VisualAge Pacbase 2.5

VA PAC 2.5 – BULL GCOS8
OPERATIONS MANUAL VOLUME I : ENVIRONMENT & INSTALLATION

DEPD8001251A

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1. FOREWORD

FOREWORD

HOW TO USE THIS MANUAL

This manual is intended to readers in charge of installing VisualAge Pacbase.

It describes its COMPONENTS and ENVIRONMENT, lays out recommendations for the INSTALLATION of the new release, and explains the operations to be performed for a standard RE-INSTALLATION of correction versions.

USERS OF PREVIOUS RELEASES

It is generally recommended to install the new release in an environment distinct from that of any earlier release, particularly as far as the installation parameters are concerned. To complete the new installation, the set of tests provided on the installation media must be run.

VisualAge Pacbase releases older than 8.02v02

Contact your Help Desk.

VisualAge Pacbase 8.02v02, 1.2, 1.5, 1.6, 2.0

In this case, the new release may be installed in the same environment as the older release. In this case, refer to Chapter "RETRIEVAL FROM VA Pac 8.02v02, 1.2, 1.6", or Subchapter "RETRIEVAL FROM VA Pac 2.0" or Subchapter "RETRIEVAL FROM VA Pac 8.02v02, 1.2, 1.5, 1.6".

UTILIZATION OF COBOL-85 IN THE PACX PROCEDURE

Several VA Pac Database extraction procedures are now grouped into one procedure called PACX.

PACX operates like GPRT, i.e. a monitor calls the various programs necessary for the execution of an extraction request.

The number of programs implemented is such that executing this procedure in a COBOL-74 environment would require splitting it into modules --as in GPRT-- which would be contrary to the goal looked for.

The PACX procedure was therefore developped in COBOL-85 using dynamic CALLs.

2. VISUALAGE PACBASE COMPONENTS

2.1. INTRODUCTION

INTRODUCTION

One of the goals of the VisualAge Pacbase system is to manage permanent data in either batch or on-line mode, by using two types of resources:

LIBRARIES which store the system programs, and the parameters needed to run them:

- One On-Line Program library,
- One Batch Program library,
- One System Parameter library,
- One Parameter library for each VisualAge Pacbase Database
- One library for the batch procedure's JCLs.

PERMANENT FILES, containing the data handled by the system programs. These files can be classified into two categories:

. 'System' files, which are not linked to a particuliar VisualAge Pacbase database and remain relatively unchanged,

. 'Evolving' files, which are associated to a VisualAge Pacbase Database, and whose volumes vary according to the updates performed.

NOTES:

The WorkStation, DSMS, revamped DSMS, Pacbase Web Connection, and Pactables Functions are installed independently of the other VisualAge Pacbase functions.

The VisualAge Pacbase-ENDEVOR Interface must also be installed independently of all other functions.

The installation and operation of these Functions and Facilities are described in the operations manuals specific to each one.

2.2. VISUALAGE PACBASE SYSTEM PARAMETERS

VISUALAGE PACBASE SYSTEM PARAMETERS

The JCL lines supplied at installation include parameters which allow the VA Pac System to comply with the codification rules that apply on-site. Also, parameters are used to assign files to the different disks in use at the site. Furthermore, to adapt procedures to different GCOS8 releases, some parameters with values already assigned are taken into account automatically at installation (see Chapter 'INSTALLATION JCL' for these procedures).

A complete list of parameters is found on the next page.

Parameters are formatted as follows: '$XXXXXX'. The '$' sign is used in order to locate parameters in JCL modules' names. 'XXXXXX' is the parameter code. A period '.' is used as a separator each time a parameter is followed by a character string.

Program libraries and files are referred to by their parameterized names.

NOTE

Standard installation parameters are listed in the chart below.

If you wish to place the database or any other files on different disks, you can assign different UMC's by creating new parameters as follows:

```
      PARAMETER              VALUE

1:  $UMCB/$BASE.AN  -----> UMC1/CAT1/AN
2:  $UMCB/$BASE.AR  -----> UMC2/CAT2/AR
3:  $BASE.          -----> CAT3/
```

All database files are thus in the CAT3 catalog, except for the AN file which is cataloged in UMC1/CAT1 and the AR file which is cataloged in UMC2/CAT2. New parameters must be entered as described in the above chart.

PARAMETER CHART

CODE	MEANING	DEFAULT
BASE.	PREFIX OF THE VA PAC DATABASE FILES	PAC/BAS
BASD.	PREFIX OF THE DSMS FILES	DSM/BAS
BDE	=O --> BACKUP ON TAPE =N --> BACKUP ON DISK	N
DEST.	SECOND PART OF THE '$ IDENT' CARD	CGI-INST
FIL8.	PREFIX OF THE TP8 SYSTEM FILES	PAC/TP8/
FIL8	SAME AS ABOVE FOR THE LAST CATALOG	PAC/TP8
FILG.	PREFIX OF THE GENERATED FILES	PAC/GEN/
FILG	SAME AS ABOVE FOR THE LAST CATALOG	PAC/GEN
FILS.	PREFIX OF THE SYSTEM FILES	PAC/SYS/
FILT.	PREFIX OF THE TDS FILES	PAC/TP4/
FILU.	PREFIX OF THE USER FILES	PAC/FIL/
FILU	SAME AS ABOVE FOR THE LAST CATALOG	PAC/FIL
FILX.	PREFIX OF THE PAF-PDM FILES	PAC/FIL/
FILX	SAME AS ABOVE FOR THE LAST CATALOG	PAC/FIL
GDP	=74 -> USE OF PDM ALONE =85 -> USE OF PDM WITH MASTER OUTLINE	85
SCR.	PREFIX OF THE SOURCE OF USER EXTRACTION PROGRAMS AND MACRO COMMANDS	SRC/
074.	PREFIX OF OBJECTS (IN COBOL 74) IN USER EXTRACTION PROGRAMS	OB74/

PARAMETER CHART (CONTINUED)

CODE	MEANING	DEFAULT VALUE
O85.	PREFIX OF OBJECTS (IN COBOL 85) IN USER EXTRACTION PROGRAMS	OB85/
EXT.	PREFIX OF FILES FROM USER EXTRACTION PROGRAMS	EXTR/
RUNM.	PREFIX OF THE RUN-UNIT FOR PAF-PDM MACRO COMMANDS	RUNM/
RUNX.	PREFIX OF THE RUN-UNIT FOR USER EXTRACTION PROGRAMS	RUNX/
HSTAR.	PREFIX OF THE LINK GPRT FILES	PAC/HST/
IDENT	FIRST PART OF THE '$ IDENT' CARD	ABCD1234
JCL.	JCL PROCEDURES PREFIX	PAC/JCL/
JCL	SAME AS ABOVE FOR THE LAST CATALOG	PAC/JCL
LANG	LANGUAGE CODE : 'F' = FRENCH 'E' = ENGLISH	F
MB.	PREFIX OF USER INPUT FILES	PAC/FIL/MB
MV.	PREFIX OF EXTRACTION OUTPUT FILES	PAC/FIL/MV
OBJBT.	PREFIX OF THE BATCH PROGRAMS	PAC/BOBJ/
OBJTP.	PREFIX OF THE ON-LINE PROGRAMS	PAC/TOBJ/
OBJ85.	PREFIX OF THE COBOL-85 SUB-PROGRAMS	PAC/OBJ85/
BOB85.	PREFIX OF THE PAF-PDM program, PAC/IMPACT and PACX procedures. (MUST BE DIFFERENT FROM OBJ85.)	PAC/BOB85/

PARAMETER CHART (CONTINUED)

CODE	MEANING	DEFAULT
RUNS.	PREFIX OF THE RUN-UNIT SYSTEMS FOR THE GPRT (PDM SUB-ROUTINES), PACX PROCEDURES AND PAC/IMPACT MODULE	PAC/RUNS/
SCHEMA.	PREFIX OF THE SCHEMA AND SUB-SCHEMAS FILES	PAC/SCH/
SOURCE.	MISCELLANEOUS SOURCES (DMCL, SYSGEN,...)	PAC/SRC/
TDS	NAME FOR THE ON-LINE CONNECTION	CGITP
UMCBD	NAME OF THE UMC OF THE DSMS DATABASE FILES	DSMS
UMCB	NAME OF THE UMC OF THE VA PAC DATABASE FILES	PACB
UMCI	NAME OF THE RESTORATION UMC	PACB
UMCS	NAME OF THE SYSTEM FILE UMC	PACB
UMCT	NAME OF THE TDS FILE UMC	PACB
UMCU	NAME OF THE USER FILE UMC	PACB
PWB	$UMCB UMC PASSWORD	$CGI
PWS	$UMCS UMC PASSWORD	$CGI
PWT	$UMCT UMC PASSWORD	$CGI
PWU	$UMCU UMC PASSWORD	$CGI
USER	DEFAULT VALUE FOR THE USER'S CODE IN THE GPRT PROCEDURE	USER
RMTA	WORKSTATION CODE FOR ASCII PRINT	XX
RMTB	WORKSTATION CODE FOR BCD PRINT	ORG

PARAMETERS SPECIFIC TO THE TP8 ENVIRONMENT

CODE	MEANING	DEFAULT VALUE
TP8	=O -> TP8 =N -> DMIV-TP	O
NODE	NAME OF THE NODE OF THE TP8 VA PAC WORKSTATION	ABCD
TQN	NAME OF THE COMMUNICATIONS WORK-STATION (TQ)	TQ
PBN	NAME OF THE TP8 VA PAC WORKSTATION	PC
VIPMB	NAME OF THE COMMUNICATIONS MAILBOX FOR VIP TERMINALS	MBXVIP
TTYMB	NAME OF THE COMMUNICATIONS MAILBOX FOR TTY TERMINALS	MBXTTY
PBMB	NAME OF THE COMMUNICATIONS MAILBOX OF THE VA PAC WORKSTATION	PCMX

PARAMETERS SPECIFIC TO RETRIEVAL

CODE	MEANING	DEFAULT VALUE
OLDPJ	String of the archive backup to be retrieved	OLDPAC/ARCH0
OLDPE	String of the Production Environ- ment backup to be retrieved	OLDPAC/SVPE0
OLDPG	String of the Generation-print request backup to be retrieved	OLDPAC/SVAG0

CHART OF PARAMETERIZED FILES

In order to set parameter values and to see how they affect the names of the VA Pac System files, the following charts list all files sorted by the first parameter in the external name.

SYSTEM FILES

BEFORE PARAMETERIZATION	WITH DEFAULT VALUES
$UMCS/$FILS.AE0	PACB/PAC/SYS/AE0
$UMCS/$OBJBT.pppppp	PACB/PAC/BOBJ/pppppp (*)
$UMCS/$OBJTP.pppppp	PACB/PAC/TOBJ/pppppp (*)
$UMCS/$OBJ85.pppppp	PACB/PAC/OBJ85/pppppp (*)
$UMCS/$BOB85.pppppp	PACB/PAC/BOB85/pppppp (*)
$UMCS/$RUNS.pppppp	PACB/PAC/RUNS/pppppp (*)
$UMCS/$FILS.SF	PACB/PAC/SYS/SF
$UMCS/$FILS.QC	PACB/PAC/SYS/QC
$UMCS/$FILS.YC	PACB/PAC/SYS/YC
$UMCS/$FILS.QG	PACB/PAC/SYS/QG
$UMCS/$FILS.YG	PACB/PAC/SYS/YG
$UMCS/$FILS.QP	PACB/PAC/SYS/QP
$UMCS/$FILS.YP	PACB/PAC/SYS/YP
$UMCS/$FILS.QR	PACB/PAC/SYS/QR
$UMCS/$FILS.YR	PACB/PAC/SYS/YR
$UMCS/$FILS.QS	PACB/PAC/SYS/QS
$UMCS/$FILS.XS	PACB/PAC/SYS/XS

(*) pppppp = name of the program

BATCH USER FILES

BEFORE PARAMETERIZATION	WITH DEFAULT VALUES	
$UMCU/$MB.mmmm	PACB/PAC/FIL/MBmmmm	(*)
$UMCU/$MV.mmmm	PACB/PAC/FIL/MVmmmm	(*)
$UMCU/$FILU.SAVEn	PACB/PAC/FIL/SAVEn	
$UMCU/$FILU.ARCHn	PACB/PAC/FIL/ARCHn	
$UMCU/$FILU.SVAGn	PACB/PAC/FIL/SVAGn	
$UMCU/$FILU.SVPEn	PACB/PAC/FIL/SVPEn	
$UMCU/$FILU.PARMn	PACB/PAC/FIL/PARMn	
$UMCU/$FILU.ARCHPQ	PACB/PAC/FIL/ARCHPQ	
$UMCU/$FILG.gg&USER	PACB/PAC/GEN/gg&USER	(**)

(*) mmmm = Name of the procedure (e.g. REOR)
(**) gg = File-code of the generated file (e.g. GP)

DATABASE FILES

BEFORE PARAMETERIZATION	WITH DEFAULT VALUES
$UMCB/$BASE.AE	PACB/PAC/BAS/AE
$UMCB/$BASE.XE	PACB/PAC/BAS/XE
$UMCB/$BASE.AR	PACB/PAC/BAS/AR
$UMCB/$BASE.BR	PACB/PAC/BAS/BR
$UMCB/$BASE.AN	PACB/PAC/BAS/AN
$UMCB/$BASE.BN	PACB/PAC/BAS/BN
$UMCB/$BASE.AG	PACB/PAC/BAS/AG
$UMCB/$BASE.XG	PACB/PAC/BAS/XG
$UMCB/$BASE.AJ	PACB/PAC/BAS/AJ
$UMCB/$BASE.AB	PACB/PAC/BAS/AB
$UMCB/$BASE.XB	PACB/PAC/BAS/XB
$UMCB/$BASE.AC	PACB/PAC/BAS/AC
$UMCB/$BASE.XC	PACB/PAC/BAS/XC
$UMCB/$BASE.AP	PACB/PAC/BAS/AP
$UMCB/$BASE.XP	PACB/PAC/BAS/XP
$UMCB/$BASE.AT	PACB/PAC/BAS/AT
$UMCBD/$BASD.DA	DSMS/DSM/BAS/DA
$UMCBD/$BASD.AD	DSMS/DSM/BAS/AD
$UMCBD/$BASD.DC	DSMS/DSM/BAS/DC
$UMCBD/$BASD.CD	DSMS/DSM/BAS/CD
$UMCBD/$BASD.DE	DSMS/DSM/BAS/DE
$UMCBD/$BASD.ED	DSMS/DSM/BAS/ED
$UMCBD/$BASD.DH	DSMS/DSM/BAS/DH
$UMCBD/$BASD.DJ	DSMS/DSM/BAS/DJ
$UMCBD/$BASD.DX	DSMS/DSM/BAS/DX
$UMCS/$SCHEMA.1STAR	PACB/PAC/SCH/1STAR
$UMCS/$SCHEMA.CSTARPA	PACB/PAC/SCH/CSTARPA
$UMCS/$SCHEMA.CSTARPB	PACB/PAC/SCH/CSTARPB
$UMCS/$SCHEMA.CSTARPE	PACB/PAC/SCH/CSTARPE
$UMCS/$SCHEMA.CSTARPG	PACB/PAC/SCH/CSTARPG
$UMCS/$SCHEMA.CSTARPM	PACB/PAC/SCH/CSTARPM
$UMCS/$SCHEMA.CSTARPT	PACB/PAC/SCH/CSTARPT
$UMCS/$SCHEMA.CSTARSG	PACB/PAC/SCH/CSTARSG
$UMCS/$SCHEMA.SSPA	PACB/PAC/SCH/SSPA
$UMCS/$SCHEMA.SSPB	PACB/PAC/SCH/SSPB
$UMCS/$SCHEMA.SSPE	PACB/PAC/SCH/SSPE
$UMCS/$SCHEMA.SSPG	PACB/PAC/SCH/SSPG
$UMCS/$SCHEMA.SSPM	PACB/PAC/SCH/SSPM
$UMCS/$SCHEMA.SSPT	PACB/PAC/SCH/SSPT
$UMCS/$SCHEMA.SSSG	PACB/PAC/SCH/SSSG

2.3. CODES OF FUNCTIONS, EXTENSIONS, UTILITIES

CODES OF FUNCTIONS, EXTENSIONS AND UTILITIES

The following lists provide abbreviated codes for system functions, extensions, and optional utilities:

```
.Specifications Dictionary                = DIC

.Extensions:

   -Personalized Documentation Manager    = PDM
   -Security Systems Interface            = SEC

.Optional Utilities:

   -Sub-Network Comparison Utility        = LCU
   -Rename/Move Entity Utility            = RME
   -Journal Statistics Utility            = ACT

.Functions/Facilities:

   -Structured Code                       = SC
   -Batch Systems Development             = BSD
   -COBOL Generator                       = COB
   -On-Line Systems Development           = OSD
   -Pacbench Client/Server                = OCS
   -DBD                                   = DBD
   -DBD/ Relational SQL                   = SQL
   -Pactables                             = TAB
   -Development & Support Management System
    (DSMS)                                = DSM
   -Production Environment Interface      = PEI
   -Dictionary Extensibility              = DEX
   -Pac/Transfer                          = TRF
   -VA Smalltalk / VA Pac Bridge          = VIS
   -VA Pac / TeamConnection Bridge        = PTC
   -Year 2000 Impact Analysis             = S2K
   -Pacbench Quality Control              = PQC
   -The WorkStation                       = WST
   -Pacbase Access Facility               = PAF
   -PacReverse                            = REV
   -Pacbase Web Connection                = PAW
```

2.4. ON-LINE PROGRAM CATALOG

ON-LINE PROGRAMS CATALOG

$UMCS/$OBJTP - Size: approximately 8,000 llinks.
Depending on which functions, extensions, or optional utilities are available at the site, the $UMCS/$OBJTP catalog includes the following programs:

PROGRAM CODE	FUNCTION/EXTENSION OPTIONAL UTILITY	CORRESPONDING CHOICE COMMENTS
		PARM/PEI TRANSACTION :
ZAPAA0	DIC	First and last TPR
ZAPA00	-	.Initial screen
ZAPA01	-	H
ZAPA10	-	HP
ZAPA11	-	LCPC..
ZAPA12	-	PC.
ZAPA13	-	PT.
ZAPA14	-	PE.
ZAPA15	-	PU........
ZAPA16	-	PK
ZAPA17	-	PD
ZAPA18	-	LCPU........
ZAPA19	-	PW.
ZAPA21	-	PM..
ZAPA22	-	LCPM..
ZAPA30	PEI	HE
ZAPA31	-	EE......
ZAPA32	-	EG............
ZAPA33	-	ES....
ZAPA34	-	LSEP............
ZAPA35	-	ED........
ZAPBND	DIC	.ABORT map
ZAPHLP	-	.Help
		VA PAC TRANSACTION:
ZAQAA0	DIC	First and last TPR
ZAQA00	-	D..
ZAQB00	BSD	R...
ZAQCHX	DIC	Choice processing
ZAQC00	-	E......
ZAQC01	-	LUE
ZAQC50	WST	++5 (Up/Dw mapping)
ZAQD00	SC	P......B and O......B
ZAQE00	DIC	E......D
ZAQF00	COB	P......SC
ZAQF10	-	P......STR
ZAQG00	DIC	K......

PROGRAM CODE	FUNCTION/EXTENSION OPTIONAL UTILITY	CORRESPONDING CHOICE COMMENTS
ZAQH00	OSD	O......
ZAQH01	DIC	LA, LC, LE, LF, LM, LN, LP, LS, LT, and LX
ZAQH20	OSD	O......CS
ZAQH30	-	O......O
ZAQI00	-	O......L
ZAQI01	OSD	O......CE (C1)
ZAQI02	-	O......CE (C2)
ZAQI03	-	O......SIM
ZAQI04	-	O......ADR
ZAQI05	-	O......CE (C3)
ZAQI20	-	O......M
ZAQI21	-	O......M
ZAQI50	WST	++4 (Up/Dw Screen Data El.)
ZAQK10	DA	M......
ZAQK20	-	M......CM
ZAQK30	-	M......CE
ZAQL10	SQL	B......
ZAQL20	-	B......DH
ZAQL21	-	B......DT
ZAQL30	-	B......DC
ZAQL40	-	B......DR...
ZAQL41	-	B......K...
ZAQL45	-	B......GEN
ZAQL46	-	
ZAQM00	SC	P......CP and O......CP
ZAQP00	-	P......P and O......P
ZAQP01	-	display -TC (Batch program)
ZAQP02	-	display -TC (On-line pgm)
ZAQP03	-	P......TC and O......TC
ZAQP04	-	P......TO
ZAQP05	-	O......TO
ZAQP06	-	P......PG and O......PG
ZAQP07	-	O......PG
ZAQP08	-	P......PG
ZAQP50	WST	++6 (Up/Dw Specific Codes)
ZAQR00	DIC	LL........L_......
ZAQRYA	TP8	READY TPR (TP8)
ZAQRYE	-	- - -
ZAQRYG	-	- - -
ZAQRYM	-	- - -
ZAQRYT	-	- - -
DSRYSG	-	- - -
ZAQS02	DIC	-XP
ZAQS03	-	-ACT

PROGRAM CODE	FUNCTION/EXTENSION OPTIONAL UTILITY	CORRESPONDING CHOICE COMMENTS
ZAQS04	DIC	WS
ZAQS05	-	?
ZAQS06	-	MENUS
ZAQS08	DEX	-XQ
ZAQT00	DIC	T......D
ZAQT10	-	T......
ZAQT20	PDM	T......SIM
ZAQT50	WST	++2 (Up/Dw Texts)
ZAQU00	DIC	U..
ZAQU01	-	U..D
ZAQU10	PDM	V......
ZAQU20	-	V......D
ZAQV10	DIC	I......
ZAQV20	-	I......D
ZAQV30	-	-G
ZAQX00	-	*
ZAQX01	-	LH
ZAQY01	DEX	F......
ZAQY02	-	F......CE
ZAQY03	-	$ ....
ZAQY04	-	$ ....D
ZAQY05	-	Q......
ZAQY10	WST	++1 (WorkStat. Entity Upl.)
ZAQY11	-	++3 (WorkStat. Entity Dwl.)
ZAQY20	DIC	GP
ZAQY30	-	JO
ZAQZ00	-	VA Pac initial screen
ZAQ000	SC	P......
ZAQ100	-	P......CD
ZAQ101	-	P......HCD
ZAQ102	-	-
ZAQ103	-	-
ZAQ104	-	-
ZAQ200	DIC	S....
ZAQ210	TAB	S....SS
ZAQ300	DIC	S....CE
ZAQ400	BSD	R...L
ZAQ500	-	R...D
ZAQ600	-	R...CE
ZAQ700	SC	P......W and O......W
ZAQ800	-	P......8
ZAQ900	-	P......9
ZAQ990	DIC	Message Management
ZAR500	-	ABORT Map
ZAR600	-	Text Editing

2.5. BATCH PROGRAM CATALOG

BATCH PROGRAM CATALOG

$UMCS/$OBJBT - Size: approximately 15,000 llinks.

