UMCU/\$JCL.LREN'

See the source of the procedure in Chapter INSTALLATION.

9. RESTORATION OF ERROR MESSAGES (DCDE)

This procedure is used to reload the error message sequential file in the SGDSDE area.

To perform this operation, execute, (via the JRN command), in the DSMS environment, the procedure

' \$UMCU/\$JCL.DCDE '

See the source of the procedure in Chapter INSTALLATION.

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19. RETRIEVAL OF DSMS 8.0.1 --> DSMS 2.5 (DR80)

19.1. OPERATIONS TO CARRY OUT

OPERATIONS TO CARRY OUT

The retrieval of a DSMS 8.0 (or 8.0.1) database and its adaptation to the new release requires the following operations:

- . 8.0/8.0.1 archival of the Database (DARC procedure).
- . 8.0/8.0.1 backup of the Database, producing a 8.0/8.0.1 file called BB (DSAV procedure).

Then, with the NEW INSTALLATION, execute the following procedures:

- . Convert the 8.0/8.0.1 (BB) DSMS database backup to the new format (DR80 procedure).
- . Reorganize the back-up in order to rebuild the DX cross-references in the new format (DREO procedure).
- . Restore the database (DRST procedure).

19.2. USER INPUT

USER INPUT

User input allows product codes to be changed from one character to three. It is composed of 1 to n lines with each line sub-divided into groups of four characters starting from column one.

! POS.!	! LEN.!	! VALUE	! MEANING
! 1 !	! 1 !	! 'P' !	! Old product code !
! 2 !	! 3 !	! 'PRO' !	! New product code !
! !	! !	! !	! Each group of 4 characters can be !
! !	! !	! !	! repeated a maximum of 20 times per !
! !	! !	! !	! line. !

19.3. BACKUP RETRIEVAL

DR80: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

CONVERSION PREPARATION: PDSR8B

.Permanent input file
-Backup of DSMS 8.0.1 DSMS database
PRMFL : <&DCI referenced by \$JCLR.DC0> BB
.Output work files:
File IQ
File IT
File IW
File LA
.Sort files:
File S1, S2, S3
.Input transaction file:
File MB
.Output report:
-Retrieval report
SYSOUT IK

CONVERSION BACKUP 8.0.2 : PDSR8C

.Input work files:
File IQ
File IT
File IW
File LA
.Permanent input file:
-Backup of DSMS 8.0.1 database
PRMFL : <&DCI referenced by \$JCLR.DC0> BB
.Output work files:
-Backup database (data)
File B1
-Backup database (VA Pac elements)
File B2
.Input transaction file:
File MB
.Sort files
File S1, S2, S3
.Output report:

-Retrieval report
SYSOUT IK

SORT AND CONCATENATION: PDSR8D

.Input work files:
-Backup database (data)
File B1
-Backup database (VA Pac items)
File B2

.Output work file:
-Sauvegarde base triée
File BB

.Sort files:
File S1, S2, S3

CONVERSION OF BACKUP 1.2 TO 2.5 FORMAT: PDSR15

.Permanent input file:
-Backup file of DSMS 1.2 Database
File BB

.Permanent output file:
-Backup of converted DSMS Database
PRMFL : \$UMCU/\$FILU.DSAV(+1) B1

.Output report:
-Printing report
SYSOUT IK

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

19.4. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DR80
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * RETRIEVAL OF 8.0, 8.0.1 *
$ NOTE * *
$ NOTE * ENTER USER INPUT IN *
$ NOTE * $UMCU/$MB.DR80 *
$ NOTE * *
$ NOTE * SET = NOTE ----> THE EXTERNAL REFERENCE OF EVENT *
$ NOTE * IS NOT INITIALIZE *
$ NOTE * *
$ NOTE * = SET ----> INITIALIZE BY SPACES OF THE *
$ NOTE * EXTERNAL REFERENCE OF EVENT *
$ NOTE * IF IT IS INCOMPLETE *
$ NOTE * *
$ NOTE *****
$ GLOBAL SET=NOTE
$ &SET 19
$ SELECT $JCLR.DC0
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DR80
$ FILE BM,C1S,1R
$ PDSR8B.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8B
$ EXECUTE DUMP
$ LIMITS ,20K
$ PRMFL BB,Q,R,&DCI
$ FILE MB,C1S
$ FILE IQ,R1S,100R
$ FILE IT,R2S,100R
$ FILE IW,R3S,100R
$ FILE LA,R4S,100R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT IK,ORG
$ IF 20,ERROR
$ PDSR8C.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8C
$ EXECUTE DUMP
$ LIMITS ,30K
$ PRMFL BB,Q,R,&DCI
$ FILE MB,C1R
$ FILE IQ,R1R
$ FILE IT,R2R
$ FILE IW,R3R
$ FILE LA,R4R
$ FILE B1,R5S,200R
$ FILE B2,R6S,200R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT IO,ORG
$ PDSR8D.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8D
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE B1,R5R
$ FILE B2,R6R
```