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
PACA05	UPDT	DIC	
PACA10	GPRT	-	
PACA15	UPDT REST RESY	-	
	UPDP	PAF	
PACA20	GPRT	-	
PACBA	-	-	
PACBB	-	-	
PACBD	-	-	
PACBE	-	-	
PACBG	-	-	
PACBK	-	-	
PACBL	-	-	
PACBM	-	-	
PACBN	-	-	
PACBP	-	-	
PACBQ	-	-	
PACBR	-	-	
PACBV	-	-	
PACBED	-	-	
PACB30	-	-	
PACB40	-	DBD	
PACB80	-	-	
PACC30	-	COB	
PACC40	-	-	
PACC80	-	-	
PTUADR	XPAF	PAF	
PTUBAS	SAVE UPDT SASY	DIC	control the database integrity
PACD80	-	-	
PACD90	-	-	
PACE30	-	OSD	
PACE40	-	-	
PACE80	-	-	
PACG3C	-	OCS	
PACG3S	-	-	
PACG4S	-	-	
PTUCSS	CSES	-	session nb compression
PTUESS	ESES	-	session nb extraction
PTUG05	TRJC	TRF	Pac/transfer module
PTUG06	-	-	

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
PTUG07	-	-	
PTUG10	TRUP		
PACG8C	-	-	
PACG8S	-	-	
PACINS	VINS	DIC	
PACK30	GPRT	OCS	
PACK80	-	-	
PACK90	-	-	
PACLTA	-	SC	
PACL30	-	-	
PACL40	-	-	
PACL80	-	-	
PACL90	-	-	
PACL92	EMUP	-	
PACL93	EMLD	-	
PACM30	GPRT	DIC	
PACM80	-	-	
PACN30	-	PDM	
PACNT3	-	-	
PACN40	-	-	
PACN50	-	-	
PACN80	-	-	
PACP30	-	SC	
PACP40	-	-	
PACP80	-	-	
PACP92	-	-	
PACQ30	-	SQL	
PACQ	PQCA	PQC	
PACR01	INPE	PEI	
PACR10	PRPE	-	
PACR20	GPRT	-	
PACR22	SIPE	-	
PACR30	HIPE	-	
PACR40	GRPE	-	
PACR60	SVPE	-	
PACR61	RSPE	-	
PACT40	GETD	TAB	
PACT41	GET1 GET2	-	
PACT45	GETD	-	
PACT50	-	-	
PACT51	GET2	-	
PACTI1	GET0	-	
PACTIN	GETI	-	
PACU15	PARM	DIC	

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
PACU80	- LOAE	-	
PACU99	CRYP	-	
PADM10	SADM	DES	
PAF900	UPDP	PAF	PAF update input
PAFP10	PPAF	-	PAF preprocessor
PDS600	DEXP	DSM	DEXP < 2.0
PDS610	-	-	- -
PTATDM	SMTD	TAB	TD migration backup
PTATDR	RMTD	-	TD migration restorat.
PTED30	XPDM	PDM	Master Outline
PTED60	-	-	- -
PTEP90	PRGS	-	- -
PTEX30	XPAF	PAF	Extraction Master Path
PTEX31	-	-	- -
PTEX80	-	-	- -
PTEXD0	-	-	- -
PTU001		DIC	Any proc. with input
PTU004	REST REAG	-	User code check
PTU100	MLIB	-	
PTU120	-	-	
PTU130	SASN	LCU	
PTU140	-	-	
PTU200	REOR	DIC	
PTU208	-	-	
PTU210	-	-	
PTU220	-	-	
PTU240	-	-	
PTU300	ARCH	-	
PTU320	-	-	
PTU380	REST RESY	-	
PTU400	-	-	
PTU402	RESY	-	
PTU420	REST RESY	-	
PTU500	SAVE	-	
PTU550	SVAG	-	
PTU560	REAG	-	
PTU630	ACTI	ACT	
PTU640	-	-	
PTU810	EMSN	LCU	
PTU815	MESN	-	
PTU850	CPSN	-	
PTU855	-	-	

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
PTUADR	XPAF	PAF	
PTUBAS	SAVE UPDT SASY	DIC	DBase integrity check
PTUCSS	CSES	-	Session nb compression
PTUESS	ESES	-	Session nb extraction
PTUG05	TRJC	TRF	Pac/Transfer
PTUG06	-	-	- -
PTUG07	-	-	- -
PTUG10	TRUP	-	- -
PTUG11	-	-	- -
PTUG12	-	-	- -
PTUG42	TRDU	-	- -
PTUG44	-	-	- -
PTUG46	-	-	- -
PTUG50	TRPF	-	- -
PTUG60	TRRP	-	- -
PTUG61	-	-	- -
PTULOI	RTLO	-	Locked ent. retrieval
PTULVB	LVBL	-	Replac. low values with blanks
PTUPIL	GPRT	DIC	
PTUQ10	PQCE	PQC	
PTUQ15	-	-	
PTUQ20	PQCA	-	
PTUQ30	-	-	
PTUQ40	-	-	
PTUQ50	-	-	
PVA100	VDWN	VIS	
PVA110	-	-	
PVA300	VUP1	-	
PVA310	-	-	
PVA320	VUP2	-	
PVA400	VPUR	-	
PYSMC2	YSMC	YSM	YSM integrity check
PYSMC3	-	-	
PYSMCC	-	-	
UTI110			Installation
UTI120	GPRT	DIC	Print utility
UTI130	INID	-	DSMS initialization
UTIXSR	UXSR	-	

OLDER-VERSION RETRIEVAL PROGRAMS

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
REP2PJ	RTPJ	DIC	
PACR90	RTPE	PEI	
PTU908	RPPG	DIC	

2.6. COBOL-85 BATCH PROGRAM CATALOG

COBOL-85 BATCH PROGRAM CATALOG

$UMCS/$BOB85 - Size: approximately 2,000 llinks.
It contains the following programs:

CODE	PROCEDURE(S)	PRODUCT/ FUNCTION	COMMENTS
PACA90	GPRT PACX	DIC	
PACABE	- -	-	
PACBN	-	PDM	
PACCTL	PACX	DIC	
PACFGY	-	-	
PACFMB	-	-	
PACFTD	-	-	
PACHOI	-	-	
PACN25	GPRT	PDM	
PACN30	-	-	
PACN40	-	-	
PACN50	-	-	
PACN80	-	-	
PACN90	-	-	
PACNT3	-	-	
PACS30	PACX	DIC	
PACS40	-	-	
PACS50	-	-	
PACS60	-	-	
PACS75	-	-	
PACS80	-	-	
PACSJO	-	-	
PACSMD	-	-	
PACSPU	-	-	
PACSRM	-	-	
PACX	-	-	
PAN200	INFQ	S2K	
PAN205	INFP	-	
PAN210	ISEP	-	
PAN212	ISOS	-	
PAN215	ISEP IANA	-	
PAN220	IPFQ - IPEP	-	
PAN230	IANA	-	
PAN240	IPFQ	-	
PAN250	IANA	-	
PAN255	IGRA	-	

CODE	PROCEDURE(S)	PRODUCT/FUNCTION	COMMENTS
PAN260	IANA ISOS	-	
PAN270	IPIA	-	
PAN280	-	-	
PANFQI	IANA	-	
PANFQS	-	-	
PBBTST	GPRT	PAF	
PTUJOB	XPAF	PAF	
SPABPB	GPRT	DIC	

2.7. SUB-ROUTINE CATALOG

SUB-ROUTINE CATALOG

$UMCS/$FILS.OBJLIB - Size: approximately 700 llinks. It contains the following subroutines:

SUB-PROGRAMS			COMMENTS
BATCH PROCESSING			
PACABE		DIC	All procedures (ABORT)
PACA90	GPRT UPDT REST	-	
PACF10	GPRT	-	COBOL formatting
PACN90	-	-	
PACSEP	- UPDT REST	-	
PBBTST	PAF	PAF	VA Pac access via PAF
PBBTWS	-	-	
SIABBA	INID	DSM	DSMS initialization
SPABLO	REST	DIC	VA Pac access
SPABPB		-	
SPAFPA	PAF	PAF	PAF access (PA, YA)
ON-LINE PROCESSING			
ZAR100			Decoding of Choice field
ZAR200			Format conversion
ZAR400			N*... or NH.....
ZAR980			Message management
ZARS12			Relational Catalog update
PBTPST			VA pac access via PAF
PBTPWS			"
SPABPA			"
SPABPE			VA Pac access
SPABPG			"
SPABPM			"
SPABPT			"

2.8. OTHER CATALOGS

OTHER CATALOGS

CATALOG OF SOURCES: $UMCS/$SOURCE

Its size is approximately 1100 llinks.

The $UMCS/$SOURCE catalog includes the sources of the SYSGEN, the Workstations required under TP8, the DMCL, the conversation beginning/ending TPRs, the opening TPRs of IDS2 AREAS in the TP8 environment and the sources of the error message management sub-routines for the multi-screen dialog variant.

CATALOG OF SCHEMAS: $UMCS/$SCHEMA

Its size is approximately 540 llinks.

The $UMCS/$SCHEMA catalog includes the schema (1*) and the sub-schemas (C*, 6*) of the new VA Pac release.

CATALOG OF JCL: $UMCU/$JCL

Its size is approximately 1,000 llinks.

The $UMCU/$JCL catalog includes the JCL for all VA Pac procedures.

OPERATION JCLs

PROCEDURE	CONTENTS
ACTI	Journal statistics
ADRU	add_ru directives for PAF-PDM
ADRUI	add_ru directives for Pac/Impact
ARCH	Transaction archiving
ATIN	Physical initialization of AT area
CONN	PEI DMIV-TP parameterization
CONO	PEI TP8 Parameterization
CPSN	Sub-network comparison
CRYP	Password encryption-decryption
CSES	Session number compression
DHIN	Physical initialization of DH area
DRVR	GPRT monitor stream pilot
EMLD	User-defined error message loading
EMONI	End of process on a GPRT monitor
EMSN	Sub-network extraction for merge
EMUP	User-defined error message update
ESES	Session number extraction
GDP74	COBOL-74 generation of manuals
GDP85	COBOL-85 generation of manuals
GETD	Table-description generation
GETI	Table-description generation
GPRT	Generation-Print
GPRB	-
GPRE	-
GRPE	Transaction generation for reorganization
HIPE	Automatic session freeze
IANA	Impact analysis
IGRA	Group fields analysis
INAT	Physical initialization of AT area
INFO	Initialization of FO file
INFP	Initialization of FP file
INFQ	Initialization of FQ file
INPE	Initialization of PEI files
INPUT	Generation-print requests
INPUT1	Entities to be analyzed
INPUT2	Selection parameters (PQC)
IPEP	Entry-point printing
IPFQ	Impacted-criteria printing
IPIA	Impact analysis results
ISEP	Entry-point selection
ISOS	String and operator selection
LOAE	Restoration of parameter files
LVBL	Replacement of low-values with spaces

PROCEDURE	CONTENTS
MESN	Sub-network merge
MLIB	Database management
PACBA	GPRT: Taking requests into account
PACBB	- Database generation
PACBD	- Data generation
PACBE	- Dialog generation
PACBED	- Documentation printing
PACBG	- Client generation
PACBK	- C/S error-message generation
PACBKL	- C/S error-message shift
PACBL	- V7 error-message generation
PACBLH	- PAW revamping process
PACBLL	- V7 error-message shift
PACBM	- U manuals
PACBN	- Personalized documentation printing
PACBP	- Batch generation
PACBQ	- SQL database generation
PACBR	- Pacreverse generation
PACBV	- Server generation
PAF	PAF preprocessor for generation-print
PAFB	PAF preprocessor start
PAFE	PAF preprocessor end
PAFX	COBOL-74 generalized extractor
PAFX74	COBOL-85 generalized extractor
PAFX85	Generalized extractor
PARM	User parameter update
PGPRT	Generation-print parameterization
PPAF	PAF preprocessor
PQCA	Pacbench Quality Control analysis
PQCE	Pacbench Quality Control extraction
PRGS	Master-Outline file printout
PRPE	PEI printing
PTDS	TDS start-up

PROCEDURE	CONTENTS
REAG	Restoration of requests
REOR	Database reorganization
REST	Database restoration
RES1	VA Pac test database restoration
RESY	Database 'system' restoration
RMTD	TD restore after migration
RSPE	Restoration of PEI files
RPPG	Requests older rel. backup retrieval
RTLO	Retrieval of locked entities
RTPE	PEI older rel. backup retrieval
RTPJ	Retrieval of older rel. archived journal
RVDE	Pacreverse Dictionary initialization
RVKE	Pacreverse keyword initialization
R$USER	V7 error-message shift
SADM	SSADM methodology integrity check
SASN	Sub-network backup
SASY	Database 'system' backup
SAVE	Database backup
SIPE	Production Turnover simulation
SMTD	TD backup for migration
SPWM	Macro-command implementation
SPWN	Batch spawning
SPWX74	COBOL-74 extractor implementation
SPWX85	COBOL-85 extractor implementation
SVAG	Command file backup
SVPE	PEI file backup
S$USER	C/S error-message shift
TRUV	Transformation of user manuals into volumes
TR01	Database data file sort
TR03	Database data file sort
TR02	Database index file sort
TR04	Database index file sort
UPDP	VA Pac database update from PAF tables
UPDT	Database update
VINS	Install. of VisualAge Smalltalk entities
XPAF	Validation of Extraction Master Path
XPDM	Validaiton of Master Outline
YSMC	YSM methodology integrity check

INSTALLATION JCL

PROCEDURE	CONTENTS
COBA	Program and file installation
COBAX	"
COTP	"
COTPX	"
CRCA	Catalog creation
DMCL	DMCL compilation
FCPA	FILSYS: VA Pac Database 'area' creation
FCRE	FILSYS: non-database file creation
FIT4	Creation of the DMIV-TP system files
ILI4	Initialization of on-line libraries
INAJ	Physical initialization of VA Pac journal
INID	Logical initialization of IDSF database
LKEG	Link of COBOL-85 programs for PAF-PDM
LKEI	Link of COBOL-85 programs for Pac/Impact
LKEX	Link of COBOL-85 programs for PACX
LNK1	Link of on-line programs for DMIV/TP
LNK2	"
LNK3	"
LNK4	"
LNK5	"
LNP4	"
MFT4	File modification: IDS2 TP8 --> DMIV-TP
PACA	LINK of GPRT programs (1)
PACB	LINK of GPRT programs (2)
PACC	LINK of GPRT programs (3)
PACD	LINK of GPRT programs (4)
PACQ	LINK of PQCA programs
RAND	Creation of the on-line sub-program library
RCBA	File and program reinstallation
RCBX	"
RCTP	"
RCTX	"
SYSG	TDS generation

TP8 MANAGEMENT JCL

PROCEDURE	CONTENTS
AWTP	Workstation Abort
AWTQ	-- --
ILI8	Initialization of TPR library
CRDY	Compile and link-edit of READY TPRs
DFTQ	Define of TQ Workstation
DFWD	Define of WD Workstation
ENWS	Enable Workstation
FIT8	TP8 system file creations
INTQ	Initialization of TQ Workstation
INWD	Initialization of WD Workstation
MFT8	Update of DMIV-TP IDS2 files to TP8
PROC	Spawn of TP8 Process
SLU1	Link of On-line Programs
SLU2	-- --
SLU3	-- --
SLU4	-- --
SLU5	-- --

2.9. BATCH PROCEDURES

THE BATCH PROCEDURES

Procedures associated with batch processing are described in several volumes :

. Operations Manual Volume II - Batch Procedures: Administrator's Guide.

This volume is dedicated to the VA Pac Database Administrator and includes all batch procedures involved in:

* Database Management utilities,
* Versioning utilities (PEI and Pac/Transfer),
* Manager's utilities,
* Migrations.

. Operations Manual Volume III - Batch Procedures: User's Guide.

This volume describes the procedures available to all VA Pac users:

* Standard procedures,
* Personalized extraction and automated documentation,
* Quality analysis and control,
* Methodology integrity check,
* Pactables,
* Pac/Impact,
* VisualAge Smalltalk/Java - VisualAge Pacbase Interface.

. Operations Manual Volume I - VA Pac Environment & Installation.

This volume includes procedures to be run in case of upgrade of earlier VA Pac releases.

- Releases 8.02v02 - 1.6:

* Archive Journal retrieval (PJ16)
* Sequential PEI backup retrieval (PP16)
* Generation-print Requests file retrieval (RPPG)

- Release 2.0:

* Generation-print Requests file retrieval (RPPG)

2.10. 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

LIST OF SYSTEM FILES

Besides the catalogs described in the preceding subchapters, the VA Pac system includes the following permanent files:

. A file containing ERROR MESSAGES as well as the ON-LINE DOCUMENTATION of the VA Pac system (AE0):

```
.External name  : $UMCS/$FILS.AE0
.Size           : About 35,000 records
.Organization   : USEQ
.Recsize        : 80
.Blksize        : 11,264
.Utilization    : Batch
```

This file is not directly used in normal system operation. It is added to the USER PARAMETER file necessary for system on-line operation (*). Both make up the AE system file.

```
.External name  : $UMCB/$BASE.AE
                  $UMCB/$BASE.XE
.Size           : = AE0 + user parameters
.Organization   : Indexed
.Recsize        : 80
.CI size        : 4,096
.Key            : 12 (position 0)
.Utilization    : Batch & on-line
```

. A file containing the USER PARAMETERS necessary for system batch operation (*) (AP, XP):

```
.External name  : $UMCB/$BASE.AP
                  $UMCB/$BASE.XP
.Size           : User parameters
.Organization   : Indexed
.Recsize        : 80
.CI Size        : 4,096
.Key            : 7 (position 0)
.Utilization    : Batch & on-line
```

(*) USER PARAMETERS managed in the AE file are:

User codes
VA Pac access key
Activation of blank-password check
Activation of batch procedure execution check
Text types
Management of accented character conversion
PACDESIGN Methodology parameter setting.

USER PARAMETERS managed in the AP file are:
Modification of fixed parts of standard error messages
and control cards necessary for the generation of programs.

All user parameters are processed by a special transaction and a special batch procedure (refer to Chapter "USER PARAMETER UPDATE"). The procedure is the PARM procedure, which creates the AE and AP files and also manages:

. A USER PARAMETER BACKUP file (PM):

```
.External name  : $UMCU/$FILU.PARMn
.Size           : User parameter volume
.Organization   : USEQ
.Recsize        : 80
.Blksize        : 11,264
.Utilization    : Batch
```

This file makes up the complete backup of ALL THE USER PARAMETERS found in the AE and AP files.

. A skeleton file for generation (QC, YC), used by the Structured code and Batch S.D. functions:

```
.External name  : $UMCS/$FILS.QC
                  $UMCS/$FILS.YC
.Size           : About 40 records
.Organization   : UIND
.Recsize        : 3,204
.Key            : 4 (position 0)
.CI size        : 3,236
.Utilization    : Batch only
```

. A skeleton file for generation (QG, YG), used by the Specifications Dictionary, On-line Systems Development, and Database Description functions:

```
.External name  : $UMCS/$FILS.QG
                  $UMCS/$FILS.YG
.Size           : About 360 records
.Organization   : UIND
.Recsize        : 4,605
.Key            : 5 (position 0)
.CI size        : 4,637
.Utilization    : Batch only.
```

. A skeleton file for generation (QR, YR), used by the COBOL Generator function:

```
.External name  : $UMCS/$FILS.QR
                  $UMCS/$FILS.YR
.Size           : About 25 records
.Organization   : UIND
.Recsize        : 4,605
.Key            : 5 (position 0)
.CI size        : 4,637
.Utilization    : Batch only.
```

. A skeleton file for generation (QS, XS), used by the Client/Server Generator function:

```
.External name  : $UMCS/$FILS.QS
                  $UMCS/$FILS.XS
.Size           : About 300 records
.Organization   : UIND
.Recsize        : 4,605
.Key            : 5 (position 0)
.CI size        : 4,637
.Utilization    : Batch only.
```

. A skeleton file for generation (QP, YP), used by the extractor generator of the PAF-function PDM extension:

```
.External name  : $UMCS/$FILS.QP
                  $UMCS/$FILS.YP
.Organization   : UIND
.Size           : About 5 records
.Recsize        : 4,605
.Key            : 5 (position 0)
```

```
.CI size        : 4,637
.Utilization    : Batch only.
```

. A skeleton file for generation (SF) used by the extractor generator of the PAF-function PDM extension:

```
.External name  : $UMCS/$FILS.SF
.Size           : About 3,000 records
.Organization   : USEQ
.Recsize        : 119
.CI size        : 6,650
.Utilization    : Batch only.
```

. An on-line work file (AT):

This file contains various information necessary to

- Back up the VA Pac screens when requiring a documentation process

Manage the display of relational database blocks (b -gen)

- Back up work areas for the purposes of the mapping function
- And manage the PAF access programs in on-line mode.

This file's size depends mainly on the number of users logged on the PB0 and PE0 transactions at a given time, and on the transactions that use the PAF on-line access function.

```
.External name  : $UMCB/$BASE.AT
.Organization   : Relative
.Recsize        : 1,940
.CI size        : 4,096
.Utilization    : On-line
.Size           : Depends on the number of users
```

2.11. EVOLVING FILES

2.11.1. VISUALAGE PACBASE DATABASE FILES

VA PAC DATABASE SYSTEM FILES

The first four files make up the actual VA Pac database. They contain all data related to application development, as follows:

. THE DATA FILE (AR,BR)

```
.External name  : $UMCB/$BASE.AR
                  $UMCB/$BASE.BR
.Organization   : Relative
.Recsize        : 140
.CI size        : 4,096
.Utilization    : Batch and on-line
.Size           : 27 records per page of 4,096
```

Each VA Pac line is stored in the data file under a fixed internal number.

The successive states of a given line from the various archived sessions form a chain; at the top of this chain is the most recent state of the line and at the end is the oldest state of the line. Programs never access a VA Pac line directly from this file, but first obtain the number of the top of the chain by consulting the Index file (AN,BN).

. THE INDEX FILE (AN,BN)

```
.External name  : $UMCB/$BASE.AN
                  $UMCB/$BASE.BN
.Organization   : Relative
.Recsize        : 980
.CI size        : 4,096
.Utilization    : Batch and On-line
.Size           : 76 index (VA Pac)
                  per page of 4,096
```

The Index file describes the various views of the VA Pac Database available and identifies the PACBASE line according to its position in the database.

The essential information is the internal number of the VA Pac line to which the index points.

. THE GENERATION-PRINT REQUEST FILE (AG, XG)

```
.External name  : $UMCB/$BASE.AG
                  $UMCB/$BASE.XG
.Organization   : Indexed
.Recsize        : 150
.CI size        : 4,096
.Key            : 27 (position 0)
.Utilization    : Batch and On-line
.Size           : 24 records per page of 4,096
```

This storage area allows the user to input and modify generation-print commands. This file is rather small, and is subject to heavy update activities on a daily basis. It is saved by the SVAG procedure.

It is initialized, restored, and reorganized by the REAG procedure.

. THE JOURNAL FILE (AJ):

```
.External name  : $UMCB/$BASE.AJ
.Organization   : Relative
.Recsize        : 167
.CI size        : 4,096
.Utilization    : Batch and on-line
.Size           : 23 records per page of 4,096
```

All transactions on the database whether in batch or on-line are saved for two reasons. First, to allow database restoration should the standard security system ever fail. Second, this information may be used for statistical purposes.

Transactions are normally stored in the Journal Backup file (PJ). The Journal file is a temporary medium between actual processing and the ARCH procedure execution which stores transactions in the PJ file.

NOTE: Generation-print requests are not taken into account in the Journal file.

2.11.2. SEQUENTIAL BACKUP FILES

SEQUENTIAL BACKUP FILES

The database backup is made of three sequential files which are:

. DATABASE BACKUP FILE (PC):

```
.External name  : $UMCU/$FILU.SAVEn
.Organization   : USEQ
.Recsize        : 151 (max.)
.CI size        : 16,128
.Utilization    : Batch
```

This is a common backup file of the VA Pac components: Index (AN,BN) and Data (AR,BR) files.

NOTE: In order to back-up large databases, a second file with the same characteristics can be used: $UMCU/$FILU.SVANn

. JOURNAL BACKUP FILE (PJ):

```
.External name  : $UMCU/$FILU.ARCHn
.Organization   : USEQ
.Recsize        : 167
.CI size        : 9,413
.Utilization    : BATCH
```

The purpose of this file is to store all update transactions that have affected the VA Pac Database since installation and that have passed through the Journal file (AJ). When its size becomes incompatible with operations needs, the ARCH procedure divides PJ into several files and only the most recent one is used on a daily basis.

. GENERATION-PRINT REQUEST BACKUP FILE (PG):

```
.External name  : $UMCU/$FILU.SVAGn
.Organization   : USEQ
.Recsize        : 150
.CI size        : 15,870
.Utilization    : BATCH
```

The purpose of this file is to backup the generation-print requests and to reorganize them using the REAG procedure.

2.11.3. PEI FILES

PRODUCTION ENVIRONMENT INTERFACE (PEI) FILES

Three additional evolving files are managed by the system either on-line or in batch mode when the PEI function is operating on-site. For more details on this function, refer to Chapter 'PRODUCTION ENVIRONMENT INTERFACE'.

These files contain all the data necessary for the management of the PEI function.

. BATCH PRODUCTION ENVIRONMENT FILE (AB, XB)

```
.External name  : $UMCB/$BASE.AB
                  $UMCB/$BASE.XB
.Organization   : Indexed
.Recsize        : 110
.CI size        : 4,096
.Key            : 26 (position 0)
.Utilization    : batch and consultation on-line
.Size           : 34 records
                  per page of 4,096
```

. ON-LINE PRODUCTION ENVIRONMENT FILE (AC, XC)

```
.External name  : $UMCB/$BASE.AC
                  $UMCB/$BASE.XC
.Organization   : Indexed
.Recsize        : 110
.CI size        : 4,096
.Key            : 26 (position 0)
.Utilization    : batch and on-line
.Size           : 34 records
                  per page of 4,096
```

. PEI BACKUP FILE (PE)

```
.External name  : $UMCU/$FILU.SVPEn
.Organization   : USEQ
.Recsize        : 110
.CI size        : 10,496
.Utilization    : BATCH
```

2.11.4. DSMS FILES

DSMS FILES

The DSMS function requires six IDS2 files which are part of the VA Pac database. For more information on these files, refer to the DSMS Operations Manual.

When the DSMS function is not installed at the site, these files have a mimimal size (one 4,096-character page per file).

When the DSMS function is installed, one of its files is read in batch and on-line modes by the VA Pac system. This file contains the list of VA Pac entities which are to be updated for each CHANGE NUMBER (the Change Number is entered in the VA Pac sign-on screen).

. DSMS VA PAC ELEMENTS FILE (DC, CD)

```
.External name  : $UMCBD/$BASD.DC
                  $UMCBD/$BASD.CD
.Organization   : Indexed
.Recsize        : 51 (min), 169 (max)
.CI size        : 4,096
.Key            : 31 (position 2)
.Utilization    : read when updating in on-line
                  or batch mode.
```

2.11.5. PAF FILES

PAF FUNCTION SPECIFIC FILES

. A work file for on-line PAF (AT):

This file is required by the PAF function operations, for all the user on-line programs.

It is described in Subchapter 'System Files'.

. A work file (PA, YA) for batch PAF:

The user batch programs need an indexed work file in order to make use of the PAF function. This file is allocated as FILE in the execution JCL.

```
.External name  : (FILE) PA,YA
.Organization   : Indexed
.Recsize        : Variable (max. 464)
.CI size        : 9,976
.Key            : 12 (position 0)
.Utilizsation   : Batch
.Size           : Depends on number of reads
```

PAF PDM EXTENSION SPECIFIC FILES

. An extraction schema file (GS, YS) contains the user extractors and macro-commands.

```
.External name  : $UMCU/$FILU.GS
                  $UMCU/$FILU.YS
.Organization   : UIND
.Recsize        : 203
.CI size        : 14,080
.Key            : 25 (position 0)
.Utilization    : Batch
```

2.11.6. PAC/IMPACT-FOR-VA-PAC FILES

'PAC/IMPACT FOR VISUALAGE PACBASE' FILES

. File of already-impacted criteria (FQ)

```
.External name:  $UMCU/$FILU.CRIIn
.Organization :  USEQ
.Recsize      :  100
.CI Size      :  6,144
.Utilization  :  Memorize those impact search criteria
                 that have already been processed
```

. Search criteria or entry point file (FH)

```
.External name:  $UMCU/$FILU.CRITn
.Organization :  USEQ
.Recsize      :  160
.CI Size      :  12,800
.Utilization  :  Memorize impact search criteria for
                 the next IANA execution
```

. Reduced file of criteria for purge (FR)

```
.External name:  $UMCU/$FILU.CRIRn
.Organization :  GFRC ASCII
.Utilization  :  Purge the impact search criteria in a
                 text editor
```

. Impact result file (FO)

```
.External name:  $UMCU/$FILU.RESUn
.Organization :  USEQ
.Recsize      :  260
.CI Size      :  8,192
.Utilization  :  Memorize all the results of the impact
                analysis.
```

. File of entities to be analyzed (FP)

```
.External name:  $UMCU/$FILU.FP, $UMCU/$FILU.PF
.Organization :  UIND
.Recsize      :  9
.CI Size      :  8,192
.Key          :  9 (position 0)
.Utilization  :  Restrict the impact analysis to those
                entities specified in the file
```

2.11.7. PAC/TRANSFER FILES

PAC/TRANSFER FILES

. Parameter file (UV):

This file is used to control the various Pac/Transfer processes.

```
.External name:  $UMCU/$FILU.UV, $UMCU/$FILU.YU
.Organization :  UIND
.Recsize      :  80
.CI Size      :  9,472
.Key          :  19 (Position 1)
```

The creation or update of this file --via the TRUP procedure-- stores the Transaction Sets, which define the various transfer processes envisioned for the site. (Each SET corresponds to a specific parameterization.)

The processes of the Pac/Transfer facility can thus process a unique SET, a list of SETS, or all the SETS, depending on current requirements.

A number of checks against the VisualAge Pacbase database are performed by the TRUP procedure.

For further details, see the description of the TRUP procedure in the Batch Procedures: Administrator's Guide.

2.11.8. VA PAC/VA SMALLTALK-BRIDGE FILES

'VISUALAGE SMALLTALK - VISUALAGE PACBASE BRIDGE' FILES

. Character-correspondence table

This table lists all the characters used in VisualAge Smalltalk identifiers that are not valid for VisualAge Pacbase codes, as well as their replacement characters.

It is shipped as an empty file, which should be filled by the user as described in the description of the VUP1 procedure, in the Batch Procedures: User's Guide.

```
.Organization:  GFRC ASCII
.Recsize     :  80
```

2.12. COMPLEMENTARY FILES

DATABASE COMPLEMENTARY FILES

These files are copied in catalog $UMCU/$FILU.

. PAF FUNCTION: in file MBPAFD, batch transactions on Data Element, Data Structure and Segment entities required by PAF Table descriptions and planned for integration in a Dictionary.

. PAF FUNCTION EXTENSION: in file MBPGDP, batch transactions on Data Element and User Entities .PPTEX "Extraction Master Path", planned for integration in a Dictionary.

. A batch user program and its JCL, as well as an on-line user program for each of the two PAF extractors (Dictionary and keywords), in the form of batch transactions designed for integration into a Dictionary.

. PQC function: in file MVPQCE, the standard quality rule file.

. PQC FUNCTION PERSONALIZATION: in file MBUPQC, batch transaction on Data Element and .QPAQC User Entities planned for integration in a Dictionary.

. ERROR MESSAGE UPDATE UTILITIES (user applications): in file MBUTI, batch transactions on Segment Entities and Batch Programs (UTEMLD and UTEMUP), planned for integration in a Dictionary. These will be used for creating error-message loading and update programs for a given application, according to a site's requirements.

File	Contents or format	Comments
Specific files of the PAF and PAF+ functions:		
MBPAFD	Batch transactions	PAF Dictionary
MBPAFT	Batch transactions	PAF batch and on-line user program samples
MBPGDP	Batch transactions	PAF+ Dictionary
Specific files of the Pacbench Quality Control function:		
MVPQCE	Sequential file	Standard rules
MBUPQC	Batch transactions	PQC Dictionary
Error message update utility source (user applications):		
MBUTI	Batch transactions	Programs and Segments

THE 'VISUALAGE SMALLTALK' DICTIONARY FILE: VGEN

This file is copied in catalog $UMCS/$FILS.

It contains the definition of the 'VisualAge Smalltalk' entities which are to be integrated in the VA Pac Dictionary.

Such integration is necessary for the operation of the VisualAge Smalltalk-VisualAge Pacbase Bridge.

This file makes up the input of the VINS procedure. (For further details, refer to the corresponding chapter in part II of this manual, 'THE BATCH PROCEDURES: Administrator's Guide.)

THE PACDESIGN METHODOLOGY FILES

These files are copied in catalog $UMCU/$FILU.

. For the WorkStation to operate, two types of integrations in VA Pac are required:

- In the Dictionary: integration of transactions associato the Data Elements and User entities of the PACDESIGN methodology in use.

- In the VA Pac system: integration of transactions defining methodology choices (User Parameters).

. These transactions are grouped in the following files:

Member	Contents	Proc.
MBDMER	Batch transactions MERISE methodology	UPDT
MBPAMER	Parameterization MERISE Methodology	PARM
MBDADM	Batch transactions SSADM Methodology	UPDT
MBPAADM	Parameterization SSADM Methodology	PARM
MBDYSM	Batch transactions YSM Methodology	UPDT
MBPAYSM	Parameterization YSM Methodology	PARM
MBDIFW	Batch transactions IFW Methodology	UPDT
MBDIFWP	Pre-loading IFW Methodology	UPDT
MBPAIFW	Parameterization IFW Methodology	PARM
MBDOMT	Batch transactions OMT Methodology	UPDT
MBPAOMT	Parameterization OMT Methodology	PARM

DO NOT MODIFY THE CONTENTS OF THESE FILES!

THE MULTI-SCREEN OLSD VARIANT SOURCE FILES

These files are copied in catalog $UMCS/$SOURCE.

These complementary files are useful only to users of the multi-screen variant of the OLSD function.

They contain the source sub-programs for the management of screen message 'ZAR980' for all dedicated generators for which this variant is available.

Member	Contents
ZARCVS	MVS/CICS Cobol VS and VSE/CICS Cobol VS
ZARCII	MVS/CICS Cobol II
ZARG7	GCOS7/TDS
ZARG8	GCOS8/DMIV and TP8
ZARICL	ICL
ZARBUR	Unisys A
ZARDEC	DEC (characters)
ZARDE2	DEC (fields)
ZARTRM	DEC (assembler)
SCRDEC	DEC sub-program
HPFORM	HP3000 screen-message processing
ZARMF1	Microfocus sub-program
SCRCODIF	Microfocus sub-program
SCRIOPAR	Microfocus sub-program
SCRPEINT	Microfocus sub-program
SCRSAISI	Microfocus sub-program
ZARMFO	VisualAge Pacbase-reserved
SCRMFO	VisualAge Pacbase-reserved

3. ENVIRONMENT

3.1. INTRODUCTION

INTRODUCTION

This chapter details the environment and resources required by VisualAge Pacbase, so as to help you determine the necessary disk space.

DEVELOPMENT SITE

This VA Pac release was developed and tested at a site with the following configuration:

```
Machine               : DPS9000/542
Operating system      : GCOS-8 - SR4500
Database level        : DB7.2
DMIV-TP level         : 8TA4.1
TP8     level         : 8IT4.2
Terminals             : DKU7107, IBM3270, VIP7800
Communication mode    : DAC
```

OPERATIONS SITE

The following minimum configuration is required at the operation site:

```
Operating system      : GCOS-8
DMIV-TP level         : minimum: 8TA4
TP8     level         : minimum: 8IT1.1
Communication mode    : DAC
Synchronous terminals : VIP7700, VIP7800, IBM3270,
                        QUESTAR (128 input fields)
```

3.2. ON-LINE ENVIRONMENT

ON-LINE ENVIRONMENT

The monitors in use are DMIV-TP and TP8.

The Data (AR,BR), Index (AN,BN), Journal (AJ), Generation Print Request (AG,XG), Error Message (AE,XE), and User Parameter (AP,XP) files are updated on-line. As such, they must be protected by the TDS journalization option, i.e. 'JOURNAL BEFORE' at least. The same applies to the PEI on-line file (AC, XC).

In case of system failure, it is recommended to restart the TDS with the RESTART option.

The average size of a TPR is 42 K, the largest being 85 K.

In order to limit I/O's in the journals, it is recommended to suppress 'AFTER IMAGES' for the AN, BN, AR and BR files.

GENERAL INFORMATION - HOW THE SYSTEM RUNS

Two transactions are used. The first calls for the first TPR of the VA Pac system (ZAQAA0), the second calls for the first TPR related to the management of the Production Environment (PEI) function and user parameters (ZAPAA0).

Both transaction code values are set by the user according to the following considerations:

In order to work with several types of terminals, the fourth character determines the display mode of the message :

'1' for VIP7700 terminals,
'2' for IBM3270 terminals,
'3' for VIP7800 terminals,
other for QUESTAR terminals.

In order to benefit from VIP terminals which have up to 128 input fields, the transaction code must be followed by '/128'. This regroups several variable fields. The user can enter this option in the CHOICE field of The user can enter this option in the CHOICE field of any PACBASE screen.

EXAMPLES:

```
PAC, PACBASE, PA00 --> QUESTAR 192 mode
PB0/128            --> QUESTAR 128 mode
PA01, PV01         --> VIP7700 128 mode
PB01/192           --> VIP7700 192 mode
PA02               --> IBM3270 mode
PB03               --> VIP7800
```

Each conversation starts and ends with a TPR execution, ZAQAA0 for the VA Pac transaction and ZAPAA0 for the PEI transaction.

Both ZAQAA0 and ZAPAA0 source code is supplied to allow for insertion of standard on-site beginning and ending conversation processes. Also, the standard transaction codes may be modified. These codes are:

PB0 = VA Pac
PE0 = Production environment

Each screen with a Read-Write access is associated with a TPR. For example, ZAQC00 assures data element definition update.

List-type screens are processed in a single TPR: ZAQH01.

'Special' list-type screens such as cross-references, keywords, etc., are processed in specific TPRs: ZAQS02, ZAQS03, ZAQS04, and ZAQS05.

Menus are processed by ZAQS06.

Some TPRs call sub-programs contained in a 'RANDOM' library. This is the case for ZAR100 for CHOICE field processing and ZAR200 for data element format validation.

When an anomaly is managed by the PACBASE System, an ABORT MAP is displayed. ZAR500 and ZAPBND, both display programs, are called by the instruction:

```
Call '.ABORT'.
```

Updates are serialized; the VA Pac system manages simultaneous accesses by queuing update TPRs.

For TPRs which become too large, choice processing is performed by a specific TPR: ZAQCHX. Message formatting, sending and reception are processed by a specific TPR: ZAQ990.

'FT' entered in the OPERATION field on the VA Pac initial screen ensures a correct exit. The following message is displayed: 'END OF CONVERSATION'.

VA PAC IN VIP7700 OR VIP7760 MODE

. Function keys are not available as such. However, the corresponding standard functions provided by the VA Pac System can be implemented by entering '.nn' in the CHOICE field, where nn is equal to the function key number.

```
EXAMPLES: PF7  = .7
          PF10 = .10
```

. Cursor position is not indicated when pressing the ENTER key. In some cases, such as going to a selected entity or text, a slash ('/') character entered in the first field of the line simulates cursor position.

This facility can only be used when there is at least one input field per line and no ambiguity as to the use of the slash. For this reason, it cannot be used on list-type screens since they have no input field or on text description screens where a slash ('/') is considered as a regular character. Also, it is incompatible with the line split function for which the / is input on text lines.

PARTICULAR CASE: ZOOM FACILITY

On the -HCD screens, windows are opened with .10 in the CHOICE field and with the < or > signs in a specific input field on the selected line.

IMPORTANT NOTE: Graphic characters, such as PLW characters on QUESTAR screens, cause discrepancies which are not managed by VA Pac. It is therefore better to configure screens in NON-PLW mode, particularly for accented lower-case letters.

VA Pac IN VIP7800 MODE

With this terminal type, VA Pac programs recover function key values, but not cursor positions.

VA Pac IN IBM3270 MODE

With this terminal type, VA Pac programs recover function key values and cursor positions.

MANAGEMENT OF LOWER- AND UPPER-CASE CHARACTERS

The VA Pac System has its own management for lower- and upper-case characters.

. Codes entered in lower-case are automatically changed into upper-case.

. Clear names of entities and text lines remain in lower-case if entered as such.

. Implicit keywords built from clear names are in upper-case.

The value 'X' entered in the ACTION CODE field inhibits changes from lower- to upper-case.

VA Pac lower/uppercase management requires a lower-case configured screen and a printer which can process lower-case characters. Also, before logging on, the user must enter '$*$LC ON'.

In batch mode, lower-case codes are transformed the same as in on-line mode.

If the user wants to work in upper-case exclusively, the system's editor functions must be used to ensure automatic transformation from lower- to upper-case. VA Pac does not make this transformation automatically in batch mode.

3.3. STRUCTURE OF VA PAC UNDER DMIV-TP AND TP8

VA PAC STRUCTURE UNDER DMIV-TP AND TP8

As a general rule, each VA Pac line type is processed by a specific program. There are two types of programs:

- Programs that can update the database,

- Programs that can only read the database.

For each VA Pac operation there are several corresponding programs. After a request is entered, the following steps are executed:

ZAQ990 PROGRAM

- Screen read (receive)
- Formatting of received message
- Program exit.

PROGRAM PROCESSING THE DISPLAYED LINE

* If detection of update:

- Read and update of the first AR record (updates are serialized).

- Loop on requested updates which may contain the following per updated line:

. Several positionings or sequential READs of the AN
. file,
. Several simple READs of the AR file,
. One or two WRITE commands on the AR file,
. Several WRITE commands on the AN file,
. A write command on the AJ file.

- Read and update of the first AR record.

- Resource de-allocation (CALL '.FREE').

* Program exit.

ZAQCHX PROGRAM

- If input is entered in the CHOICE field: Call of the CHOICE field decoding sub-program.

- If the CHOICE is valid: The corresponding program is indicated in the NEXT-TPR field.

- Program exit.

PROGRAM PROCESSING THE LINE TO BE DISPLAYED

- Display broken down as follows:

. Several positionings or sequential READs of the AN file,

. Several simple READs on the AR file.

- Program exit.

ZAQ990 PROGRAM

- Formatting of message to send.

- Send map.

- Exit program.

3.4. DMIV-TP ENVIRONMENT

DMIV-TP ENVIRONMENT

VA PAC SYSGEN: RECOMMENDATIONS

In order to make the on-line SYSGEN parameterization easier, and thus optimize response time, the following rules should be observed:

```
-TPR MEMORY SPACE       : 80K per NORMAL-LOAD


-PAGE RESERVATION POOL  : Twice  the largest value allocated
                          to a transaction  per NORMAL-LOAD


-POOL OF DB-BUFFERS     : The largest possible size


-Cancellation of the on-line system journalization for the
 'AFTER' images of data and index areas


-Running the TP monitor with the '$  PRIVITY' JCL card


-The 'PETITIONER' TP parameter must be equal to zero to en-
 able duplication of TPR's in memory.
```

```
          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 INTEGRATED PAC7AN ASSIGN TO AN
              SUPPRESS AFTER.
              SELECT INTEGRATED PAC7AR ASSIGN TO AR
              SUPPRESS AFTER.
              SELECT INTEGRATED PAC7AT ASSIGN TO AT
              SUPPRESS AFTER.
              SELECT INTEGRATED PAC7AO ASSIGN TO BN
              SUPPRESS AFTER.
              SELECT INTEGRATED PAC7AS ASSIGN TO BR
              SUPPRESS AFTER.
              SELECT INTEGRATED PAC7AJ ASSIGN TO AJ.
              SELECT INDEXED    PAC7AG ASSIGN TO AG,XG.
              SELECT INDEXED    PAC7AB ASSIGN TO AB,XB.
              SELECT INDEXED    PAC7AC ASSIGN TO AC,XC.
              SELECT INDEXED    PAC7AE ASSIGN TO AE,XE.
              SELECT INDEXED    PAC7AP ASSIGN TO AP,XP.
              SELECT INDEXED    SGDSDC ASSIGN TO DC,CD.
              SELECT INDEXED    SGDSDE ASSIGN TO DE,ED.
              SELECT INTEGRATED SGDSDA ASSIGN TO DA.
              SELECT INTEGRATED SGDSAD ASSIGN TO AD.
              SELECT INTEGRATED SGDSDX ASSIGN TO DX.
              SELECT INTEGRATED SGDSDH ASSIGN TO DH.
              SELECT INTEGRATED SGDSDJ ASSIGN TO DJ.
          DB SSPA   WITHIN PACBASE.
          DB SSPE   WITHIN PACBASE.
          DB SSPG   WITHIN PACBASE.
          DB SSPM   WITHIN PACBASE.
          DB SSPT   WITHIN PACBASE.
          DB SSSG   WITHIN PACBASE.
          TRANSACTION SECTION.
          TRANSACTION STORAGE.
           01 TSPB SIZE 11900.
           01 TSPE SIZE  2200.
           01 TSPA SIZE  3000.
          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 "PB0" ASSIGN ZAQAA0
                  WRAP-UP THROUGH ZAR500
                  ALLOCATE 2 MSG-BUFFERS 8 DB-BUFFERS
                           80 PAGES
                  ACCESS SSPT WITHIN PACBASE
```

```
            AND    SSPG WITHIN PACBASE
            AND    SSPE WITHIN PACBASE
            AND    SSPM WITHIN PACBASE
            CONCURRENCY MODE-0 FOR DC,CD,AB,XB
            CONCURRENCY MODE-3 FOR AN,AR,BN,BR,AT
            CONCURRENCY MODE-4 FOR AE
            TRANSACTION-STORAGE IS TSPB
            CONSTANT-STORAGE    IS CTE
            USE USEND FOR SEND-MSG
            ALLOW SPAWNB
            AUTHORITY-CODE IS 5.
        MESSAGE "PE0" ASSIGN ZAPAA0
            WRAP-UP THROUGH TP-ABT
            ALLOCATE 2 MSG-BUFFERS 5 DB-BUFFERS
                     50 PAGES
            ACCESS SSPE WITHIN PACBASE
            CONCURRENCY MODE-0 FOR DC,CD,AB,XB
            CONCURRENCY MODE-4 FOR AE
            TRANSACTION-STORAGE IS TSPE
            CONSTANT-STORAGE    IS CTE
            USE USEND FOR SEND-MSG
            AUTHORITY-CODE IS 5.
        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 TSPB
            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 TSPB
            CONSTANT-STORAGE    IS CTE
            USE USEND FOR SEND-MSG
            ALLOW SPAWNB
            AUTHORITY-CODE IS 5.
        MESSAGE "PAF" ASSIGN PFP000
            WRAP-UP THROUGH TP-ABT
            ALLOCATE 2 MSG-BUFFERS 8 DB-BUFFERS
                     80 PAGES
            ACCESS SSPA WITHIN PACBASE
            CONCURRENCY MODE-0 FOR AN,BN,AR,BR,AE,XE
            TRANSACTION-STORAGE IS TSPA
            CONSTANT-STORAGE    IS CTE
            USE USEND FOR SEND-MSG
            AUTHORITY-CODE IS 5.
    COMMUNICATION SECTION.
    TERMINAL-CONTROL.
        DATA-COMMUNICATION DAC
        BUFFER SIZE 2150
        TOTAL NUMBER 5 OUTPUT 2.
    OPERATOR-CONTROL.
        ASSIGN MASTER TO ".MST".
        ASSIGN SLAVE  TO "SLAV".
        ASSIGN 5 TO "P001" "P002" "P003".
        ASSIGN 5 TO "D001" "D002" "D003".
```

3.5. TP8 ENVIRONMENT

TP8 ENVIRONMENT

The $UMCS/$SOURCE catalog contains the three source files required for VA Pac TP8 operations.

These source files initialize TP8 operations files, manage communication between TP8 and different terminal types, and define the VA Pac environment under TP8.

A set of JCLs which are specific to the site's TP8 release is supplied in the $JCL catalog.

These JCLs are used to execute the operations necessary for VA Pac TP8 functions.

For more details on these JCLs, refer to Subchapter "TP8 ENVIRONMENT GENERATION" in Chapter "INSTALLATION".

Two JCLs can abort the VA Pac and communication Workstations. They are UMCU/$JCL/.AWTQ and $UMCU/$JCL/.AWTP.

Six parameters define the TP8 environment. They are described in Chapter 'VA PAC COMPONENTS', Subchapter 'System Parameters'.

RECOMMENDATIONS

The WorkStation Control Language source provided with the product is adapted to TP8 release 8IT4.2.