```
$ FILE BB,R7S,200R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PDSR15.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR15
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE BB,R7R
$ SELECT $UMCU/$JCL.DC0
$ PRMFL B1,L,R,&DCO
$ SYSOUT IK,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DR80 - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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20. RETRIEVAL OF DSMS 8.0.2 V1/V2 --> DSMS 2.5 (DR8Q)

20.1. OPERATIONS TO CARRY OUT

OPERATIONS TO CARRY OUT

NOTE: this chapter relates to databases already installed in 8.0.2 (version 01 or 02); if a DR8X or DR80 retrieval procedure was executed, do not perform this new retrieval.

Installation of the new DSMS release calls for the retrieval of the DSMS database queries, which includes the following steps:

Using the 8.0.2 01 or 02 procedures:

1. DSMS database archive (DARC)
2. DSMS database backup (DSAV)

Using the new procedures:

3. Retrieval of the BB backup file (DR8Q).
4. DSMS reorganization (DREO).
5. DSMS database restoration (DRST).

EXECUTION CONDITIONS

None.

However, to ensure the integrity of the retrieved database, it is recommended to close the database to on-line use.

USER INPUT

None.

20.2. BACKUP RETRIEVAL

DR8Q: DESCRIPTION OF STEPS

QUERY RETRIEVAL: PDSR8Q

.Permanent input file:
-Backup of DSMS 8.0.2 01/02 Database
PRMFL : <&DCI referenced by \$JCLR.DC0> BB

.Output work file:
File IQ

.Sort files:
File S1, S2, S3

MERGE: PDSR8R

.Input work file
File IQ

.Permanent input file:
-Backup of 8.0.2 01/02 DSMS Database
PRMFL : <&DCI referenced by \$JCLR.DC0> BB

.Output Permanent file :
-Backup of retrieved DSMS Database
File B1

CONVERSION OF BACKUP 1.2 TO 2.5 FORMAT: PDSR15

.Permanent input file:
-Backup file of DSMS 1.2 Database
File BB

.Permanent output file:
-Backup of converted DSMS Database
PRMFL : \$UMCU/\$FILU.DSAV(+1) B1

.Output report:
-Printing report
SYSOUT IK

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

20.3. EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DR8Q
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * RETRIEVAL OF 8.0.2 01 OR 02 *
$ NOTE * *
$ NOTE *****
$ SELECT $JCLR.DC0
$ PDSR8Q.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8Q
$ EXECUTE DUMP
$ LIMITS ,20K
$ PRMFL BB,Q,R,&DCI
$ FILE IQ,R1S,100R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PDSR8R.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8R
$ EXECUTE DUMP
$ LIMITS ,30K
$ PRMFL BB,Q,R,&DCI
$ FILE IQ,R1R
$ FILE B1,R5S,200R
$ PDSR15.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR15
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE BB,R5R
$ SELECT $UMCU/$JCL.DC0
$ PRMFL B1,L,R,&DCO
$ SYSOUT IK,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DR8Q - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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21. RETRIEVAL OF DSMS 8.0.2, COMPATIBLE VA PAC 8.0.1

21.1. PRESENTATION

INTRODUCTION

The current release of DSMS is not compatible with VisualAge Pacbase release 8.0.1.

If DSMS 8.0.2 was being used with VA Pac 8.0.1, the installation of the new version of DSMS would require the following operations to be carried out:

1. DSMS Database backup (DSAV).
2. Installation of the new DSMS version
3. Installation of VA Pac version 8.0.2, 1.2 or 1.5.
4. Retrieval of the BB backup file (DR8X procedure).
5. Reorganization of the DSMS Database to rebuild the DX file.
6. DSMS Database restoration.

EXECUTION CONDITIONS

None.

However, to ensure the integrity of the retrieved Database, it is recommended to close the Database to on-line use.

21.2. 'DR8X' PROCEDURE - USER INPUT

USER INPUT

User input allows product codes to be changed. It is composed of 1 to n lines with each line sub-divided into groups of six characters starting from column one.

! POS.!	! LEN.!	! VALUE	! MEANING
! 1 !	! 3 !	! 'PRO'	! Old product code
! 4 !	! 3 !	! 'PRO'	! New product code
! !	! !	! !	! Each group of 6 characters can be
! !	! !	! !	! repeated a maximum of 13 times per
! !	! !	! !	! line.