3.5.1. NODE DEFINITION

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

3.5.2. TQ WORKSTATION

```
&
&*************************************************
&*     VA Pac TQ WORKSTATION                      *
&*************************************************
&
REMOVE_WORKSTATION               $TQN    ;
&
CREATE_WORKSTATION               $TQN    &
      -EXTENSION_TYPE            TQ      &
      -MAX_TENANTS               200     &
      -TENANT_RECOVERY_FILE_CODE TR      &
      -TENANT_UNMAPPING          YES     ;
&
CREATE_TX_QUEUER_EXTENSION       $TQN    &
      -PERCENT_DAC_USERS         70      &
$VIPU -PERCENT_VIP_USERS         30      &
      -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_QUEUER_PROGRAM_NAME    $PBN    &
      -WS_NAME                   $TQN    &
      -MBX_NAME                  $PBMB   &
      -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     &
      -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     ;
```

3.5.3. VISUALAGE PACBASE WORKSTATION

```
&
&*************************************************
&*                                               *
&*     VA Pac WORKSTATION DESCRIPTION            *
&*                                               *
&*************************************************
&
REMOVE_WORKSTATION $PBN                      &
       ;
CREATE_WORKSTATION $PBN                      &
       -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          &
       ;
&
&*************************************************
&*                                               *
&*     VA Pac MAILBOX DESCRIPTION                *
&*                                               *
&*************************************************
&
CREATE_MAILBOX                $PBMB         &
       -WS_NAME               $PBN          &
$MAXLC -MAX_LOGICAL_CONNECTIONS 100          &
       -ACTIVATE_TENANT       YES           &
       ;
&
&*************************************************
&*                                               *
&*     SESSION TYPE DESCRIPTORS DEFINITION       *
&*                                               *
&*************************************************
&
CREATE_SESSION_TYPE_DESC       AC            &
       -WS_NAME                $PBN          &
       -SENDER_ID              G8TP          &
       -ACCEPTOR_MBX_NAME      $PBMB         &
$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                $PBN          &
       -SENDER_ID              G8TP          &
       -ACCEPTOR_MBX_NAME      $PBMB         &
$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                 $PBN         &
          -SENDER_ID               G8TP         &
          -ACCEPTOR_MBX_NAME       $PBMB        &
   $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                 $PBN         &
          -SENDER_ID               G8TP         &
          -ACCEPTOR_MBX_NAME       $PBMB        &
   $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                 $PBN         &
          -SENDER_ID               G8TP         &
          -ACCEPTOR_MBX_NAME       $PBMB        &
   $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                 $PBN         &
          -SENDER_ID               G8TP         &
          -ACCEPTOR_MBX_NAME       $PBMB        &
   $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                 $PBN         &
          -SENDER_ID               G8TP         &
          -ACCEPTOR_MBX_NAME       $PBMB        &
   $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          &
          ;
   &
   &*****************************************************
   &*                                                   *
   &*     VA Pac WORKSTATION EXTENSION                  *
   &*                                                   *
   &*****************************************************
   &
```

```
    CREATE_TP8_EXTENSION           $PBN          &
           -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                  $PBN        &
           -NUMBER_CONTROL_INTERVALS 1000        &
           -CONTROL_INTERVAL_SIZE    2304        &
           -HEADER_WRITE_PERIOD      200         &
           ;
    &
    &************************************************
    &*                                              *
    &*     TPR LIBRARY DEFINITION                   *
    &*                                              *
    &************************************************
    &
    CREATE_GLOBAL_FILE             10            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCT/$FIL8.TPRLIB &
           -VERSION                0000          &
           -PERMISSION             R/C           &
           -ALLOCATION             REQUIRED      &
           -MODE                   RANDOM        &
           -TYPE                   $TYP            &
    $LIBT  -LIBRARY_TYPE           PUBLIC          &
           ;
    &
    &************************************************
    &*                                              *
    &*     VA Pac AREAS DESCRIPTION                 *
    &*                                              *
    &************************************************
    &
    CREATE_GLOBAL_FILE             AN            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCB/$BASE.AN &
           -VERSION                0000          &
           -PERMISSION             W/C           &
           ;
    CREATE_GLOBAL_FILE             BN            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCB/$BASE.BN &
           -VERSION                0000          &
           -PERMISSION             W/C           &
           ;
    CREATE_GLOBAL_FILE             AR            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCB/$BASE.AR &
           -VERSION                0000          &
           -PERMISSION             W/C           &
           ;
    CREATE_GLOBAL_FILE             BR            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCB/$BASE.BR &
           -VERSION                0000          &
           -PERMISSION             W/C           &
           ;
    CREATE_GLOBAL_FILE             AG            &
           -WS_NAME                $PBN          &
           -PATH_NAME              $UMCB/$BASE.AG &
           -VERSION                0000          &
```

```
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          XG            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.XG &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          AJ            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AJ &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          AE            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AE &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          XE            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.XE &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          AP            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AP &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          XP            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.XP &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          AB            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AB &
        -VERSION                0000          &
        -PERMISSION             R/C           &
        ;
    CREATE_GLOBAL_FILE          XB            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.XB &
        -VERSION                0000          &
        -PERMISSION             R/C           &
        ;
    CREATE_GLOBAL_FILE          AC            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AC &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          XC            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.XC &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          AT            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCB/$BASE.AT &
        -VERSION                0000          &
        -PERMISSION             W/C           &
        ;
    CREATE_GLOBAL_FILE          DE            &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCBD/$BASD.DE &
        -VERSION                0000          &
        -PERMISSION             W/C           &
```

```
       ;
   CREATE_GLOBAL_FILE            ED            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.ED &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            DH            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.DH &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            DA            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.DA &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            AD            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.AD &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            DC            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.DC &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            CD            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.CD &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            DX            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.DX &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   CREATE_GLOBAL_FILE            DJ            &
       -WS_NAME                  $PBN          &
       -PATH_NAME                $UMCBD/$BASD.DJ &
       -VERSION                  0000          &
       -PERMISSION               W/C           &
       ;
   &
   &************************************************
   &*                                              *
   &*     FIRST READY TPR DESCRIPTION              *
   &*                                              *
   &************************************************
   &
   MODIFY_COMMAND                $RDY          &
       -WS_NAME                  $PBN          &
       -FIRST_TPR_NAME           ZAQRYE        &
       ;
   &
   &************************************************
   &*                                              *
   &*     COMMANDS DESCRIPTION                     *
   &*                                              *
   &************************************************
   &
   CREATE_COMMAND PB0                          &
       -WS_NAME                  $PBN          &
       -FIRST_TPR_NAME           ZAQAA0        &
       -WRAPUP_TPR_NAME          ZAR500        &
       -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 PE0                        &
        -WS_NAME                $PBN          &
        -FIRST_TPR_NAME         ZAPAA0        &
        -WRAPUP_TPR_NAME        ZAPBND        &
        -AUTHORITY_CODES        5-63          &
        -TX_STORAGE_SIZE        2200          &
        -GLOBAL_STORAGE_NAME    GSDUMMY       &
        -CONCURRENCY_MODE       1             &
        -COBOL_SEND_EDIT_MODE   1             &
        -TX_RESTART             NO            &
        ;
    CREATE_COMMAND DSF                        &
        -WS_NAME                $PBN          &
        -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                $PBN          &
        -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 PAF                        &
        -WS_NAME                $PBN          &
        -FIRST_TPR_NAME         PFP000        &
        -WRAPUP_TPR_NAME        TP-ABT        &
        -AUTHORITY_CODES        5-63          &
        -TX_STORAGE_SIZE        3000          &
        -GLOBAL_STORAGE_NAME    GSDUMMY       &
        -GLOBAL_STORAGE_SIZE    4             &
        -CONCURRENCY_MODE       1             &
        -COBOL_SEND_EDIT_MODE   1             &
        -TX_RESTART             NO            &
        ;
    &
    &*************************************************
    &*                                               *
    &*     SCHEMA VA Pac                             *
    &*                                               *
    &*************************************************
    &
    CREATE_SCHEMA_REFERENCE     PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.1STAR &
        ;
    &
    &*************************************************
    &*                                               *
    &*     VA Pac SUBSCHEMA   SSPA                   *
    &*                                               *
    &*************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSPA           &
        -SCHEMA_NAME            PACBASE       &
```

```
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSPA   &
        ;
    &
    &************************************************
    &*                                              *
    &*     VA Pac SUBSCHEMA   SSPE                  *
    &*                                              *
    &************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSPE          &
        -SCHEMA_NAME            PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSPE   &
        ;
    &
    &************************************************
    &*                                              *
    &*     VA Pac SUBSCHEMA   SSPG                  *
    &*                                              *
    &************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSPG          &
        -SCHEMA_NAME            PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSPG   &
        ;
    &
    &************************************************
    &*                                              *
    &*     VA Pac SUBSCHEMA   SSPT                  *
    &*                                              *
    &************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSPT          &
        -SCHEMA_NAME            PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSPT   &
        ;
    &
    &************************************************
    &*                                              *
    &*     VA Pac SUBSCHEMA   SSPM                  *
    &*                                              *
    &************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSPM          &
        -SCHEMA_NAME            PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSPM   &
        ;
    &
    &************************************************
    &*                                              *
    &*     DSMS   SUBSCHEMA   SSSG                  *
    &*                                              *
    &************************************************
    &
    CREATE_SUB_SCHEMA_REFERENCE    SSSG          &
        -SCHEMA_NAME            PACBASE       &
        -WS_NAME                $PBN          &
        -PATH_NAME              $UMCS/$SCHEMA.SSSG   &
        ;
    &
    &************************************************
    &*                                              *
    &*     MASTER LID CREATION  AUTHORITY 63        *
    &*                                              *
    &************************************************
    &
    CREATE_SOURCE_LID              ZEUS          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
```

```
        -NODE                   LOCL          &
        -AUTHORITY_CODE         63            &
        -USER_GROUP             63            &
        ;
&
&************************************************
&                                               *
&      OTHER LIDS DESCRIPTION                   *
&                                               *
&************************************************
&
CREATE_SOURCE_LID               P001          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
CREATE_SOURCE_LID               P002          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
CREATE_SOURCE_LID               P003          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
CREATE_SOURCE_LID               D001          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
CREATE_SOURCE_LID               D002          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
CREATE_SOURCE_LID               D003          &
        -WS_NAME                $PBN          &
        -MAILBOX                $VIPMB        &
        -NODE                   LOCL          &
        -AUTHORITY_CODE         5             &
        ;
&
&************************************************
&*                                              *
&*     CREATE READY-TPR FOR SYSOUT-DISPOSITION  *
&*                                              *
&************************************************
&
CREATE_TPR                      ZAQRYA        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
CREATE_TPR                      ZAQRYE        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
CREATE_TPR                      ZAQRYG        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
CREATE_TPR                      ZAQRYM        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
CREATE_TPR                      ZAQRYT        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
CREATE_TPR                      DSRYSG        &
        -WS_NAME                $PBN          &
        -SYSOUT_DISPOSITION     DIRECT        ;
&
```

```
    DEFINE_WORKSTATION $PBN ;
    DEFINE_TP8_EXTENSION $PBN ;
    &
    &************************************************
    &*                                              *
    &*     LIST ALL DETAIL RECORDS FROM TP8 WORKSTATION *
    &*                                              *
    &************************************************
    &
    LIST_WORKSTATION_CONTROL RECORDS  ;
    LIST_WORKSTATION_CONTROL ALL    ;
```

3.6. 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 TP8 procedure list

. 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.

3.7. IMPACT OF GCOS8 MIGRATIONS

IMPACT OF GCOS8 MIGRATIONS ON VA PAC

If VA Pac is in a DMIV-TP environment no modifications are necessary in the JCLs due to the evolution of GCOS8 releases.

When VA Pac works in a TP8 environment, the procedures managing the environment as well as the source code describing it must be modified in order to work with certain GCOS8 releases.

The GCOS8 releases necessitating these modifications are the following:

SR-4000
SR-4000.4
SR-4020
SR-4500

The VA Pac procedures effected by the GCOS8 migrations are the following:

INWD	Initialization of WorkStation files
DFWD	Definition of the VA Pac WorkStation
DFTQ	Definition of the TQ WorkStation
INTQ	Initialization of the TQ WorkStation
AWTP	Abort of VA Pac WorkStation
AWTQ	Abort of TQ WorkStation
ENWS	Run-start of VA Pac WorkStation
PROC	VA Pac process
ILI8	Initialization of TPR library
CRDY	VA Pac READY-TPR compilation
UPD4	VA Pac TPR library
SLUn	VA Pac TPR link-edit

The VA Pac source code effected by the GCOS8 migrations is as follows:

DFWCL	Definition of the VA Pac WorkStation
DWTQS	Definition of the TQ WorkStation
DNODE	Definition of the NODE

3.8. ADAPTATION TO GCOS8 MIGRATIONS

ADAPTATION OF VA PAC TO GCOS8 MIGRATIONS

After an upgrade to GCOS8 releases SR-4000, SR-4000.4, SR-4020 or SR-4500, the procedure $UMCI/PACD/P250/INST/UTI110 (CRUN) modifies affected VA Pac elements accordingly.

The $UMCI/PACD/P250/INST/PRMIGR file (which contains the list of the procedures affected by the migration) must be incorporated to the PARM file which contains the intallation parameters.

This procedure re-parameterizes all the elements defined in the preceding sub-chapter using product installation parameters and parameters specific to the different GCOS8 releases.

It creates a command file, $UMCI/PACD/P250/INST/JCL which distributes all corrected elements to their catalogues when it is sent to the system by the CRUN command.

After this distribution, the following procedures must be re-submitted by the JRN command:

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

3.9. ACCESS METHODS

ACCESS METHODS

The VA Pac System manages its files using the indexed access method without a secondary or relative index.

Simultaneous batch and on-line updates are prevented by the FMS options and by access authorizations for the control cards of the VA Pac Database files.

NOTE

Under DMIV-TP, it is highly recommended to AVOID using the FMS options which are specific to TP8 for database files.

With these options, the update of buffers in DMIV-TP is sometimes ignored in BATCH (in particular for the GPRT procedure when it is spawned).

3.10. 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.

Taking the installation JCL into account the largest of memory needed is 243K words. This is true in particular for the Database update procedure (UPDT).

3.11. FILE SIZE

FILE SIZE

The total amount of space needed for the evolving files can be calculated taking into account the following remarks:

Let NPAC be the number of VA Pac records, all libraries and sessions included. Then the following applies:

(AR,BR) Data File : NPAC records of 140 bytes.

A 4K-page contains up to 27 records.
Thus, the required number of pages is:
PR = NPAC/27 (rounded up).
Since the DMCL provides for 64 DB-KEYS per page,
((64 * PR)/2) DB-KEYS
must be allocated to the PAC7AR and PAC7AS areas.

(AN,BN) Index File: About 3 * NPAC index (on average, data is used three times).

A 4K-page contains up to 76 indexes.
When this area is restored by the REST procedure, its pages are filled at a 75 per cent rate (i.e. 56 indexes per page). Management of the indexes according to the B TREE method requires the creation of technological records, consuming about 10 per cent of additional pages. The number of required pages is thus:
PN = (3 * NPAC / 56) + 10% rounded to the higher unit.
Physically, these indexes are contained in four DMIV records. The DMCL provides for 8 DB-KEYS per page. Therefore, ((8 * PN)/2) DB-KEYS must be allocated to the PAC7AR and PAC7AO areas.

(AG,XG) Generation-Print Request File:

Generally takes up little space. It should be able to hold about 100 requests per user (150 bytes). Let NAG be the number of requests. A 4K-page contains up to 24 records. During loading, pages are filled at a 75 per cent rate. Thus, the required number of pages is:
PG = NAG / (24 * 75%).

As this file is indexed, 512 DB-KEYS must be reserved per page.
Thus, 512 * PG DB-KEYS must be allocated to the PAC7AG area.

(AJ) Journal File: It must contain enough space for all batch and on-line transactions entered between two reinitializations of the Journal File.

A VA Pac transaction corresponds to one record of the Journal File (167 bytes). Let NAJ be the number of transactions. A 4K-page contains up to 23 records. Thus, the required number of pages is:
PJ = NAJ / 23.
The DMCL provides for an allocation of 32 DB-KEYS per page. Thus, 32 * PJ DB-KEYS must be allocated to the PAC7AJ area.

(AP,XP) User Parameter File: Takes up minimal space. It contains a fixed part of about 200 records, plus one record per VA Pac user (80 bytes per record). Let NAP be the number of records. A 4K-page contains up to 46 records. During loading, pages are filled at a a 75 per cent rate. Therefore, the required number of pages is:

PP = NAP / (46 * 75%).

As this file is indexed, 512 DB-KEYS must be reserved per page. Therefore, 512 * PP DB-KEYS must be allocated to the PAC7AP area.

PRODUCTION ENVIRONMENT INTERFACE (PEI)

The AB and AC files contain the same data. Therefore they should have the same amount of space:

(AB,XB)
(AC,XC) Let NAB be the number of records. A 4K-page contains up to 34 records. During loading, pages are filled at a 75 per cent rate. Thus, the required number of pages is:

PB = NAB / (34 * 75%)

As this file is indexed, 512 DB-KEYS must be reserved per page. Therefore, 512 * PB DB-KEYS must be allocated to the PAC7AB and PAC7AC areas.

ON-LINE WORK FILE

(AT) The AT file is used to save the screen when the HELP function is called, to save the work area for screen mapping and to save PAF data. Each page of 4,096 characters contains two records. NU being the number of users, the following calculations apply:

8 * NU / 2 pages for a VA Pac operation; plus
100 * NU / 10 pages for a PAF operation (on average). Therefore, 14 * NU pages are necessary.

The DMCL provides for 16 DB-KEYS per page. Therefore, (16 *14 * NU) must be allocated for the PAC7AT area.

EXAMPLE

For a database containing 16,200 data records, 30,520 indexes, 500 generation-print requests, 500 user parameters, and 3,680 transactions:

```
.DATA  (AR,BR)
   -number of pages : 16,200 / 27    = 600
   -allocation   AN : (600 * 64) / 2 = 19,200 DB-KEYS
                 AS : (600 * 64) / 2 = 19,200 DB-KEYS
   -size            : 0964 LLINKS  for PAC7AR
                      0964 LLINKS  for PAC7AS


.INDEX (AN,BN)
   -number of pages : 30,520 / 56    = 545 + 10% = 600
   -allocation   AN : (600 * 8)  / 2 = 2,400 DB-KEYS
                 AS : (600 * 8)  / 2 = 2,400 DB-KEYS
   -size            : 0964 LLINKS  for PAC7AN
                      0964 LLINKS  for PAC7AO


.GENERATION-PRINT REQUESTS (AG,XG)
   -number of pages : 500 / 24 * 75% = 28
   -allocation      : 28 * 512       = 14,336 DB-KEYS
   -size            : 0093 LLINKS


.JOURNAL (AJ)
   -number of pages : 3,680 / 23     = 160
   -allocation      : 160 * 32       = 5,120 DB-KEYS
   -size            : 0516 LLINKS


.ERROR MESSAGES (AE,XE)
     This file is rather stable. It contains VA Pac
     error messages and user parameters.
   -number of pages :                = 900
   -allocation      : 900 * 512      = 460,800 DB-KEYS
   -size            : 2884 LLINKS


.USER PARAMETERS (AP,XP)
   -number of pages : 500 / 46 * 75% = 15
   -allocation      : 15 * 512       = 7,680 DB-KEYS
   -size            : 0052 LLINKS
```

```
.PRODUCTION ENVIRONMENT INTERFACE (AB,XB and AC,XC)
   -number of pages : 500 / 34 * 75% = 20
   -allocation      : 20 * 512       = 10,240 DB-KEYS
   -size            : 0068 LLINKS


.SCREEN SAVE (AT)
   -number of pages : 5 * 8 / 2      = 20
   -PAF usage       : 5 * 100 / 10   = 50
   -allocation      : 70 * 16        = 1120 DB-KEYS
   -size            : 0228 LLINKS
```

The DMCL source provided at installation corresponds to this example except for the AT file-code area for which the PAF function is not taken into account (this explains the 20 pages allocation instead of 70).

SYSTEM SIZE

In order to establish the amount of disk space required by the VA Pac System, the following charts list each catalog and each file with its related size. Size values are the installation default values.

Including the installation examples, the global environment size is approximately 115,000 llinks when TP8 is used and 105,000 llinks when DMIV-TP is used.

SYSTEM FILES

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCS/$OBJBT.	BATCH PROGRAMS	15,000
$UMCS/$OBJTP.	ON-LINE PROGRAMS	8,000
$UMCS/$OBJ85.	COBOL-85 SUB-PROGRAMS	700
$UMCS/$BOB85.	PAF-PDM COBOL-85 PROGRAMS	1,500
$UMCS/$RUNS.	PAF-PDM & PACX RUN-UNITS	10,000
$UMCS/$SOURCE.	CATALOG OF SOURCES	1,100
$UMCS/$SCHEMA.	SCHEMA,SUB-SCHEMA	540
$UMCS/$FILS.AE0	VA PAC ERROR MESSAGES	2,500
$UMCS/$FILS.QC / YC	BATCH PROGRAM SKELETON	120
$UMCS/$FILS.QG / YG	OLSD-DBD SKELETON	1,600
$UMCS/$FILS.QP / YP	PAF-PDM VARIABLE SKELETON	110
$UMCS/$FILS.QR / YR	REVERSE SKELETON	100
$UMCS/$FILS.QS / XS	CLIENT/SERVER SKELETON	1,300
$UMCS/$FILS.SF	PAF-PDM FIXED SKELETON	300
$UMCS/$FILS.TEST	DATABASE BACKUP FOR TESTING PURPOSES	3,000
$UMCS/$FILS.OBJLIB	SUB-PROGRAM LIBRARY	700
$UMCS/$HSTAR.PACBA	GPRT MONITOR	550
$UMCS/$HSTAR.PACBB	GPRT MONITOR	650
$UMCS/$HSTAR.PACBD	GPRT MONITOR	600
$UMCS/$HSTAR.PACBE	GPRT MONITOR	1,100
$UMCS/$HSTAR.PACBG	GPRT MONITOR	1,100
$UMCS/$HSTAR.PACBK	GPRT MONITOR	700
$UMCS/$HSTAR.PACBL	GPRT MONITOR	850
$UMCS/$HSTAR.PACBM	GPRT MONITOR	530
$UMCS/$HSTAR.PACBN	GPRT MONITOR	1,100
$UMCS/$HSTAR.PACBP	GPRT MONITOR	850
$UMCS/$HSTAR.PACBQ	GPRT MONITOR	450
$UMCS/$HSTAR.PACBR	GPRT MONITOR	800
$UMCS/$HSTAR.PACBV	GPRT MONITOR	1,000
$UMCS/$HSTAR.PACBED	GPRT MONITOR	320
$UMCS/$HSTAR.PACDRV	GPRT DRIVER	70
$UMCS/$HSTAR.PACQ	PQCA MONITOR	1,000
$UMCU/$JCL.	JCL CATALOG	1,000
	TOTAL	: 59,240

ON-LINE FILES FOR DMIV/TP

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCT/$FILT.RC	RESTART CONTROL	60
$UMCT/$FILT.SW	SWAP	1,500
$UMCT/$FILT.DF	SYSTEM DUMP FILE	620
$UMCT/$FILT.J1	TP SYSTEM JOURNAL	500
$UMCT/$FILT.J2	TP SYSTEM JOURNAL	500
$UMCT/$FILT.TP-SYS	EXECUTABLE TP	600
$UMCT/$FILT.LOADMAP	TP LOADMAP	130
$UMCT/$FILT.TPR-OBJ	LIBRARY OF TPRs	18,000
	TOTAL	21,910

ON-LINE FILES FOR TP8

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCT/$FIL8.RC	RESTART CONTROL	1,000
$UMCT/$FIL8.SW	SWAP	5,000
$UMCT/$FIL8.TPRLIB	LIBRARY OF TPRs	25,000
$UMCT/$FIL8.WD-FILE	EXECUTABLE WORKSTATION	840
$UMCT/$FIL8.WE-FILE	"	420
	TOTAL	32,260

EVOLVING FILES

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCB/$BASE.AN	VA PAC INDEX	964
$UMCB/$BASE.BN	(FOR 30,520 INDEXES)	964
$UMCB/$BASE.AR	VA PAC DATA	964
$UMCB/$BASE.BR	(FOR 16,200 DATA)	964
$UMCB/$BASE.AG	GENERATION-PRINT REQUESTS	93
$UMCB/$BASE.XG	(FOR 500 REQUESTS)	10
$UMCB/$BASE.AE	VA PAC ERROR MESSAGES	2,884
$UMCB/$BASE.XE		60
$UMCB/$BASE.AJ	VA PAC JOURNAL	516
	(FOR 3,680 TRANSACTIONS)	
$UMCB/$BASE.AP	USER PARAMETERS	52
$UMCB/$BASE.XP	(FOR 500 RECORDS)	10
$UMCB/$BASE.AB	PEI/BATCH	68
$UMCB/$BASE.XB	(FOR 500 RECORDS)	10
$UMCB/$BASE.AC	PEI/ON-LINE	68
$UMCB/$BASE.XC	(FOR 500 RECORDS)	10
$UMCB/$BASE.AT	SCREEN STORAGE (PARM-PROD)	68
	(FOR 5 USERS)	
$UMCB/$BASE.DE	DSMS FUNCTION	7
$UMCB/$BASE.ED	-- --	10
$UMCB/$BASE.DH	-- --	10
$UMCB/$BASE.DC	-- --	7
$UMCB/$BASE.CD	-- --	10
$UMCB/$BASE.DA	-- --	7
$UMCB/$BASE.AD	-- --	7
$UMCB/$BASE.DX	-- --	7
$UMCB/$BASE.DJ	-- --	7
	TOTAL	7,757

BACKUP FILES

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCU/$FILU.SAVE0	SEQUENTIAL IMAGE OF THE	3,000
$UMCU/$FILU.SVAN0	DATABASE (FOR 30,520	40
$UMCU/$FILU.SAVE1	INDEXES AND 16,200 DATA)	3,000
$UMCU/$FILU.SVAN1		40
$UMCU/$FILU.SAVE-1		3,000
$UMCU/$FILU.SVAN-1		40
$UMCU/$FILU.SVAG0	SEQUENTIAL IMAGES OF THE	100
$UMCU/$FILU.SVAG1	GEN.-PRINT REQUEST FILE	100
$UMCU/$FILU.SVAG-1	(FOR 500 REQUESTS)	100
$UMCU/$FILU.ARCH0	ARCHIVED TRANSACTION FILE	1,000
$UMCU/$FILU.ARCH1	(FOR 7,400 TRANSACTIONS)	1,000
$UMCU/$FILU.ARCH-1		1,000
$UMCU/$FILU.ARCHPQ	DEACTIVATED TRANSACTIONS	500
$UMCU/$FILU.SVPE0	PEI BACKUP	100
$UMCU/$FILU.SVPE1		100
$UMCU/$FILU.SVPE-1		100
$UMCU/$FILU.PARM0	USER PARAMETER BACKUP	100
$UMCU/$FILU.PARM1		100
$UMCU/$FILU.PARM-1		100
	TOTAL	13,520

GENERATED FILES

(for about 1,500 lines)

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
$UMCU/$FILG.G6	RTF-format report	100
$UMCU/$FILG.GB	Databases	100
$UMCU/$FILG.GD	Data generation	100
$UMCU/$FILG.GE	On-line programs	100
$UMCU/$FILG.GG	Client generation	100
$UMCU/$FILG.GI	VA Pac/GIP interface	100
$UMCU/$FILG.GK	C/S error messages	100
$UMCU/$FILG.LK	"	100
$UMCU/$FILG.GL	User-defined err. mess.	100
$UMCU/$FILG.LG	"	100
$UMCU/$FILG.GN	Volume	100
$UMCU/$FILG.GP	Batch programs	100
$UMCU/$FILG.GQ	SQL generation	100
$UMCU/$FILG.GR	Pacreverse generation	100
$UMCU/$FILG.GT	Application revamping	100
$UMCU/$FILG.GV	Server generation	100
	TOTAL	1,500

USER INPUT FILES

PARAMETERIZED NAMES	CONTENTS	NUMBER LLINKS
Procedure input:		
$UMCU/$MB.ACTI	Activity analysis	1
$UMCU/$MB.ARCH	Archiving	1
$UMCU/$MB.CPSN	Sub-network comparison	1
$UMCU/$MB.CRYP	Password encryption	1
$UMCU/$MB.CSES	Session number compression	1
$UMCU/$MB.EMLD	User-def. err. mess. loading	1
$UMCU/$MB.EMSN	Sub-network extraction	1
$UMCU/$MB.EMUP	User-def. err. mess. update	1
$UMCU/$MB.ESES	Session number extraction	1
$UMCU/$MB.GETA	Table generation	1
$UMCU/$MB.GETI	Table initialization	1
$UMCU/$MB.GP&USER	Generation-print	1
$UMCU/$MB.GRPE	PEI reorganization	1
$UMCU/$MB.HIPE	Database freeze	1
$UMCU/$MB.INFP	FP file initialization	1
$UMCU/$MB.INPE	PEI initialization	1
$UMCU/$MB.IPIA	Impact analysis results	1
$UMCU/$MB.ISEP	Entry-point selection	1
$UMCU/$MB.ISOS	String and oper. selection	1
$UMCU/$MB.MLIB	Database management	1
$UMCU/$MB.PACX	General-purpose extractor	1
$UMCU/$MB.PAFX	User extractor	1
$UMCU/$MB.PARM	User parameters	1
$UMCU/$MB.PQCE	Pacbench Quality Control	1
$UMCU/$MB.PRGS	Extr. Master Path file print	1
$UMCU/$MB.PRPE	Prod. Environment print	1
$UMCU/$MB.QCA1	Pacbench Quality Control	1
$UMCU/$MB.QCA2	Pacbench Quality Control	1
$UMCU/$MB.REAG	Request restoraiton	1
$UMCU/$MB.REOR	Database reorganization	1
$UMCU/$MB.REST	Restoration	1
$UMCU/$MB.RESY	System restoration	1
$UMCU/$MB.RSPE	PEI restoration	1
$UMCU/$MB.SADM	SSADM Methodol. integrity	1

PARAMETERIZED NAMES	CONTENTS	SIZE (llink)
$UMCU/$MB.SASN	Sub-network backup	1
$UMCU/$MB.SAVE	Database backup	1
$UMCU/$MB.SIPE	Prod. Turnover simulation	1
$UMCU/$MB.SP&USER	SPAWN parameters	1
$UMCU/$MB.SVAG	Request save	1
$UMCU/$MB.SVPE	PEI save	1
$UMCU/$MB.TRDU	Pac/Transfer sets selection	1
$UMCU/$MB.TRJC	Parameters for compression	1
$UMCU/$MB.TRPF	Pac/Transfer sets selection	1
$UMCU/$MB.TRRP	Pac/Transfer selections	1
$UMCU/$MB.TRUP	Pac/Transfer parameters	1
$UMCU/$MB.UPDT	Update	1
$UMCU/$MB.VDWN	VA Smalltalk extraction	1
$UMCU/$MB.VINS	VA Smalltalk Dictio. update	1
$UMCU/$MB.VPUR	VA Pac purge	1
$UMCU/$MB.XPAF	Extr. Master Path validation	1
$UMCU/$MB.XPDM	Master Outline validation	1
$UMCU/$MB.YSMC	YSM methodol. integrity	1
	TOTAL :	53

PARAMETERIZED NAMES	CONTENTS	SIZE (llink)
Extractor output files (for about 300 transactions):		
$UMCU/$MV.CPSN	Sub-network comparison	20
$UMCU/$MV.EMSN	Sub-network extraction	100
$UMCU/$MV.ESES	Session number match	50
$UMCU/$MV.EXUE	Extraction in EXUE format	20
$UMCU/$MV.GETT	Table generation	20
$UMCU/$MV.GETT12	Table generation (1.2)	20
$UMCU/$MV.GPRT	Proxy. generation requests	20
$UMCU/$MV.GRPE	Prod. Environment generation	20
$UMCU/$MV.IPIA	Impact Analysis results	100
$UMCU/$MV.PBCOD	VA Smalltalk entity codes	20
$UMCU/$MV.PQCE	Pacbench Control Quality	80
$UMCU/$MV.REOR	Entities for REOR purge	20
$UMCU/$MV.RTLO	Invalid locks	20
$UMCU/$MV.SIPE	Prod. Environment simulation	20
$UMCU/$MV.TRRP	Pac/Transfer update	100
$UMCU/$MV.UPDP	Extraction in UPDP format	100
$UMCU/$MV.UPDT	Extraction in UPDT format	100
$UMCU/$MV.VISUAL	VA Smalltalk Extraction	100
$UMCU/$MV.VISUTI	VA Smalltalk useful transac.	100
$UMCU/$MV.VPUR	VA Smalltalk trans. purge	100
$UMCU/$MV.VUP2	VA Smalltalk UPDT transact.	100
	TOTAL :	1,230
Divers :		
$UMCU/$FILU.MACPSN	Libraries for comarison	300
$UMCU/$FILU.SLCPSN	(for about 1,500 lines)	300
$UMCU/$FILU.SASN	Sub-network backup	100
(+$UMCU/$FILU.SVSN)		5
$UMCU/$FILU.TD	Table descriptions	100
$UMCU/$FILU.YD	"	30
	TOTAL :	835

3.12. DMCL ADAPTATION

DMCL ADAPTATION

The DMCL source supplied with the product is the one used during testing. The only parameters which may be modified, in order to enlarge VA Pac files or modify the load-limit of indexed files, are:

```
ALLOCATE, RESERVE and LOAD_LIMIT
```

The RESERVE parameter defined for each area allows to avoid shifting the physical addresses (DBK) of the areas which are set after the modified one when the ALLOCATE parameter has been modified. This is done by subtracting the value added to ALLOCATE from RESERVE. In this case, the subsequent areas need not be backed up before the DMCL modification.

Important Note

If the value of the ALLOCATE parameter is modified for the PAC7AN area, it is mandatory to align the value of the RANGE parameter for the BE06 record.

Before any DMCL modification, the concerned files must be backed up with the following procedures:

MODIFIED AREA	PROCEDURE
PAC7AE or PAC7AP	PARM
PAC7AG	SVAG
PAC7AT	none
PAC7AB and PAC7AC	SVPE
PAC7AJ	ARCH
PAC7AR and PAC7AS	SAVE
PAC7AN and PAC7AO	SAVE

Once the DMCL procedure has been executed, execute PACA, PACB, PACC and PACD for the chain GPRT; execute SYSG if in DMIV-TP and PACQ for the PQC module.

The size of modified files is given in the DMCL procedure output (first part, report no. 02). The database manager must check that the addresses of modified areas are not changed in comparison with the output of the previous DMCL execution.

The size of modified areas must then be adapted. This is done by purging the corresponding files and by re- creating them with the parameter values defined in the FCPA parameter values defined in the FCPA procedure (ACCESS, MODE and PAGE SIZE for TP8), followed by the MFT8 procedure for TP8.

After the area modification(s), the concerned files must be restored with the following procedures:

MODIFIED AREA	PROCEDURE
PAC7AE or PAC7AP	LOAE
PAC7AG	REAG
PAC7AT	INAT
PAC7AB and PAC7AC	RSPE
PAC7AJ	INAJ + REST
PAC7AR and PAC7AS	REST
PAC7AN and PAC7AO	REST

NOTES

When the value of the RESERVE parameter of an AREA becomes negative because of an increase in the number of DBKs, the AREAs which follow the modified AREA must be backed up before execution of the DMCL procedure, allocated a sufficient number of DBKs, and, then, restored after execution.

In this case, if the DSMS module is available on-site, execute the backup and restoration procedures defined in the GCOS8 Operations Manual.

When the DSMS module is not available, only the INID procedure must be executed after execution of the DMCL procedure.

```
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   512
        PAGE_SIZE   4096
    LOAD_LIMIT IS   99
  ORGANIZATION IS   INDEXED
          RESERVE   189440.
AREA NAME IS SGDSDC
     FILE_CODE IS   "DC"
 KEY FILE_CODE IS   "CD"
         ALLOCATE   512
        PAGE_SIZE   4096
    LOAD_LIMIT IS   25
  ORGANIZATION IS   INDEXED
          RESERVE   486400.
AREA NAME IS SGDSDA
     FILE_CODE IS   "DA"
         ALLOCATE   4
    PAGE_INTERVAL   4
    CALC_INTERVAL   NULL
        PAGE_SIZE   4096
  ORGANIZATION IS   INTEGRATED
          RESERVE   3520.
AREA NAME IS SGDSAD
     FILE_CODE IS   "AD"
         ALLOCATE   128
    PAGE_INTERVAL   128
    CALC_INTERVAL   NULL
        PAGE_SIZE   4096
  ORGANIZATION IS   INTEGRATED
          RESERVE   62208.
AREA NAME IS SGDSDX
     FILE_CODE IS   "DX"
         ALLOCATE   4
    PAGE_INTERVAL   4
    CALC_INTERVAL   NULL
        PAGE_SIZE   4096
  ORGANIZATION IS   INTEGRATED
          RESERVE   1200.
AREA NAME IS SGDSDJ
     FILE_CODE IS   "DJ"
         ALLOCATE   32
    PAGE_INTERVAL   32
    CALC_INTERVAL   NULL
        PAGE_SIZE   4096
  ORGANIZATION IS   INTEGRATED
          RESERVE   26255.
AREA NAME IS SGDSDH
     FILE_CODE IS   "DH"
         ALLOCATE   4
    PAGE_INTERVAL   4
    CALC_INTERVAL   4
        PAGE_SIZE   4096
  ORGANIZATION IS   INTEGRATED
          RESERVE   80.
RECORD NAME IS BE01
```

```
  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.
```

4. INSTALLATION

4.1. INTRODUCTION

INTRODUCTION

IMPORTANT NOTE

The GCOS8, DMIV, IDSII and UFAS standard functions are used in the preparation, installation, and operation of the system.

Any modification of the JCL or the UMC structure must be done cautiously as this often causes problems that are difficult to solve.

Print-outs of the installation and test jobs must be kept.

Should a problem arise during system installation or operation, contact VisualAge Pacbase Support.

THE INSTALLATION PROCEDURE

The installation procedure is executed in 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 VA Pac described in this manual. This information is needed to prepare the required environment for the installation procedure.

PREPARATION

. Backup of the installation tape,

. Allocation of the temporary UMC $UMCI (60,000 llinks),

. Loading of the UMC from the installation tape,

. Adaptation of the JCL to the site's specific needs.

4.2. INSTALLATION TAPE

INSTALLATION TAPE

The installation tape (6,250 BPI) is the backup obtained from the FILSYS procedure from UMC $UMCI, and is the core of the VA Pac System.

CATALOG	CONTENTS
PACD/P250	VA PAC SYSTEM
INST	INSTALLATION ELEMENTS
	(PARAMETERIZED SOURCE FOR THE JCL GENERA-TION, PARAMETER MODIFICATION PROCEDURE)
BOBJ	BATCH OBJECT CATALOG
TOBJ	ON-LINE OBJECT CATALOG
OBJ85	COBOL-85 SUB-PROGRAMS OBJECT CATALOG
BOB85	PAF-PDM, PACX AND PAC/IMPACT
	COBOL-85 OBJECT CATALOG
FILE	CATALOG OF SYSTEM FILES
SPF	SYSTEM FILES (FRENCH)
SPE	SYSTEM FILES (ENGLISH)

UMC ALLOCATION

The UMC $UMCI (minimum size: 60,000 llinks for VA Pac alone) will be created in order to install on it the core of the new VA Pac release. This UMC must be granted a read access to the UMC's UMCU and $UMCS.

The UMC restoration is executed by the FILSYS utility using a tape provided by IBM:

JCL:

```
$      IDENT   XXXXXX,YYYYYY
$      FILSYS
$      PRIVITY
USERID $UMCI$PASSWORD
RESTORE PACBASE,NEWNAM/$UMCI/,RESET/DEVICE/,RESET/DENIED/
$      TAPE    PR,X1DD,,PACXX,,PACxxx,,DEN62
```

This UMC only contains the elements necessary for the installation. The user files used during the execution of procedures are automatically created.

4.3. COMPLETE JCL INSTALLATION

COMPLETE JCL INSTALLATION

The installation is executed in five steps:

1. Adaptation of the JCL to the site's specific needs:

   This is executed modifying the $UMCI/PACD/P250/INST/PARM file on the editor. (The default value of each parameter is replaced by the specific value it has on-site. The value of each parameter may not exceed 21 characters.)

   For more details on parameter modifications, refer to Chapter 'VA PAC COMPONENTS', Subchapter 'System Parameters'.

   JCL adaptation to GCOS8 releases is the result of taking into account four files that are already parameterized:
   $UMCI/PACD/P250/INST/P£4 where £4 is equal to 3000, 4000, 4000.4, 4020 or 4500.

2. Taking the modifications into account:

   The /PACD/P250/INST/UTI110 must be submitted (CRUN). This procedure has five parameters:

```
      UMC?     --> $UMCI
      IDENT?   --> $IDENT
      DEST?    --> $DEST
      RELEASE? --> 3000, 4000, 4000.4, 4020, 4500
      LANG?    --> $LANG
    (See the JCL at the end of the subchapter)
```

   The input of this procedure is a parameterized JCL flow. The output consists of a JCL stream ready for use, as well as a catalog creation JCL.

3. Creation of the UMC(s) needed by the system: $UMCB, $UMCS, $UMCT, $UMCU.

   UMCs initial sizes:

```
   $UMCB:   7,500 llinks
   $UMCS:  60,000 llinks
   $UMCT:  33,000 llinks if TP8
           22,000 llinks if DMIV-TP
   $UMCU:  15,000 llinks
```

The $UMCU UCM must have a write authorization for the following UCMs: $UMCB, $UMCS, $UMCT.

The size of $UMCB varies according to the size of the following areas: PAC7AR, PAC7AS, PAC7AN, PAC7AO and PAC7AJ.

The size of $UMCU varies according to both the size of the files with a $MV prefix and the size of the VA Pac Database backup file.

For authorizations reasons, it is best to be positioned on the $UMCU UMC to run the following jobs.

4. Creation of the system catalogs:

   Submission (JRN) of the $UMCI/PACD/P250/INST/CRCA procedure.

5. Submission of the flow generated by DRUN for the automatic creation of the JCL modules:

```
DRUN $UMCI/PACD/P250/INST/JCL;$UMCU/CR
```

   The execution of this job may take a long time. It may be followed by the 'DSTS nnnD' command.

   The execution review report contained in the $UMCU/CR file may be printed via a 'JPRINT'.

JCL INSTALLATION PROCEDURE

```
    ££;;(UMC?;IDENT?;DEST?;RELEASE?;LANG?)
    NEW
$NORM,J
    020$      IDENT   £2,£3
    030$      LOWLOAD
    040$      OPTION  CBL74,RELMEN
    050$      SELECT  £1/PACD/P250/BOBJ/UTI110
    060$      EXECUTE DUMP
    070$      LIMITS  50,25K
    080$      PRMFL   MR,R,S,£1/PACD/P250/SP£5/STREAM
    090$      PRMFL   FL,W,S,£1/PACD/P250/INST/JCL
    100$      PRMFL   CC,W,S,£1/PACD/P250/INST/CRCA
    110$      PRMFL   CA,R,S,£1/PACD/P250/INST/PARM
    120$      PRMFL   CB,R,S,£1/PACD/P250/INST/P£4
    130$      FILE    FI,NULL
    140$      ENDJOB
    COUT *NULL
    JRN
```

4.4. INSTALLATION PROCESS

INSTALLATION PROCESS

Once the JCL is obtained, the installation of the VA Pac system is executed in sixteen main steps:

1. Creation of system files,
2. Installation of batch files and programs,
3. Installation of on-line files and programs,
4. Sub-program library formatting,
5. DMCL adaptation and compilation,
6. VA Pac file creation,
7. Error message file restoration,
8. User parameter update,
9. Test database restoration,
10. Initialization of PEI and DSMS files,
11. Initialization of generation-printing request file,
12. Link-edit of the generation-print stream programs
13. Link-edit of PACX Extraction stream programs,
14. Link-edit of PACBENCH Quality Control (PQCA) programs,
15. Link-edit of Pac/Impact programs,
16. Generation of the VA Pac TP8 or DMIV-TP environment.

After installation, the installation complement includes the following steps:

- Update of PAF transactions
- Update of PACDESIGN parameters
- Update of PACDESIGN transactions
- Update of PQC transactions
- PAF-PDM: update of transactions & link-edit of programs
- Update of COBOL-85 transactions.

4.4.1. CREATION OF SYSTEM FILES

1. CREATION OF SYSTEM FILES

(See the JCL in the next subchapter)

The files are created by executing the FCRE procedure (JRN command).