21.3. 'DR8X' PROCEDURE

DR8X: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

This utility program is found at the beginning of all procedures that include user input.

. Input file:
PRMFL : \$UMCU/\$MB.&PROC MB
(PROC is the procedure code)
. Output file:
File BM

CONVERSION FOR VA PAC 8.0.2: PDSR8X

.Permanent input file:
-Backup of DSMS 8.0.1 Database
PRMFL : <&DCI referenced by \$JCLR.DC0> BB
.Sort files:
File S1, S2, S3
.Input transaction file:
File MB
.Output work files:
-Backup of DSMS Database (Data)
File B1
-Backup of DSMS Database (VA Pac elements)
File B2
.Output report
-Retrieval report
SYSOUT IK

SORT AND CONCATENATION: PDSR8D

.Input work files:
-Backup database (data)
File B1
-Backup database (VA Pac items)
File B2
.Output work file:
-Sauvegarde base triée
File BB
.Sort files:
File S1, S2, S3

CONVERSION OF BACKUP 1.2 TO 2.5 FORMAT: PDSR15

.Permanent input file:
-Backup file of DSMS 1.2 Database
File BB
.Permanent output file:
-Backup of converted DSMS Database

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PRMFL : \$UMCU/\$FILU.DSAV(+1)

B1

.Output report:
-Printing report
SYSOUT

IK

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

21.4. 'DR8X' PROCEDURE - EXECUTION JCL

```

$ IDENT $IDENT,$DEST.DR8X
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * *
$ NOTE * RETRIEVAL OF 8.0.2 CONNECTED TO PACBASE 8.0.1 *
$ NOTE * *
$ NOTE *****
$ SELECT $JCLR.DC0
$ PTU001.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PTU001
$ EXECUTE DUMP
$ LIMITS ,13K
$ PRMFL MB,R,S,$UMCU/$MB.DR8X
$ FILE BM,C1S,1R
$ PDSR8X.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8X
$ EXECUTE DUMP
$ LIMITS ,46K
$ PRMFL BB,Q,R,&DCI
$ FILE MB,C1R
$ FILE B1,R5S,200R
$ FILE B2,R6S,200R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ SYSOUT IK,ORG
$ PDSR8D.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR8D
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE B1,R5R
$ FILE B2,R6R
$ FILE BB,R7S,200R
$ FILE S1,,200R
$ FILE S2,,200R
$ FILE S3,,200R
$ PDSR15.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR15
$ EXECUTE DUMP
$ LIMITS ,20K
$ FILE BB,R7R
$ SELECT $UMCU/$JCL.DC0
$ PRMFL B1,L,R,&DCO
$ SYSOUT IK,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DR8X - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB

```

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22. RETRIEVAL OF DSMS 1.2 --> DSMS 2.5

22.1. INTRODUCTION

OPERATIONS TO CARRY OUT

The retrieval of a DSMS 1.2 database and its adaptation to the new release requires the following operations:

- . 1.2 archival of the Database (DARC procedure).
- . 1.2 backup of the Database, producing a 1.2 file called BB (DSAV procedure).

Then, with the NEW INSTALLATION, execute the following procedures:

- . Convert the 1.2 (BB) DSMS database backup to the new format (DR15 procedure).
- . Reorganize the back-up in order to rebuild the cross-references (DX file) in the new version format (DREO procedure).
- . Restore the database (DRST procedure).

NOTE:

It is possible to retrieve the sequential version of the journal Rel. 1.2 with the DR5J procedure.

22.2. 'DR15' PROCEDURE - DESCRIPTION OF STEPS

DR15: DESCRIPTION OF STEPS

RETRIEVAL OF DSMS 1.2: PDSR15

.Permanent input file:
-DSMS 1.2 database backup
PRMFL : <&DCI referenced by \$JCLR.DC0> BB

.Permanent output file:
-Retrieved DSMS database backup
PRMFL : \$UMCU/\$FILU.DSAV(+1) B1

.Output report:
-Printing report
SYSOUT IK

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

22.3. 'DR15' PROCEDURE - EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DR15
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * RETRIEVAL OF 1.2 *
$ NOTE * *
$ NOTE *****
$ SELECT $JCLR.DC0
$ PDSR15.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR15
$ EXECUTE DUMP
$ LIMITS ,20K
$ PRMFL BB,Q,R,&DCI
$ SELECT $UMCU/$JCL.DC0
$ PRMFL B1,L,R,&DCO
$ SYSOUT IK,ORG
$ IF 20,ERROR
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DC1,NEWNAM/DCFIL/
MF DC-1,NEWNAM/DC1/
MF DC0,NEWNAM/DC-1/
MF DCFIL,NEWNAM/DC0/
$ END.
$ CONVER
$ DATA IN
***** DR15 - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```