The size of system files must be adjusted according to the size of the databases.

```
$      IDENT   $IDENT,$DEST.FCRE
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *             CREATION OF VISUALAGE PACBASE FILES    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      NOTE    *** H*                                             ***
$      FILSYS
USERID $UMCS$PWS
FC $UMCS/$HSTAR.PACBA,WRITE/$UMCU/,
        LLINKS/0550,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBB,WRITE/$UMCU/,
        LLINKS/0650,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBD,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBE,WRITE/$UMCU/,
        LLINKS/1100,1500/,MODE/RAND/
FC $UMCS/$HSTAR.PACBED,WRITE/$UMCU/,
        LLINKS/0320,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBG,WRITE/$UMCU/,
        LLINKS/1100,1500/,MODE/RAND/
FC $UMCS/$HSTAR.PACBK,WRITE/$UMCU/,
        LLINKS/0700,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBL,WRITE/$UMCU/,
        LLINKS/0850,1200/,MODE/RAND/
FC $UMCS/$HSTAR.PACBM,WRITE/$UMCU/,
        LLINKS/0524,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBN,WRITE/$UMCU/,
        LLINKS/1500,2000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBP,WRITE/$UMCU/,
        LLINKS/0850,1200/,MODE/RAND/
FC $UMCS/$HSTAR.PACBQ,WRITE/$UMCU/,
        LLINKS/0450,1000/,MODE/RAND/
FC $UMCS/$HSTAR.PACBR,WRITE/$UMCU/,
        LLINKS/0800,1200/,MODE/RAND/
FC $UMCS/$HSTAR.PACBV,WRITE/$UMCU/,
        LLINKS/1000,1500/,MODE/RAND/
FC $UMCS/$HSTAR.PACDRV,WRITE/$UMCU/,
        LLINKS/0070,0100/,MODE/RAND/
FC $UMCS/$HSTAR.PACQ,WRITE/$UMCU/,
        LLINKS/1000,1500/,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/700,700/,MODE/RAND/
$      NOTE    *** GENERATED FILES                                ***
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILG.EM$USER,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILG.GB$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GD$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GE$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GG$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GI$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GK$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GL$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GM$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GN$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GP$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GQ$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GR$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GT$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.GV$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.G6$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.LG$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.LK$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILG.ME$USER,READ,LLINKS/100,2000/,MODE/RAND/
$      GOTO    BDE$BDE
$ BDEN.
```

```
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.SAVE-1,READ,LLINKS/3000,60000/,MODE/RAND/
FC $UMCU/$FILU.SAVE0,READ,LLINKS/3000,60000/,MODE/RAND/
FC $UMCU/$FILU.SAVE1,READ,LLINKS/3000,60000/,MODE/RAND/
FC $UMCU/$FILU.SVAN-1,READ,LLINKS/40,100/,MODE/RAND/
FC $UMCU/$FILU.SVAN0,READ,LLINKS/40,100/,MODE/RAND/
FC $UMCU/$FILU.SVAN1,READ,LLINKS/40,100/,MODE/RAND/
FC $UMCU/$FILU.ARCH-1,READ,LLINKS/1000,20000/,MODE/RAND/
FC $UMCU/$FILU.ARCH0,READ,LLINKS/1000,20000/,MODE/RAND/
FC $UMCU/$FILU.ARCH1,READ,LLINKS/1000,20000/,MODE/RAND/
FC $UMCU/$FILU.ARCHPQ,READ,LLINKS/500,10000/,MODE/RAND/
FC $UMCU/$FILU.SVAG-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVAG0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVAG1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.PARM-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.PARM0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.PARM1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVPE-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVPE0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVPE1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SASN,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.SVSN,READ,LLINKS/5,10/,MODE/RAND/
FC $UMCU/$FILU.CRII-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.CRII0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.CRII1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.CRIR-1,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILU.CRIR0,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILU.CRIR1,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILU.CRIT-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.CRIT0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.CRIT1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.RESU-1,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.RESU0,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.RESU1,READ,LLINKS/100,2000/,MODE/RAND/
$      GOTO    FBDE
$ BDEO.
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.SAVE-1,DEVICE/TAPE9,PAC01,DEN62/
FC $UMCU/$FILU.SAVE0,DEVICE/TAPE9,PAC02,DEN62/
FC $UMCU/$FILU.SAVE1,DEVICE/TAPE9,PAC03,DEN62/
FC $UMCU/$FILU.SVAN-1,DEVICE/TAPE9,PAC04,DEN62/
FC $UMCU/$FILU.SVAN0,DEVICE/TAPE9,PAC05,DEN62/
FC $UMCU/$FILU.SVAN1,DEVICE/TAPE9,PAC06,DEN62/
FC $UMCU/$FILU.ARCH-1,DEVICE/TAPE9,PAC07,DEN62/
FC $UMCU/$FILU.ARCH0,DEVICE/TAPE9,PAC08,DEN62/
FC $UMCU/$FILU.ARCH1,DEVICE/TAPE9,PAC09,DEN62/
FC $UMCU/$FILU.ARCHPQ,DEVICE/TAPE9,PAC10,DEN62/
FC $UMCU/$FILU.SVAG-1,DEVICE/TAPE9,PAC11,DEN62/
FC $UMCU/$FILU.SVAG0,DEVICE/TAPE9,PAC12,DEN62/
FC $UMCU/$FILU.SVAG1,DEVICE/TAPE9,PAC13,DEN62/
FC $UMCU/$FILU.PARM-1,DEVICE/TAPE9,PAC14,DEN62/
FC $UMCU/$FILU.PARM0,DEVICE/TAPE9,PAC15,DEN62/
FC $UMCU/$FILU.PARM1,DEVICE/TAPE9,PAC16,DEN62/
FC $UMCU/$FILU.SVPE-1,DEVICE/TAPE9,PAC17,DEN62/
FC $UMCU/$FILU.SVPE0,DEVICE/TAPE9,PAC18,DEN62/
FC $UMCU/$FILU.SVPE1,DEVICE/TAPE9,PAC19,DEN62/
FC $UMCU/$FILU.SASN,DEVICE/TAPE9,PAC20,DEN62/
FC $UMCU/$FILU.SVSN,DEVICE/TAPE9,PAC21,DEN62/
FC $UMCU/$FILU.CRII-1,DEVICE/TAPE9,PAC22,DEN62/
FC $UMCU/$FILU.CRII0,DEVICE/TAPE9,PAC23,DEN62/
FC $UMCU/$FILU.CRII1,DEVICE/TAPE9,PAC24,DEN62/
FC $UMCU/$FILU.CRIR-1,DEVICE/TAPE9,PAC25,DEN62/
FC $UMCU/$FILU.CRIR0,DEVICE/TAPE9,PAC26,DEN62/
FC $UMCU/$FILU.CRIR1,DEVICE/TAPE9,PAC27,DEN62/
FC $UMCU/$FILU.CRIT-1,DEVICE/TAPE9,PAC28,DEN62/
FC $UMCU/$FILU.CRIT0,DEVICE/TAPE9,PAC29,DEN62/
FC $UMCU/$FILU.CRIT1,DEVICE/TAPE9,PAC30,DEN62/
FC $UMCU/$FILU.RESU-1,DEVICE/TAPE9,PAC31,DEN62/
FC $UMCU/$FILU.RESU0,DEVICE/TAPE9,PAC32,DEN62/
FC $UMCU/$FILU.RESU1,DEVICE/TAPE9,PAC33,DEN62/
$ FBDE.
```

```
$      NOTE    *** EXTRACTION OUTPUT FILES                          ***
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$MV.CPSN,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.EMSN,READ,LLINKS/100,400/,MODE/RAND/
FC $UMCU/$MV.ESES,READ,LLINKS/50,400/,MODE/RAND/
FC $UMCU/$MV.EXUE,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.GETT,READ,LLINKS/20,400/,MODE/RAND/
FC $UMCU/$MV.GETT12,READ,LLINKS/20,400/,MODE/RAND/
FC $UMCU/$MV.GPRT,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.GRPE,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.IPIA,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.PBCOD,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.REOR,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.RTLO,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.SIPE,READ,LLINKS/20,400/,MODE/SEQ/
FC $UMCU/$MV.TRRP,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.UPDP,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$MV.UPDT,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.VISUAL,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.VISUTI,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.VPUR,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$MV.VUP2,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILU.MACPSN,READ,LLINKS/300,6000/,MODE/RAND/
FC $UMCU/$FILU.SLCPSN,READ,LLINKS/300,6000/,MODE/RAND/
FC $UMCU/$FILU.TD,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.YD,READ,LLINKS/30,600/,MODE/RAND/
$      NOTE    *** USER'S EXTRACTION FILES                          ***
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILX/$EXT.SO$USER,READ,LLINKS/100,2000/,MODE/SEQ/
FC $UMCU/$FILX/$EXT.SQ$USER,READ,LLINKS/100,2000/,MODE/SEQ/
$      NOTE    *** RETRIEVAL FILES                                  ***
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.GS,READ,LLINKS/500,10000/,MODE/RAND/
FC $UMCU/$FILU.YS,READ,LLINKS/50,1000/,MODE/RAND/
$      NOTE    *** IMPACT ANALYSIS                                  ***
$      FILSYS
USERID $UMCU$PWU
FC $UMCU/$FILU.FP,READ,LLINKS/100,2000/,MODE/RAND/
FC $UMCU/$FILU.PF,READ,LLINKS/50,1000/,MODE/RAND/
$      NOTE    *** CHANGE OF RUTI SUTI ADRUS PROCEDURE'S NAME       ***
$      FILSYS
USERID $UMCU$PWU
 IGNORE ERRS
CPOS $UMCU/$JCL
MF RUTI,NEWNAM/R$USER/
MF SUTI,NEWNAM/S$USER/
MF ADRUS,NEWNAM/ADRU/
$      UTL8
$      PRMFL   I1,R,R,$UMCI/PACD/P250/FILE/DUMMY
$      PRMFL   I2,R,S,$UMCI/PACD/P250/FILE/LGUSER
$      PRMFL   I3,R,S,$UMCI/PACD/P250/FILE/LkUSER
$      PRMFL   I4,R,R,$UMCI/PACD/P250/FILE/GS
$      PRMFL   I5,R,R,$UMCI/PACD/P250/FILE/YS
$      PRMFL   O0,W,R,$UMCU/$FILU.RESU0
$      PRMFL   O1,W,R,$UMCU/$FILU.SVAN0
$      PRMFL   O2,W,R,$UMCU/$FILU.SVAN1
$      PRMFL   O3,W,R,$UMCU/$FILU.SVAN-1
$      PRMFL   O4,W,R,$UMCU/$FILU.SAVE0
$      PRMFL   O5,W,R,$UMCU/$FILU.PARM0
$      PRMFL   O6,W,R,$UMCU/$FILU.SVPE0
$      PRMFL   O7,W,R,$UMCU/$FILU.ARCH0
$      PRMFL   O8,W,R,$UMCU/$FILU.SVAG0
$      PRMFL   O9,W,R,$UMCS/$FILS.DUMMY
$      PRMFL   P1,W,S,$UMCU/$FILG.LG$USER
$      PRMFL   Q1,W,S,$UMCU/$FILG.LK$USER
$      PRMFL   R1,W,R,$UMCU/$FILU.GS
$      PRMFL   R2,W,R,$UMCU/$FILU.YS
U8FD I4,UIND/I5.
U8FD O0,UFF,CISZ/8192,FLR/260.
U8FD O1,UFF,CISZ/16128,FLR/151.
```

```
U8FD O2,UFF,CISZ/16128,FLR/151.
U8FD O3,UFF,CISZ/16128,FLR/151.
U8FD O4,UFF,CISZ/16128,FLR/151.
U8FD O5,UFF,CISZ/11264,FLR/80.
U8FD O6,UFF,CISZ/10496,FLR/110.
U8FD O7,UFF,CISZ/9413,FLR/167.
U8FD O8,UFF,CISZ/15870,FLR/150.
U8FD R1,UIND/R2.
READ I1.
WRITE O0.
WRITE O1.
WRITE O2.
WRITE O3.
WRITE O4.
WRITE O5.
WRITE O6.
WRITE O7.
WRITE O8.
WRITE O9.
READ I2 WRITE P1.
READ I3 WRITE Q1.
READ I4 ILOAD R1.
$      CONVER
$      DATA    IN
***** FCRE - NORMAL END OF RUN *****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$      ENDJOB
```

4.4.2. INSTALLATION OF BATCH FILES AND PROGRAMS

2. INSTALLATION OF BATCH FILES AND PROGRAMS

(See the JCL in the next subchapter)

The installation of batch files and programs is executed by the COBA procedure (DRUN).

```
    COPY INDEX=$UMCU/$JCL.COBAX
```

```
    $UMCI/PACD/P250/BOBJ/PACABE      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACA05      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACA10      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACA15      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACA20      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACA90      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBA       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBB       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBD       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBE       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBED      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBG       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBK       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBL       $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACBN       $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACBQ       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBR       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACBV       $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACB30      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACB80      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACB80      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACD90      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACE40      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACINS      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACK30      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACQ30      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACR01      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACR20      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACR22      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACR30      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PACR60      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PACR61      $UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PTU220	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU240	$UMCS/$OBJBT.

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    $UMCI/PACD/P250/BOBJ/PTU810      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PTU815      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PTU850      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PTU855      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PTU908      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA100      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA110      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA300      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA305      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA310      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PVA320      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/PYSMC2      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/PYSMC3      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/REP2PJ      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/SIABBA      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/SIABLO      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/SIABTP      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/SPABLO      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/SPABPA      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOBJ/UTI130      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/ZARS12      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/ZAR100      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/ZAR200      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/ZAR400      $UMCS/$OBJBT.
    $UMCI/PACD/P250/BOBJ/ZAR980      $UMCS/$OBJBT.
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    $UMCI/PACD/P250/BOB85/PACS80     $UMCS/$BOB85.
    $UMCI/PACD/P250/BOB85/PACX       $UMCS/$BOB85.
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    $UMCI/PACD/P250/BOB85/SPABPB     $UMCS/$BOB85.
    $UMCI/PACD/P250/OBJ85/PBBTST     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/PBBTWS     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/PBTPST     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/PBTPWS     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/SPABPA     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/SPABPB     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/SPAFPA     $UMCS/$OBJ85.
    $UMCI/PACD/P250/OBJ85/ZAR980     $UMCS/$OBJ85.
    $UMCI/PACD/P250/FILE/PACBB       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBD       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBE       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBG       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBK       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBL       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBM       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBN       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBP       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBQ       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBR       $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/PACBV       $UMCS/$FILS.
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    $UMCI/PACD/P250/FILE/YP          $UMCS/$FILS.
    $UMCI/PACD/P250/FILE/SF          $UMCS/$FILS.
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    $UMCI/PACD/P250/SP$LANG/QR       $UMCS/$FILS.
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    $UMCI/PACD/P250/SP$LANG/QS       $UMCS/$FILS.
    $UMCI/PACD/P250/SP$LANG/XS       $UMCS/$FILS.
    $UMCI/PACD/P250/SP$LANG/TEST     $UMCS/$FILS.
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    $UMCI/PACD/P250/FILE/CSTPAC      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/DMCL        $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/DGADM       $UMCU/$MB.DADM
    $UMCI/PACD/P250/FILE/DGIFWP      $UMCU/$MB.DIFWP
    $UMCI/PACD/P250/FILE/DGYSM       $UMCU/$MB.DYSM
    $UMCI/PACD/P250/FILE/MBARCH      $UMCU/$MB.ARCH
    $UMCI/PACD/P250/FILE/MBCPSN      $UMCU/$MB.CPSN
    $UMCI/PACD/P250/FILE/MBCRYP      $UMCU/$MB.CRYP
    $UMCI/PACD/P250/FILE/MBCSES      $UMCU/$MB.CSES
    $UMCI/PACD/P250/FILE/MBEMLD      $UMCU/$MB.EMLD
    $UMCI/PACD/P250/FILE/MBESES      $UMCU/$MB.ESES
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    $UMCI/PACD/P250/FILE/MBINFP      $UMCU/$MB.INFP
    $UMCI/PACD/P250/FILE/MBINPE      $UMCU/$MB.INPE
    $UMCI/PACD/P250/FILE/MBIPFQ      $UMCU/$MB.IPFQ
    $UMCI/PACD/P250/FILE/MBIPIA      $UMCU/$MB.IPIA
    $UMCI/PACD/P250/FILE/MBISEP      $UMCU/$MB.ISEP
    $UMCI/PACD/P250/FILE/MBISOS      $UMCU/$MB.ISOS
```

$UMCI/PACD/P250/FILE/MBMLIB	$UMCU/$MB.MLIB
$UMCI/PACD/P250/FILE/MBPQCE	$UMCU/$MB.PQCE
$UMCI/PACD/P250/FILE/MBPRGS	$UMCU/$MB.PRGS
$UMCI/PACD/P250/FILE/MBPRPE	$UMCU/$MB.PRPE
$UMCI/PACD/P250/FILE/MBQCA2	$UMCU/$MB.QCA2
$UMCI/PACD/P250/FILE/MBQREO	$UMCU/$MB.QREO
$UMCI/PACD/P250/FILE/MBREAG	$UMCU/$MB.REAG
$UMCI/PACD/P250/FILE/MBREOR	$UMCU/$MB.REOR
$UMCI/PACD/P250/FILE/MBRSPE	$UMCU/$MB.RSPE
$UMCI/PACD/P250/FILE/MBSADM	$UMCU/$MB.SADM
$UMCI/PACD/P250/FILE/MBSAVE	$UMCU/$MB.SAVE
$UMCI/PACD/P250/FILE/MBSPWN	$UMCU/$MB.SP$USER
$UMCI/PACD/P250/FILE/MBSVAG	$UMCU/$MB.SVAG
$UMCI/PACD/P250/FILE/MBSVPE	$UMCU/$MB.SVPE
$UMCI/PACD/P250/FILE/MBTRDU	$UMCU/$MB.TRDU
$UMCI/PACD/P250/FILE/MBTRJC	$UMCU/$MB.TRJC
$UMCI/PACD/P250/FILE/MBTRPF	$UMCU/$MB.TRPF
$UMCI/PACD/P250/FILE/MBTRRP	$UMCU/$MB.TRRP
$UMCI/PACD/P250/FILE/MBTRUP	$UMCU/$MB.TRUP
$UMCI/PACD/P250/FILE/MBUPDT	$UMCU/$MB.UPDT
$UMCI/PACD/P250/FILE/MBVDWN	$UMCU/$MB.VDWN
$UMCI/PACD/P250/FILE/MBVINS	$UMCU/$MB.VINS
$UMCI/PACD/P250/FILE/MBVPUR	$UMCU/$MB.VPUR
$UMCI/PACD/P250/FILE/MBYSMC	$UMCU/$MB.YSMC
$UMCI/PACD/P250/SP$LANG/DGIFW	$UMCU/$MB.DIFW
$UMCI/PACD/P250/SP$LANG/DGMER	$UMCU/$MB.DMER
$UMCI/PACD/P250/SP$LANG/DGOMT	$UMCU/$MB.DOMT
$UMCI/PACD/P250/SP$LANG/MBACTI	$UMCU/$MB.ACTI
$UMCI/PACD/P250/SP$LANG/MBCBL85	$UMCU/$MB.CBL85
$UMCI/PACD/P250/SP$LANG/MBEMSN	$UMCU/$MB.EMSN
$UMCI/PACD/P250/SP$LANG/MBEMUP	$UMCU/$MB.EMUP
$UMCI/PACD/P250/SP$LANG/MBGETI	$UMCU/$MB.GETI
$UMCI/PACD/P250/SP$LANG/MBGPRT	$UMCU/$MB.GP$USER
$UMCI/PACD/P250/SP$LANG/MBMESN	$UMCU/$MB.MESN
$UMCI/PACD/P250/SP$LANG/MBPACX	$UMCU/$MB.PACX
$UMCI/PACD/P250/SP$LANG/MBPAFX	$UMCU/$MB.PAFX
$UMCI/PACD/P250/SP$LANG/MBPARM	$UMCU/$MB.PARM
$UMCI/PACD/P250/SP$LANG/MBPGDP	$UMCU/$MB.PGDP
$UMCI/PACD/P250/SP$LANG/MBQCA1	$UMCU/$MB.QCA1
$UMCI/PACD/P250/SP$LANG/MBREST	$UMCU/$MB.REST
$UMCI/PACD/P250/SP$LANG/MBRESY	$UMCU/$MB.RESY
$UMCI/PACD/P250/SP$LANG/MBSASN	$UMCU/$MB.SASN
$UMCI/PACD/P250/SP$LANG/MBSIPE	$UMCU/$MB.SIPE
$UMCI/PACD/P250/SP$LANG/MBUPQC	$UMCU/$MB.UPQC
$UMCI/PACD/P250/SP$LANG/MBUTI	$UMCU/$MB.UTI
$UMCI/PACD/P250/SP$LANG/MBXPAF	$UMCU/$MB.XPAF
$UMCI/PACD/P250/SP$LANG/MBXPDM	$UMCU/$MB.XPDM
$UMCI/PACD/P250/SP$LANG/PAFDIC	$UMCU/$MB.PAFD
$UMCI/PACD/P250/SP$LANG/PAFTST	$UMCU/$MB.PAFT
$UMCI/PACD/P250/SP$LANG/PAADM	$UMCU/$MB.PAADM
$UMCI/PACD/P250/SP$LANG/PAIFW	$UMCU/$MB.PAIFW
$UMCI/PACD/P250/SP$LANG/PAMER	$UMCU/$MB.PAMER
$UMCI/PACD/P250/SP$LANG/PAOMT	$UMCU/$MB.PAOMT
$UMCI/PACD/P250/SP$LANG/PAYSM	$UMCU/$MB.PAYSM
$UMCI/PACD/P250/FILE/1STAR	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPA	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPB	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPE	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPG	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPM	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSPT	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/SSSG	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPA	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPB	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPE	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPG	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPM	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARPT	$UMCS/$SCHEMA.
$UMCI/PACD/P250/FILE/CSTARSG	$UMCS/$SCHEMA.

4.4.3. INSTALLATION OF ON-LINE FILES AND PROGRAMS

3. INSTALLATION OF ON-LINE FILES AND PROGRAMS

(See the JCL in the next subchapter)

The installation of on-line files and programs is executed by the COTP procedure (DRUN).

The $UMCI UMC may be deleted at the end of this step if it is not used as a System UMC.

```
    COPY INDEX=$UMCU/$JCL.COTPX
```

```
    $UMCI/PACD/P250/TOBJ/DSRYSG      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPAA0      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA01      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA10      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA11      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA12      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA13      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA14      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA15      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA16      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA17      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA18      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA19      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA21      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA22      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA30      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA31      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA32      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA33      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA34      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPA35      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPBND      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQAA0      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAPHLP      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQA00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQB00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQCHX      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQC00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQC01      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQC50      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQD00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQE00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQF00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQF10      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQG00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQH00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQH01      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQH20      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQH30      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI01      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI02      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI03      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI04      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI05      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI20      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI21      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQI50      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQK10      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQK20      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQK30      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL10      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL20      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL21      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL30      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL40      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL41      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL45      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQL46      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQM00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP00      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP01      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP02      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP03      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP04      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP05      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP06      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP07      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP08      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQP50      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQRYA      $UMCS/$OBJTP.
    $UMCI/PACD/P250/TOBJ/ZAQRYE      $UMCS/$OBJTP.
```

$UMCI/PACD/P250/TOBJ/ZAQRYG	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQRYM	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQRYT	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQR00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS04	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS06	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS08	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT50	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQX00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQX01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY04	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY11	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQZ00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ000	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ100	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ101	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ102	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ103	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ104	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ200	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ210	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ300	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ400	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ500	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ600	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ700	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ800	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ900	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ990	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAR500	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAR600	$UMCS/$OBJTP.
$UMCI/PACD/P250/FILE/DSRYSG	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/HPFORM	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/O-CTE	$UMCT/$FILT.
$UMCI/PACD/P250/FILE/O-US	$UMCT/$FILT.O-USEND
$UMCI/PACD/P250/FILE/S-CTE	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/S-US	$UMCS/$SOURCE.S-USEND
$UMCI/PACD/P250/FILE/SCRCODIF	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRDEC	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRIOPAR	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRMFO	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRPEINT	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRSAISI	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAPAA0	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQAA0	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQRYA	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQRYE	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQRYG	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQRYM	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZAQRYT	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARBUR	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARCII	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARCVS	$UMCS/$SOURCE.

```
    $UMCI/PACD/P250/FILE/ZARDEC      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARDE2      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARG7       $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARG8       $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARICL      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARMFO      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARMF1      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARS12      $UMCS/$SOURCE.
    $UMCI/PACD/P250/FILE/ZARTRM      $UMCS/$SOURCE.
```

4.4.4. SUB-PROGRAM LIBRARY FORMATTING

4. SUB-PROGRAM LIBRARY FORMATTING

(See the JCL in the next subchapter)

The sub-programs called (CALL) in programs are grouped together in a library. This library is created by submitting the RAND procedure.

The sub-program library is read at each TPR 'LINK', as well as during the execution of VA Pac procedures.

```
$      IDENT   $IDENT,$DEST.RAND
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *          CREATION OF THE SUB-PROGRAM LIBRARY       *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      PROGRAM RANLIB
$      PRMFL   A4,W,R,$UMCS/$FILS.OBJLIB
$      DATA    R*,COPY
$      SELECTD $UMCS/$OBJBT.PACABE
$      SELECTD $UMCS/$OBJBT.PACA90
$      SELECTD $UMCS/$OBJBT.PACF10
$      SELECTD $UMCS/$OBJBT.PACN90
$      SELECTD $UMCS/$OBJBT.PACSEP
$      SELECTD $UMCS/$OBJBT.PBBTST
$      SELECTD $UMCS/$OBJBT.PBBTWS
$      SELECTD $UMCS/$OBJBT.PBTPST
$      SELECTD $UMCS/$OBJBT.PBTPWS
$      SELECTD $UMCS/$OBJBT.SIABBA
$      SELECTD $UMCS/$OBJBT.SPABLO
$      SELECTD $UMCS/$OBJBT.SPABPA
$      SELECTD $UMCS/$OBJBT.SPABPB
$      SELECTD $UMCS/$OBJBT.SPABPE
$      SELECTD $UMCS/$OBJBT.SPABPG
$      SELECTD $UMCS/$OBJBT.SPABPM
$      SELECTD $UMCS/$OBJBT.SPABPT
$      SELECTD $UMCS/$OBJBT.SPAFPA
$      SELECTD $UMCS/$OBJBT.ZARS12
$      SELECTD $UMCS/$OBJBT.ZAR100
$      SELECTD $UMCS/$OBJBT.ZAR200
$      SELECTD $UMCS/$OBJBT.ZAR400
$      SELECTD $UMCS/$OBJBT.ZAR980
$      ENDCOPY
$      ENDJOB
```

4.4.5. DMCL COMPILATION

5. DMCL COMPILATION

(See the JCL in the next subchapter)

Once the DMCL source is adapted according to the expected number of records in the VA Pac files, it must be validated by the DMCL procedure. (See Chapter "ENVIRONMENT", Subchapters "DMCL ADAPTATION" and "FILE SIZE").

CAUTION:

If you are integrating DSMS into VA Pac, do not forget to align the allocated sizes to the DSMS areas:

SGDSDE, SGDSDC, SGDSDA, SGDSAD, SGDSDX, SGDSDJ, SGDSDH.

```
$      IDENT   $IDENT,$DEST.DMCL
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *              DMCL COMPILATION AND                  *
$      NOTE    *              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.SSPB
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPB
$      IDS2
$      LIMITS  ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL   1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPE
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPE
$      IDS2
$      LIMITS  ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL   1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPG
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPG
$      IDS2
$      LIMITS  ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL   1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPM
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPM
$      IDS2
$      LIMITS  ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL   1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPT
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPT
$      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
$      IDS2
$      LIMITS  ,150K
DBACS VALID COBOL SUBSCHEMA END
$      PRMFL   1*,W,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPA
$      PRMFL   C*,W,S,$UMCS/$SCHEMA.CSTARPA
$      ENDJOB
```

4.4.6. DATABASE FILE CREATION

6. VA PAC FILE CREATION

(See the JCL in the next subchapter)

The size of the files is specified in the results of the DMCL compilation. At installation and for each DMCL modification, the files must be re-created via the FCPA procedure after having adjusted their sizes.

```
$      IDENT   $IDENT,$DEST.FCPA
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *            CREATION OF THE DATABASE FILES          *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCB$PWB
 IGNORE ERRS
FP $UMCB/$BASE.AN
FP $UMCB/$BASE.BN
FP $UMCB/$BASE.AR
FP $UMCB/$BASE.BR
FP $UMCB/$BASE.AE
FP $UMCB/$BASE.XE
FP $UMCB/$BASE.AG
FP $UMCB/$BASE.XG
FP $UMCB/$BASE.AJ
FP $UMCB/$BASE.AB
FP $UMCB/$BASE.XB
FP $UMCB/$BASE.AC
FP $UMCB/$BASE.XC
FP $UMCB/$BASE.AP
FP $UMCB/$BASE.XP
FP $UMCB/$BASE.AT
FP $UMCBD/$BASD.DE
FP $UMCBD/$BASD.ED
FP $UMCBD/$BASD.DH
FP $UMCBD/$BASD.DA
FP $UMCBD/$BASD.AD
FP $UMCBD/$BASD.DC
FP $UMCBD/$BASD.CD
FP $UMCBD/$BASD.DX
FP $UMCBD/$BASD.DJ
FC $UMCB/$BASE.AR,WRITE/$UMCU/,LLINKS/0964/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.BR,WRITE/$UMCU/,LLINKS/0964/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AN,WRITE/$UMCU/,LLINKS/0964/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.BN,WRITE/$UMCU/,LLINKS/0964/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AE,WRITE/$UMCU/,LLINKS/2884/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.XE,WRITE/$UMCU/,LLINKS/0060/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AG,WRITE/$UMCU/,LLINKS/0093/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.XG,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AJ,WRITE/$UMCU/,LLINKS/0516/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AB,WRITE/$UMCU/,LLINKS/0068/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.XB,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AC,WRITE/$UMCU/,LLINKS/0068/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.XC,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AP,WRITE/$UMCU/,LLINKS/0052/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.XP,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCB/$BASE.AT,WRITE/$UMCU/,LLINKS/0068/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCBD/$BASD.DE,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCBD/$BASD.ED,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
        ACCESS/RWW/
FC $UMCBD/$BASD.DH,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
```

```
          ACCESS/RWW/
   FC $UMCBD/$BASD.DC,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
          ACCESS/RWW/
   FC $UMCBD/$BASD.CD,WRITE/$UMCU/,LLINKS/0010/,MODE/RAND/,
          ACCESS/RWW/
   FC $UMCBD/$BASD.DA,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
          ACCESS/RWW/
   FC $UMCBD/$BASD.AD,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
          ACCESS/RWW/
   FC $UMCBD/$BASD.DX,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
          ACCESS/RWW/
   FC $UMCBD/$BASD.DJ,WRITE/$UMCU/,LLINKS/0007/,MODE/RAND/,
          ACCESS/RWW/
   $      ENDJOB
```

4.4.7. ERROR MESSAGE FILE RESTORATION

7. ERROR MESSAGE FILE RESTORATION

(See the JCL in the next subchapter)

This step is executed through the LOAE procedure which uses the $UMCS/$FILS.AE0 file as input.

```
$      IDENT   $IDENT,$DEST.LOAE
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *             LOADING OF USER PARAMETERS             *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $UMCU/$JCL.PM0
$ PTU001.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU001
$      EXECUTE DUMP
$      LIMITS  ,13K
$      DATA    MB
$      ASCII
 NRREST
$      ENX
$      FILE    BM,C1S,1R
$ PACU80.
$      OPTION  CBL74
$      USE     .DIRTV,.DIBLD
$      NLOAD   .DIDYN
$      OPTION  LDLIB
$      EQUATE  .DIRTV/.DIDYN/,.DIBLD/.DBPKL/
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACU80
$      EXECUTE DUMP
$      LIMITS  ,60K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   AE,L,R,$UMCB/$BASE.AE
$      PRMFL   XE,L,R,$UMCB/$BASE.XE
$      PRMFL   AP,L,R,$UMCB/$BASE.AP
$      PRMFL   XP,L,R,$UMCB/$BASE.XP
$      PRMFL   LE,Q,R,$UMCS/$FILS.AE0
$      PRMFL   CE,Q,R,&PMI
$      FILE    MC,C1R
$      FILE    S1,,20R
$      SYSOUT  IJ,ORG
$      SYSOUT  EI,ORG
$      DATA    .U
FILE   FC/AP/,LOVI/10/,GOVI/20/
$      IF      20,ERROR
$ END.
$      CONVER
$      DATA    IN
**** LOAE - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

4.4.8. USER PARAMETER UPDATE

8. USER PARAMETER UPDATE

(See Chapter "UPDATING USER PARAMETERS")

CAUTION:

The system needs the user parameters corresponding to the VA Pac database in order to operate. The parameters must be loaded through the PARM procedure before any test is run.

Examples of PARM user input are given in the file UMCU/$MB.PARM.

```
-------------------------------------------------------
! IMPORTANT: THE VA PAC ACCESS KEY MUST BE ENTERED NOW  !
-------------------------------------------------------
```

```
$      IDENT   $IDENT,$DEST.PARM
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *               UPDATE OF USER PARAMETERS            *
$      NOTE    *                                                    *
$      NOTE    * ENTER USER INPUT IN                                *
$      NOTE    * $UMCU/$MB.PARM                                     *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      GLOBAL  MBFILE=($MB.PARM)
$      SELECT  $UMCU/$JCL.PM0
$ PTU001.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU001
$      EXECUTE DUMP
$      LIMITS  ,13K
$      PRMFL   MB,R,S,$UMCU/&MBFILE
$      FILE    BM,C1S,1R
$ PACU15.
$      OPTION  CBL74
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACU15
$      EXECUTE DUMP
$      LIMITS  ,65K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   AE,L,R,$UMCB/$BASE.AE
$      PRMFL   XE,L,R,$UMCB/$BASE.XE
$      PRMFL   AP,L,R,$UMCB/$BASE.AP
$      PRMFL   XP,L,R,$UMCB/$BASE.XP
$      PRMFL   EC,Q,R,&PMI
$      PRMFL   CE,L,R,&PMO
$      FILE    MC,C1S
$      SYSOUT  EI,ORG
$      SYSOUT  IJ,ORG
$      SYSOUT  DD,ORG
$      IF      20,ERROR
$      IF      30,FILSYS
$ PACU80.
$      OPTION  CBL74
$      USE     .DIRTV,.DIBLD
$      NLOAD   .DIDYN
$      OPTION  LDLIB
$      EQUATE  .DIRTV/.DIDYN/,.DIBLD/.DBPKL/
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACU80
$      EXECUTE DUMP
$      LIMITS  ,60K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   AE,L,R,$UMCB/$BASE.AE
$      PRMFL   XE,L,R,$UMCB/$BASE.XE
$      PRMFL   AP,L,R,$UMCB/$BASE.AP
$      PRMFL   XP,L,R,$UMCB/$BASE.XP
$      PRMFL   LE,Q,R,$UMCS/$FILS.AE0
$      PRMFL   CE,Q,R,&PMO
$      FILE    MC,C1R
$      FILE    S1,,20R
$      SYSOUT  IJ,ORG
$      SYSOUT  EI,ORG
$      DATA    .U
FILE   FC/AP/,LOVI/10/,GOVI/20/
$      IF      20,ERROR
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF     PM1,NEWNAM/PMFIL/
MF     PM-1,NEWNAM/PM1/
MF     PM0,NEWNAM/PM-1/
```

```
MF     PMFIL,NEWNAM/PM0/
$ END.
$      CONVER
$      DATA    IN
**** PARM - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

4.4.9. TEST DATABASE RESTORATION

9. TEST DATABASE RESTORATION

(See the JCL in next subchapter and in Chapter "DATABASE RESTORATION").

This step is executed by the RES1 procedure using as input the backup file $UMCS/$FILS.TEST supplied with the product.

```
$      IDENT   $IDENT,$DEST.RES1
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *              TEST DATABASE RELOADING               *
$      NOTE    *                                                    *
$      NOTE    *     THE INPUT FILE IS SUPPLIED WITH THE PRODUCT     *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ PTU001.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU001
$      EXECUTE DUMP
$      LIMITS  ,13K
$      DATA    MB
$      ASCII
 Y       E I   TEST300
$      ENX
$      FILE    BM,C1S,1R
$ Q2UTIL.
$      PROGRAM Q2UTIL
$      LIMITS  ,54K
$      PRMFL   AR,L,R,$UMCB/$BASE.AR
$      PRMFL   BR,L,R,$UMCB/$BASE.BR
$      PRMFL   AJ,L,R,$UMCB/$BASE.AJ
$      PRMFL   AN,L,R,$UMCB/$BASE.AN
$      PRMFL   BN,L,R,$UMCB/$BASE.BN
$      PRMFL   AT,L,R,$UMCB/$BASE.AT
$      DATA    I*
IDS2   INITIAL FC/AR/
IDS2   INITIAL FC/BR/
IDS2   INITIAL FC/AJ/
IDS2   INITIAL FC/AN/
IDS2   INITIAL FC/BN/
IDS2   INITIAL FC/AT/
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$ PTU400.
$      OPTION  CBL74
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PTU400
$      EXECUTE DUMP
$      LIMITS  ,65K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   AN,L,R,$UMCB/$BASE.AN
$      PRMFL   BN,L,R,$UMCB/$BASE.BN
$      PRMFL   AR,L,R,$UMCB/$BASE.AR
$      PRMFL   BR,L,R,$UMCB/$BASE.BR
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
$      PRMFL   AJ,L,R,$UMCB/$BASE.AJ
$      PRMFL   PC,Q,R,$UMCS/$FILS.TEST
$      FILE    PS,P1S,1R
$      FILE    MB,C1R
$      SYSOUT  DD,ORG
$      SYSOUT  EI,ORG
$      SYSOUT  EU,ORG
$      IF      20,ERROR
$ PTU420.
$      OPTION  CBL74
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PTU420
$      EXECUTE DUMP
$      LIMITS  ,55K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   AR,L,R,$UMCB/$BASE.AR
$      PRMFL   BR,L,R,$UMCB/$BASE.BR
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
```

```
$      FILE    OJ,J1S,10R
$      FILE    PS,P1R
$      SYSOUT  EI,ORG
$      SYSOUT  EU,ORG
$      IF      20,ERROR
$ ERROR.
$      ENDJOB
```

4.4.10. MISCELLANEOUS FILE INITIALIZATIONS

10. PEI AND DSMS FILE INITIALIZATION

PRODUCTION ENVIRONMENT INTERFACE

PEI files are initialized by the INPE procedure followed by the RSPE procedure (See Chapter "PRODUCTION ENVIRONMENT INTERFACE").

These two procedures now require user input. This input is a '*' line with a user code and password. The user must have an authorization level 3 for PEI (the input provided at installation is OK).

DSMS FUNCTION

DSMS files are initialized by the INID procedure.

```
$      IDENT   $IDENT,$DEST.INPE
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *                  P.E.I. FUNCTION                   *
$      NOTE    *                                                    *
$      NOTE    *               BACKUP INITIALIZATION                *
$      NOTE    *                                                    *
$      NOTE    * ENTER USER INPUT IN                                 *
$      NOTE    * $UMCU/$MB.INPE                                     *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $UMCU/$JCL.PE0
$ PTU001.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU001
$      EXECUTE DUMP
$      LIMITS  ,13K
$      PRMFL   MB,R,S,$UMCU/$MB.INPE
$      FILE    BM,C1S,1R
$ PACR01.
$      OPTION  CBL74
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACR01
$      EXECUTE DUMP
$      LIMITS  ,60K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   AR,Q,R,$UMCB/$BASE.AR
$      PRMFL   BR,Q,R,$UMCB/$BASE.BR
$      PRMFL   AN,Q,R,$UMCB/$BASE.AN
$      PRMFL   BN,Q,R,$UMCB/$BASE.BN
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
$      PRMFL   PP,L,R,&PEO
$      FILE    MB,C1R
$      FILE    S1,,50R
$      SYSOUT  IB,ORG
$      SYSOUT  DD,ORG
$      SYSOUT  EI,ORG
$      IF      20,ERROR
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF   PE1,NEWNAM/PEFIL/
MF   PE-1,NEWNAM/PE1/
MF   PE0,NEWNAM/PE-1/
MF   PEFIL,NEWNAM/PE0/
$ END.
$      CONVER
$      DATA    IN
******* INPE - NORMAL END OF RUN ******
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.RSPE
$      NOTE    ********************************************************
$      NOTE    * VisualAge Pacbase                                    *
$      NOTE    * =================                                    *
$      NOTE    *                                                      *
$      NOTE    *                     P.E.I. FUNCTION                  *
$      NOTE    *                                                      *
$      NOTE    *                     FILE RESTORATION                 *
$      NOTE    *                                                      *
$      NOTE    * ENTER USER INPUT IN                                  *
$      NOTE    * $UMCU/$MB.RSPE                                       *
$      NOTE    *                                                      *
$      NOTE    ********************************************************
$      SELECT  $UMCU/$JCL.PE0
$ PTU001.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU001
$      EXECUTE DUMP
$      LIMITS  ,13K
$      PRMFL   MB,R,S,$UMCU/$MB.RSPE
$      FILE    BM,C1S,1R
$ PACR61.
$      OPTION  CBL74
$      USE     .DIBLD
$      OPTION  LDLIB
$      EQUATE  .DIBLD/.DBPKL/
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACR61
$      EXECUTE DUMP
$      LIMITS  ,65K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   AB,L,R,$UMCB/$BASE.AB
$      PRMFL   XB,L,R,$UMCB/$BASE.XB
$      PRMFL   AC,L,R,$UMCB/$BASE.AC
$      PRMFL   XC,L,R,$UMCB/$BASE.XC
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
$      PRMFL   AR,Q,R,$UMCB/$BASE.AR
$      PRMFL   BR,Q,R,$UMCB/$BASE.BR
$      PRMFL   PP,Q,R,&PEI
$      FILE    MB,C1R
$      SYSOUT  IF,ORG
$      SYSOUT  DD,ORG
$      SYSOUT  EI,ORG
$      DATA    .U
FILE   FC/AB/,LOVI/10/,GOVI/20/
FILE   FC/AC/,LOVI/10/,GOVI/20/
$      IF      20,ERROR
$ END.
$      CONVER
$      DATA    IN
******* RSPE - NORMAL END OF RUN ******
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.INID
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *             INITIALIZATION OF DSMS FILES           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ UTI130.
$      OPTION  CBL74
$      USE     .DIBLD
$      OPTION  LDLIB
$      EQUATE  .DIBLD/.DBPKL/
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.UTI130
$      EXECUTE DUMP
$      LIMITS  ,60K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARSG
$      PRMFL   DC,L,R,$UMCBD/$BASD.DC
$      PRMFL   CD,L,R,$UMCBD/$BASD.CD
$      PRMFL   DE,L,R,$UMCBD/$BASD.DE
$      PRMFL   ED,L,R,$UMCBD/$BASD.ED
$      SYSOUT  EI,ORG
$      IF      20,ERROR
$ Q2UTIL.
$      PROGRAM Q2UTIL
$      LIMITS  ,54K
$      PRMFL   DA,L,R,$UMCBD/$BASD.DA
$      PRMFL   AD,L,R,$UMCBD/$BASD.AD
$      PRMFL   DX,L,R,$UMCBD/$BASD.DX
$      PRMFL   DJ,L,R,$UMCBD/$BASD.DJ
$      PRMFL   DH,L,R,$UMCBD/$BASD.DH
$      DATA    I*
IDS2   INITIAL FC/DA/
IDS2   INITIAL FC/AD/
IDS2   INITIAL FC/DX/
IDS2   INITIAL FC/DJ/
IDS2   INITIAL FC/DH/
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$ END.
$      CONVER
$      DATA    IN
**** INID - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

4.4.11. INITIALIZATION OF GEN.-PRINT REQUEST FILE

11. INITIALIZATION OF GENERATION-PRINT REQUEST FILE

(Refer to Chapter "RESTORATION OF REQUESTS (REAG)").

The Generation-Print request file must be initialized before starting up a TDS or a Workstation.

The command 'AGI' must be entered in the input transaction file of the REAG procedure.

```
$      IDENT   $IDENT,$DEST.REAG
$      NOTE    *****************************************************
$      NOTE    * VisualAge Pacbase                                *
$      NOTE    * ================                                  *
$      NOTE    *                                                   *
$      NOTE    *        INITIALIZATION-RESTORATION OF AG FILE      *
$      NOTE    *                                                   *
$      NOTE    * ENTER USER INPUT IN                              *
$      NOTE    * $UMCU/$MB.REAG                                   *
$      NOTE    *                                                   *
$      NOTE    * INPUT SYNTAX                                     *
$      NOTE    *                                                   *
$      NOTE    * RESTORATION OR INITIALIZATION REQUEST            *
$      NOTE    *                                                   *
$      NOTE    * COL 2-3 - 'AG'                                   *
$      NOTE    * COL 4   - ' ' FOR RESTORATION,                   *
$      NOTE    *           'I' FOR INITIALIZATION.                 *
$      NOTE    *                                                   *
$      NOTE    * DELETION REQUESTS (OPTIONAL LINES)               *
$      NOTE    *                                                   *
$      NOTE    * COL 2-6  - 'ABXXX' DELETION OF XXX LIBRARY'S     *
$      NOTE    *            COMMANDS                               *
$      NOTE    * COL 2-7  - 'ASXXXX' DELETION OF XXXX SESSION'S   *
$      NOTE    *            COMMANDS                               *
$      NOTE    * COL 2-11 - 'AUXXXXXXXX' DELETION OF XXXXXXXX     *
$      NOTE    *            USER'S COMMANDS.                       *
$      NOTE    *                                                   *
$      NOTE    *****************************************************
$      SELECT  $UMCU/$JCL.PG0
$ PTU004.
$      OPTION  CBL74
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PTU004
$      EXECUTE DUMP
$      LIMITS  ,60K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
$      PRMFL   MB,R,S,$UMCU/$MB.REAG
$      FILE    BM,C1S,1R
$      SYSOUT  DD,ORG
$      IF      20,ERROR
$      IF      30,END
$ PTU560.
$      OPTION  CBL74
$      USE     .DIBLD
$      OPTION  LDLIB
$      EQUATE  .DIBLD/.DBPKL/
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PTU560
$      EXECUTE DUMP
$      LIMITS  ,65K
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      PRMFL   AG,L,R,$UMCB/$BASE.AG
$      PRMFL   XG,L,R,$UMCB/$BASE.XG
$      PRMFL   PG,Q,R,&PGI
$      PRMFL   AE,Q,R,$UMCB/$BASE.AE
$      PRMFL   XE,Q,R,$UMCB/$BASE.XE
$      FILE    MB,C1R
$      SYSOUT  DD,ORG
$      SYSOUT  EI,ORG
$      SYSOUT  EE,ORG
$      SYSOUT  EK,ORG
$      DATA    .U
FILE   FC/AG/,LOVI/10/,GOVI/20/
$      IF      20,ERROR
$ END.
$      CONVER
$      DATA    IN
```

```
******** REAG - NORMAL END OF RUN *****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

4.4.12. LINK-EDIT OF GPRT STREAM PROGRAMS

12. LINK-EDIT OF THE GENERATION-PRINT STREAM PROGRAMS

(See the JCL in the next subchapters)

This step is performed by the PACA, PACB, PACC and PACD procedures.

These procedures must be executed at each re-installation of VA Pac, and after each DMCL modification.

```
$      IDENT   $IDENT,$DEST.PACA
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF GENERATION-PRINT PROGRAMS        *
$      NOTE    *                                                    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ DRIVELK.
$      LOWLOAD
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      SELECT  $UMCS/$OBJBT.PTUPIL
$      LINK    .PACABE
$      ENTRY   PACABE
$      SELECT  $UMCS/$OBJBT.PACABE
$      EXECUTE
$      LIMITS  ,30K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACDRV
$ PACBALK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBA
$      LINK    .PACA10
$      ENTRY   PACA10
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACA10
$      LINK    .PACA20,.PACA10
$      ENTRY   PACA20
$      SELECT  $UMCS/$OBJBT.PACA20
$      LINK    .PACR20,.PACA20
$      ENTRY   PACR20
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACR20
$      EXECUTE
$      LIMITS  ,90K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBA
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBBLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBB
$      LINK    .PACB30
$      ENTRY   PACB30
$      SELECT  $UMCS/$OBJBT.PACB30
$      LINK    .PACB40,.PACB30
$      ENTRY   PACB40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACB40
$      LINK    .PACB80,.PACB40
$      ENTRY   PACB80
$      SELECT  $UMCS/$OBJBT.PACB80
$      EXECUTE
$      LIMITS  ,140K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBB
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBELK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBE
$      LINK    .PACE30
$      ENTRY   PACE30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACE30
$      LINK    .PACE40,.PACE30
```

```
$      ENTRY   PACE40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACE40
$      LINK    .PACE80,.PACE40
$      ENTRY   PACE80
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACE80
$      EXECUTE
$      LIMITS  ,210K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBE
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBLLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBL
$      LINK    .PACL30
$      ENTRY   PACL30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACL30
$      LINK    .PACL80,.PACL30
$      ENTRY   PACL80
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACL80
$      LINK    .PACL40,.PACL80
$      ENTRY   PACL40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACL40
$      LINK    .PACL90,.PACL40
$      ENTRY   PACL90
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACL90
$      LINK    .PACLTA,.PACL90
$      ENTRY   PACLTA
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACLTA
$      EXECUTE
$      LIMITS  ,160K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBL
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.PACB
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF GENERATION-PRINT PROGRAMS        *
$      NOTE    *                                                    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ PACBMLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBM
$      LINK    .PACM30
$      ENTRY   PACM30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACM30
$      LINK    .PACM80,.PACM30
$      ENTRY   PACM80
$      SELECT  $UMCS/$OBJBT.PACM80
$      EXECUTE
$      LIMITS  ,130K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBM
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBNLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBN
$      LINK    .PACN30
$      ENTRY   PACN30
$      SELECT  $UMCS/$OBJBT.PACN30
$      LINK    .PACNT3,.PACN30
$      ENTRY   PACNT3
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACNT3
$      LINK    .PACN40,.PACNT3
$      ENTRY   PACN40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACN40
$      LINK    .PACN50,.PACN40
$      ENTRY   PACN50
$      SELECT  $UMCS/$OBJBT.PACN50
$      LINK    .PACN80,.PACN50
$      ENTRY   PACN80
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACN80
$      EXECUTE
$      LIMITS  ,200K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBN
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBDLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBD
$      LINK    .PACD30
$      ENTRY   PACD30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACD30
$      LINK    .PACD40,.PACD30
$      ENTRY   PACD40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACD40
$      LINK    .PACD80,.PACD40
$      ENTRY   PACD80
$      SELECT  $UMCS/$OBJBT.PACD80
```

```
$      EXECUTE
$      LIMITS  ,140K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBD
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBEDLK.
$      LOWLOAD
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBED
$      LINK    .PACD90
$      ENTRY   PACD90
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACD90
$      EXECUTE
$      LIMITS  ,120K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBED
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.PACC
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * ==================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF GENERATION-PRINT PROGRAMS        *
$      NOTE    *                                                    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ PACBGLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBG
$      LINK    .PACG3C
$      ENTRY   PACG3C
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG3C
$      LINK    .PACG4S,.PACG3C
$      ENTRY   PACG4S
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG4S
$      LINK    .PACG8C,.PACG4S
$      ENTRY   PACG8C
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG8C
$      EXECUTE
$      LIMITS  ,180K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBG
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBVLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBV
$      LINK    .PACG3S
$      ENTRY   PACG3S
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG3S
$      LINK    .PACG4S,.PACG3S
$      ENTRY   PACG4S
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG4S
$      LINK    .PACG8S,.PACG4S
$      ENTRY   PACG8S
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACG8S
$      EXECUTE
$      LIMITS  ,220K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBV
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBKLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBK
$      LINK    .PACK30
$      ENTRY   PACK30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACK30
$      LINK    .PACK80,.PACK30
$      ENTRY   PACK80
$      SELECT  $UMCS/$OBJBT.PACK80
$      LINK    .PACK90,.PACK80
$      ENTRY   PACK90
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACK90
$      EXECUTE
```

```
$      LIMITS  ,130K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBK
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.PACD
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF GENERATION-PRINT PROGRAMS        *
$      NOTE    *                                                    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ PACBPLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBP
$      LINK    .PACP30
$      ENTRY   PACP30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACP30
$      LINK    .PACP40,.PACP30
$      ENTRY   PACP40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACP40
$      LINK    .PACP80,.PACP40
$      ENTRY   PACP80
$      SELECT  $UMCS/$OBJBT.PACP80
$      LINK    .PACP92,.PACP80
$      ENTRY   PACP92
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACP92
$      EXECUTE
$      LIMITS  ,140K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBP
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBQLK.
$      LOWLOAD
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBQ
$      LINK    .PACQ30
$      ENTRY   PACQ30
$      SELECT  $UMCS/$OBJBT.PACQ30
$      EXECUTE
$      LIMITS  ,160K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBQ
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$ PACBRLK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACBR
$      LINK    .PACC30
$      ENTRY   PACC30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACC30
$      LINK    .PACC40,.PACC30
$      ENTRY   PACC40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACC40
$      LINK    .PACC80,.PACC40
$      ENTRY   PACC80
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PACC80
$      EXECUTE
$      LIMITS  ,140K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACBR
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      ENDJOB
```

4.4.13. LINK-EDIT OF PACX PROGRAMS

13. LINKING OF PROGRAMS OF THE PACX STREAM
(See JCL in the following sub-chapter.)

This is performed by executing the LKEX procedure.