22.4. 'DR5J' PROCEDURE - DESCRIPTION OF STEPS

RETRIEVAL OF JOURNAL FILE: PDSR5J

.Permanent input file:
-Sequential image of journal file, Rel. 1.2
 PRMFL : <&DJI referenced by \$JCLR.DJ0> BB

.Permanent output file:
-Journal retrieved in the 2.5 format
 PRMFL : \$UMCU/\$FILU.DARC(+1) JB

.Output report:
-Printing report
 SYSOUT IK

BACKUP FILE ROTATION

The rotation of the backup files is performed by the 'FILSYS', and involves a sequence of name changes.

22.5. 'DR5J' PROCEDURE - EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DR5J
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * RETRIEVAL OF ARCHIVE JOURNAL 1.2 *
$ NOTE * *
$ NOTE *****
$ SELECT $JCLR.DJ0
$ PDSR5J.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSR5J
$ EXECUTE DUMP
$ LIMITS ,20K
$ PRMFL BJ,Q,R,&DJI
$ SELECT $UMCU/$JCL.DJ0
$ PRMFL JB,L,R,&DJO
$ SYSOUT IK,ORG
$ FILSYS.
$ FILSYS
CPOS $UMCU/$JCL
MF DJ1,NEWNAM/DJFIL/
MF DJ-1,NEWNAM/DJ1/
MF DJ0,NEWNAM/DJ-1/
MF DJFIL,NEWNAM/DJ0/
$ END.
$ CONVER
$ DATA IN
***** DR5J - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```

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23. REPLACEMENT OF LOW-VALUES BY BLANKS 'DLVB'

23.1. DLVB: REPLACEMENT OF LOW-VALUES BY BLANKS

INTRODUCTION

The DLVB procedure inserts a blank wherever a low-value is present in the BB Database backup file.

The purpose of this procedure is to make possible the transfer of the BB file onto different platforms, while avoiding problems due to the presence of low-values at the time of transfer.

Utilization option

The DLVB procedure gives the user the opportunity to produce a transfer file containing only the 'data'-type records (refer to next subchapter).

In this case, the backup file obtained on the target platform after transfer will have to be reorganized (DREO procedure) in order to rebuild the cross-references (DX file).

EXECUTION CONDITIONS

None

23.2. DLVB: PARAMETERS-DESCRIPTION OF STEPS

DLVB: DESCRIPTION OF STEPS

REPLACEMENT OF LOW-VALUES WITH BLANKS: PDSLVB

.Input transaction file:
-User transaction
DATA I*
The DATA I* card, followed by a 'DATA' parameter card,
allows you to specify that you want to keep only DATA
RECORDS in the output file.
To keep the INDEX and DATA RECORDS, do not specify
anything.

.Input file:
-Database backup
PRMFL : \$UMCU/\$FILU.DSAV(0) BB

.Output file:
-New Database backup
PRMFL : \$UMCU/\$MV.DLVB B1

23.3. DLVB: EXECUTION JCL

```
$ IDENT $IDENT,$DEST.DLVB
$ NOTE *****
$ NOTE * DSMS *
$ NOTE * ==== *
$ NOTE * *
$ NOTE * CHANGE LOW VALUE CHARACTERS INTO BLANK CHARACTERS *
$ NOTE * IN DSMS DATABASE BACKUP *
$ NOTE * *
$ NOTE * USER INPUT *
$ NOTE * *
$ NOTE * COL 1-4 - 'DATA' TO SAVE DATA ONLY *
$ NOTE * *
$ NOTE *****
$ SELECT $UMCU/$JCL.DCO
$ FC DLVB.
$ FILSYS
$ IGNORE ERRS
FC $UMCU/$MV.DLVB,LLINKS/3000,60000/
$ PDSLVB.
$ OPTION CBL74
$ SELECT $UMCS/$OBJBT.PDSLVB
$ EXECUTE DUMP
$ LIMITS ,30K
$ DATA I*
$ PRMFL BB,R,R,&DCI
$ PRMFL B1,W,S,$UMCU/$MV.DLVB
$ IF 20,ERROR
$ END.
$ CONVER
$ DATA IN
***** DLVB - NORMAL END OF RUN *****
$ SYSOUT OT,ORG
$ OUTPUT MEDIA/03
$ ERROR.
$ ENDJOB
```