This procedure should be executed after every VA Pac reinstallation.

```
$      IDENT   $IDENT,$DEST.LKEX
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *             SET-UP OF THE RUN UNITS                *
$      NOTE    *             FOR THE EXTRACTION PROCEDURE           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCS$PWS
 IGNORE ERRS
FC $UMCS/$RUNS.PACX,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$RUNS.SPABPB,WRITE/$UMCU/,
        LLINKS/0300,0500/,MODE/RAND/
FC $UMCS/$RUNS.PACA90,WRITE/$UMCU/,
        LLINKS/0300,0500/,MODE/RAND/
FC $UMCS/$RUNS.PACABE,WRITE/$UMCU/,
        LLINKS/0500,0700/,MODE/RAND/
FC $UMCS/$RUNS.PACCTL,WRITE/$UMCU/,
        LLINKS/0500,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACFGY,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACFMB,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACFTD,WRITE/$UMCU/,
        LLINKS/1200,1500/,MODE/RAND/
FC $UMCS/$RUNS.PACHOI,WRITE/$UMCU/,
        LLINKS/0300,0500/,MODE/RAND/
FC $UMCS/$RUNS.PACSJO,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACSMD,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACSPU,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACSRM,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACS30,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACS40,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACS50,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACS60,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACS75,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
FC $UMCS/$RUNS.PACS80,WRITE/$UMCU/,
        LLINKS/1300,2000/,MODE/RAND/
$ LINK01.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACX
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACX
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACX
$ LINK02.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      SPABPB     -RE
CH     -DATA   0512K      -DESC 1K
V      -E      SPABPB_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.SPABPB
$      PRMFL   A0,R,R,$UMCS/$BOB85.SPABPB
$ LINK03.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
```

```
GRU     -N      PACA90     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACA90_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACA90
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACA90
$ LINK04.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACABE     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACABE_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACABE
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACABE
$ LINK05.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACCTL     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACCTL_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACCTL
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACCTL
$ LINK06.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACFGY     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACFGY_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACFGY
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACFGY
$ LINK07.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACFMB     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACFMB_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACFMB
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACFMB
$ LINK08.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACFTD     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACFTD_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACFTD
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACFTD
$ LINK09.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACHOI     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACHOI_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACHOI
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACHOI
$ LINK10.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACSJO     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACSJO_ENTDEF
```

```
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACSJO
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACSJO
$ LINK11.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACSMD     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACSMD_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACSMD
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACSMD
$ LINK12.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACSPU     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACSPU_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACSPU
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACSPU
$ LINK13.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACSRM     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACSRM_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACSRM
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACSRM
$ LINK14.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACS30     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACS30_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACS30
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACS30
$ LINK15.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACS40     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACS40_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACS40
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACS40
$ LINK16.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACS50     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACS50_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACS50
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACS50
$ LINK17.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACS60     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACS60_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACS60
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACS60
```

```
$ LINK18.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACS75     -RE
CH     -DATA   2048K      -DESC 1K
V      -E      PACS75_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACS75
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACS75
$ LINK19.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACS80     -RE
CH     -DATA   2048K      -DESC 1K
V      -E      PACS80_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACS80
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACS80
```

4.4.14. LINK-EDIT OF PQCA STREAM PROGRAMS

14. LINK-EDIT OF PACBENCH QUALITY CONTROL PROGRAMS

(See the JCL in the next subchapter)

The procedure PACQ executes the link-edit of the PACBENCH Quality Control programs.

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

When the PQC module is used with the personalized dictionary, the UPDT procedure must load the file:

$UMCU/$MB.UPQC.

(See Subchapter 'PQC Module Installation'.)

```
$      IDENT   $IDENT,$DEST.PACQ
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *        LINK OF PACBENCH QUALITY CONTROL PROGRAMS    *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$ PACQLNK.
$      LOWLOAD
$      USE     .DCKPF,DLPUT
$      OPTION  CBL74,NOGO,RELMEM,LDLIB
$      LIBRARY LA,LB
$      SELECT  $UMCS/$OBJBT.PACQ
$      LINK    .PTUQ20
$      ENTRY   PTUQ20
$      SELECT  $UMCS/$OBJBT.PTUQ20
$      LINK    .PTUQ40,.PTUQ20
$      ENTRY   PTUQ40
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PTUQ40
$      LINK    .PTUQ50,.PTUQ40
$      ENTRY   PTUQ50
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PTUQ50
$      LINK    .PTUQ30,.PTUQ50
$      ENTRY   PTUQ30
$      USE     .SMA/1/,.SMB/13000/,.SMC/1/
$      SELECT  $UMCS/$OBJBT.PTUQ30
$      EXECUTE
$      LIMITS  ,180K
$      PRMFL   H*,W,R,$UMCS/$HSTAR.PACQ
$      PRMFL   LB,R/C,S,$UMCS/$SCHEMA.CSTARPB
$      PRMFL   LA,R/C,R,$UMCS/$FILS.OBJLIB
$      ENDJOB
```

4.4.15. LINK-EDIT OF PAC/IMPACT PROGRAMS

15. LINK OF THE PAC/IMPACT FUNCTION PROGRAMS
(See the JCL in the following sub-chapter.)

This is done through execution of the LKEI procedure.

This procedure must be executed after every reinstallation of the VA Pac system.

```
$      IDENT   $IDENT,$DEST.LKEI
$      NOTE    *****************************************************
$      NOTE    * VisualAge Pacbase                                 *
$      NOTE    * ================                                  *
$      NOTE    *                                                   *
$      NOTE    *              SET-UP OF THE RUN UNITS              *
$      NOTE    *              FOR PAC/IMPACT MODULE                *
$      NOTE    *                                                   *
$      NOTE    *****************************************************
$      FILSYS
USERID $UMCS$PWS
 IGNORE ERRS
FC $UMCS/$RUNS.PANFQI,WRITE/$UMCU/,
        LLINKS/1000,1300/,MODE/RAND/
FC $UMCS/$RUNS.PANFQS,WRITE/$UMCU/,
        LLINKS/1000,1300/,MODE/RAND/
FC $UMCS/$RUNS.PAN200,WRITE/$UMCU/,
        LLINKS/0500,1000/,MODE/RAND/
FC $UMCS/$RUNS.PAN205,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN210,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN212,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN215,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN220,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN230,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN240,WRITE/$UMCU/,
        LLINKS/0500,1000/,MODE/RAND/
FC $UMCS/$RUNS.PAN250,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN255,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN260,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN270,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PAN280,WRITE/$UMCU/,
        LLINKS/0500,1000/,MODE/RAND/
$ LINK01.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PANFQI
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PANFQI
$      PRMFL   A0,R,R,$UMCS/$BOB85.PANFQI
$ LINK02.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PANFQS
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PANFQS
$      PRMFL   A0,R,R,$UMCS/$BOB85.PANFQS
$ LINK03.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN200
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN200
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN200
$ LINK04.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
```

```
GRU    -N      PAN205
CH     -DATA   2048K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN205
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN205
$ LINK05.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN210
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN210
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN210
$ LINK06.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN212
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN212
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN212
$ LINK07.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN215
CH     -DATA   2048K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN215
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN215
$ LINK08.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN220
CH     -DATA   2048K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN220
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN220
$ LINK09.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN230
CH     -DATA   2048K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN230
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN230
$ LINK10.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN240
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN240
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN240
$ LINK11.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN250
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PAN250
$      PRMFL   A0,R,R,$UMCS/$BOB85.PAN250
$ LINK12.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PAN255
```

```
    CH      -DATA   0512K      -DESC 1K
    I_O     -FC     A0
    $       PRMFL   V*,W,R,$UMCS/$RUNS.PAN255
    $       PRMFL   A0,R,R,$UMCS/$BOB85.PAN255
    $ LINK13.
    $       LKED    FORM
    R       -N_M    -N_M_L   -N_S_L
    L       -L      CBL85
    GRU     -N      PAN260
    CH      -DATA   2048K      -DESC 1K
    I_O     -FC     A0
    $       PRMFL   V*,W,R,$UMCS/$RUNS.PAN260
    $       PRMFL   A0,R,R,$UMCS/$BOB85.PAN260
    $ LINK14.
    $       LKED    FORM
    R       -N_M    -N_M_L   -N_S_L
    L       -L      CBL85
    GRU     -N      PAN270
    CH      -DATA   2048K      -DESC 1K
    I_O     -FC     A0
    $       PRMFL   V*,W,R,$UMCS/$RUNS.PAN270
    $       PRMFL   A0,R,R,$UMCS/$BOB85.PAN270
    $ LINK15.
    $       LKED    FORM
    R       -N_M    -N_M_L   -N_S_L
    L       -L      CBL85
    GRU     -N      PAN280
    CH      -DATA   0512K      -DESC 1K
    I_O     -FC     A0
    $       PRMFL   V*,W,R,$UMCS/$RUNS.PAN280
    $       PRMFL   A0,R,R,$UMCS/$BOB85.PAN280
```

4.4.16. TP8 ENVIRONMENT GENERATION

16a. VA PAC TP8 ENVIRONMENT GENERATION

(See the JCL in the next subchapters)

Only the installation of an independent VA Pac TP8 compatible with GCOS8 release SR3000 and later is described.

These steps must be executed by the TP8 administrator.

The JCL described below is stored under the catalogue string $UMCU/$JCL.

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 all VA Pac TPRs and load them in a library.

  This step is executed through the SLU1, SLU2, SLU3, SLU4, and SLU5 procedures.

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

  This step is executed through the MFT8 procedure.

- Initialize the VA Pac 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 file $UMCU/$SOURCE/DNODE.

- Define the VA Pac Workstation.

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

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 VA Pac Workstation is defined through the PBN parameter.

. The name of the MAILBOX associated with the VA Pac Workstation is defined through the PBMB 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 VA Pac into a TQ workstation which already exists on-site. The parameters used are:

. The name of the MAILBOX associated with the VA Pac Workstation is defined through the PBMB parameter.

. The name of the VA Pac Workstation is defined through the TQN parameter.

. The name of the VIP or TTY MAILBOXES are defined through the VIPMB and TTYMB parameters.

All VA Pac Workstation parameters must be unique at a site.

- Initialize the TQ Workstation.

To activate the TQ Workstation, and when the TQ Workstation is used to manage VA Pac 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 VA Pac 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.

```
$      IDENT   $IDENT,$DEST.FIT8
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *              CREATION OF TP8 FILES                 *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCT$PWT
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
```

```
$      IDENT   $IDENT,$DEST.ILI8
$      NOTE    ****************************************************
$      NOTE    * VisualAge Pacbase                                *
$      NOTE    * =================                                 *
$      NOTE    *                                                  *
$      NOTE    *            INITIALIZATION OF TPR LIBRARY         *
$      NOTE    *                                                  *
$      NOTE    ****************************************************
$      SELECT  $UMCU/$JCL.LOD$SR
$      PRMFL   OT,W,R,$UMCT/$FIL8.TPRLIB
```

```
$      IDENT   $IDENT,$DEST.CRDY
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *                COMPILE LINK READY TPRS.            *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      OPTION  CBL74,SAVE/ZAQRYE
$      OPTION  NOGO,NOSETU,SYMREF
$      USE     S.SSPE/1/,D.SSPE/1/
$      CBL74   DECK,COPY,XREF,MAP,PMAP
$      SELECT  $UMCS/$SOURCE.ZAQRYE
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPE
$      PRMFL   C*,W,S,$UMCS/$OBJTP.ZAQRYE
$      LIBRARY IT,IA
$      EXECUTE
$      PRMFL   IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$      PRMFL   IT,R,R,&IT008P/EXEC/IT.LIB
$      FILE    H*,H01SS,10R
$      OPTION  CBL74,SAVOLD/ZAQRYG
$      OPTION  NOGO,NOSETU,SYMREF
$      USE     S.SSPG/1/,D.SSPG/1/
$      CBL74   DECK,COPY,XREF,MAP,PMAP
$      SELECT  $UMCS/$SOURCE.ZAQRYG
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPG
$      PRMFL   C*,W,S,$UMCS/$OBJTP.ZAQRYG
$      LIBRARY IT,IA
$      EXECUTE
$      PRMFL   IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$      PRMFL   IT,R,R,&IT008P/EXEC/IT.LIB
$      FILE    H*,H01SS,10R
$      OPTION  CBL74,SAVOLD/ZAQRYT
$      OPTION  NOGO,NOSETU,SYMREF
$      USE     S.SSPT/1/,D.SSPT/1/
$      CBL74   DECK,COPY,XREF,MAP,PMAP
$      SELECT  $UMCS/$SOURCE.ZAQRYT
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPT
$      PRMFL   C*,W,S,$UMCS/$OBJTP.ZAQRYT
$      LIBRARY IT,IA
$      EXECUTE
$      PRMFL   IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$      PRMFL   IT,R,R,&IT008P/EXEC/IT.LIB
$      FILE    H*,H01SS,10R
$      OPTION  CBL74,SAVOLD/ZAQRYM
$      OPTION  NOGO,NOSETU,SYMREF
$      USE     S.SSPM/1/,D.SSPM/1/
$      CBL74   DECK,COPY,XREF,MAP,PMAP
$      SELECT  $UMCS/$SOURCE.ZAQRYM
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPM
$      PRMFL   C*,W,S,$UMCS/$OBJTP.ZAQRYM
$      LIBRARY IT,IA
$      EXECUTE
$      PRMFL   IA,R,R,$ID2E8.EXEC/MODULIB.LIB
$      PRMFL   IT,R,R,&IT008P/EXEC/IT.LIB
$      FILE    H*,H01SS,10R
$      OPTION  CBL74,SAVOLD/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
$      OPTION  CBL74,SAVOLD/ZAQRYA
$      OPTION  NOGO,NOSETU,SYMREF
$      USE     S.SSPA/1/,D.SSPA/1/
$      CBL74   DECK,COPY,XREF,MAP,PMAP
```

```
$      SELECT  $UMCS/$SOURCE.ZAQRYA
$      PRMFL   6*,W,R,$UMCS/$SCHEMA.SSPA
$      PRMFL   C*,W,S,$UMCS/$OBJTP.ZAQRYA
$      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
```

```
$      IDENT   $IDENT,$DEST.SLU1
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF VISUALAGE PACBASE TPRS           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      NOTE    ***   ZAQ000   ***
$      OPTION  CBL74,SAVE/ZAQ000,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ000
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ100   ***
$      OPTION  CBL74,SAVE/ZAQ100,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ100
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ101   ***
$      OPTION  CBL74,SAVE/ZAQ101,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ101
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ102   ***
$      OPTION  CBL74,SAVE/ZAQ102,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ102
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ103   ***
$      OPTION  CBL74,SAVE/ZAQ103,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ103
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ104   ***
$      OPTION  CBL74,SAVE/ZAQ104,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ104
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ200   ***
$      OPTION  CBL74,SAVE/ZAQ200,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ200
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ210   ***
$      OPTION  CBL74,SAVE/ZAQ210,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ210
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ300   ***
$      OPTION  CBL74,SAVE/ZAQ300,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ300
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ400   ***
$      OPTION  CBL74,SAVE/ZAQ400,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ400
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ500   ***
$      OPTION  CBL74,SAVE/ZAQ500,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ500
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ600   ***
$      OPTION  CBL74,SAVE/ZAQ600,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ600
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ700   ***
$      OPTION  CBL74,SAVE/ZAQ700,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ700
```

```
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ800   ***
$      OPTION  CBL74,SAVE/ZAQ800,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ800
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ900   ***
$      OPTION  CBL74,SAVE/ZAQ900,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ900
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQ990   ***
$      OPTION  CBL74,SAVE/ZAQ990,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQ990
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQA00   ***
$      OPTION  CBL74,SAVE/ZAQA00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQA00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQAA0   ***
$      OPTION  CBL74,SAVE/ZAQAA0,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQAA0
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQB00   ***
$      OPTION  CBL74,SAVE/ZAQB00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQB00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQC00   ***
$      OPTION  CBL74,SAVE/ZAQC00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQC00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQC01   ***
$      OPTION  CBL74,SAVE/ZAQC01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQC01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQC50   ***
$      OPTION  CBL74,SAVE/ZAQC50,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQC50
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQCHX   ***
$      OPTION  CBL74,SAVE/ZAQCHX,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQCHX
$      SELECT  $UMCU/$JCL/UPD$SR
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.SLU2
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF VISUALAGE PACBASE TPRS           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      NOTE    ***   ZAQD00   ***
$      OPTION  CBL74,SAVE/ZAQD00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQD00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQE00   ***
$      OPTION  CBL74,SAVE/ZAQE00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQE00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQF00   ***
$      OPTION  CBL74,SAVE/ZAQF00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQF00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQF10   ***
$      OPTION  CBL74,SAVE/ZAQF10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQF10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQG00   ***
$      OPTION  CBL74,SAVE/ZAQG00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQG00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQH00   ***
$      OPTION  CBL74,SAVE/ZAQH00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQH00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQH01   ***
$      OPTION  CBL74,SAVE/ZAQH01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQH01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQH20   ***
$      OPTION  CBL74,SAVE/ZAQH20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQH20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQH30   ***
$      OPTION  CBL74,SAVE/ZAQH30,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQH30
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI00   ***
$      OPTION  CBL74,SAVE/ZAQI00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI01   ***
$      OPTION  CBL74,SAVE/ZAQI01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI02   ***
$      OPTION  CBL74,SAVE/ZAQI02,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI02
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI03   ***
$      OPTION  CBL74,SAVE/ZAQI03,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI03
```

```
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI04   ***
$      OPTION  CBL74,SAVE/ZAQI04,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI04
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI05   ***
$      OPTION  CBL74,SAVE/ZAQI05,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI05
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI20   ***
$      OPTION  CBL74,SAVE/ZAQI20,NOGO
$      USE     S.SSPM/1/,D.SSPM/1/
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI21   ***
$      OPTION  CBL74,SAVE/ZAQI21,NOGO
$      USE     S.SSPM/1/,D.SSPM/1/
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI21
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQI50   ***
$      OPTION  CBL74,SAVE/ZAQI50,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQI50
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQK10   ***
$      OPTION  CBL74,SAVE/ZAQK10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQK10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQK20   ***
$      OPTION  CBL74,SAVE/ZAQK20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQK20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQK30   ***
$      OPTION  CBL74,SAVE/ZAQK30,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQK30
$      SELECT  $UMCU/$JCL/UPD$SR
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.SLU3
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF VISUALAGE PACBASE TPRS           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      NOTE    ***   ZAQL10   ***
$      OPTION  CBL74,SAVE/ZAQL10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL20   ***
$      OPTION  CBL74,SAVE/ZAQL20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL21   ***
$      OPTION  CBL74,SAVE/ZAQL21,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL21
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL30   ***
$      OPTION  CBL74,SAVE/ZAQL30,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL30
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL40   ***
$      OPTION  CBL74,SAVE/ZAQL40,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL40
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL41   ***
$      OPTION  CBL74,SAVE/ZAQL41,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL41
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL45   ***
$      OPTION  CBL74,SAVE/ZAQL45,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL45
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQL46   ***
$      OPTION  CBL74,SAVE/ZAQL46,NOGO
$      USE     S.SSPM/1/,D.SSPM/1/
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQL46
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQM00   ***
$      OPTION  CBL74,SAVE/ZAQM00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQM00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP00   ***
$      OPTION  CBL74,SAVE/ZAQP00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP01   ***
$      OPTION  CBL74,SAVE/ZAQP01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP02   ***
$      OPTION  CBL74,SAVE/ZAQP02,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP02
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP03   ***
$      OPTION  CBL74,SAVE/ZAQP03,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
```

```
$      SELECT  $UMCS/$OBJTP.ZAQP03
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP04   ***
$      OPTION  CBL74,SAVE/ZAQP04,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP04
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP05   ***
$      OPTION  CBL74,SAVE/ZAQP05,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP05
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP06   ***
$      OPTION  CBL74,SAVE/ZAQP06,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP06
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP07   ***
$      OPTION  CBL74,SAVE/ZAQP07,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP07
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP08   ***
$      OPTION  CBL74,SAVE/ZAQP08,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP08
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQP50   ***
$      OPTION  CBL74,SAVE/ZAQP50,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQP50
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQR00   ***
$      OPTION  CBL74,SAVE/ZAQR00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQR00
$      SELECT  $UMCU/$JCL/UPD$SR
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.SLU4
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF VISUALAGE PACBASE TPRS           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      NOTE    ***   ZAQS02   ***
$      OPTION  CBL74,SAVE/ZAQS02,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS02
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQS03   ***
$      OPTION  CBL74,SAVE/ZAQS03,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS03
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQS04   ***
$      OPTION  CBL74,SAVE/ZAQS04,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS04
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQS05   ***
$      OPTION  CBL74,SAVE/ZAQS05,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS05
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQS06   ***
$      OPTION  CBL74,SAVE/ZAQS06,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS06
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQS08   ***
$      OPTION  CBL74,SAVE/ZAQS08,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQS08
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQT00   ***
$      OPTION  CBL74,SAVE/ZAQT00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQT00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQT10   ***
$      OPTION  CBL74,SAVE/ZAQT10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQT10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQT20   ***
$      OPTION  CBL74,SAVE/ZAQT20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQT20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQT50   ***
$      OPTION  CBL74,SAVE/ZAQT50,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQT50
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQU00   ***
$      OPTION  CBL74,SAVE/ZAQU00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQU00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQU01   ***
$      OPTION  CBL74,SAVE/ZAQU01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQU01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQU10   ***
$      OPTION  CBL74,SAVE/ZAQU10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQU10
```

```
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQU20   ***
$      OPTION  CBL74,SAVE/ZAQU20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQU20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQV10   ***
$      OPTION  CBL74,SAVE/ZAQV10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQV10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQV20   ***
$      OPTION  CBL74,SAVE/ZAQV20,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQV20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQV30   ***
$      OPTION  CBL74,SAVE/ZAQV30,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQV30
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQX00   ***
$      OPTION  CBL74,SAVE/ZAQX00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQX00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQX01   ***
$      OPTION  CBL74,SAVE/ZAQX01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQX01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY01   ***
$      OPTION  CBL74,SAVE/ZAQY01,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY02   ***
$      OPTION  CBL74,SAVE/ZAQY02,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY02
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY03   ***
$      OPTION  CBL74,SAVE/ZAQY03,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY03
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY04   ***
$      OPTION  CBL74,SAVE/ZAQY04,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY04
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY05   ***
$      OPTION  CBL74,SAVE/ZAQY05,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY05
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY10   ***
$      OPTION  CBL74,SAVE/ZAQY10,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY11   ***
$      OPTION  CBL74,SAVE/ZAQY11,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY11
$      SELECT  $UMCU/$JCL/UPD$SR
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.SLU5
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *           LINK OF VISUALAGE PACBASE TPRS           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      NOTE    ***   ZAQY20   ***
$      OPTION  CBL74,SAVE/ZAQY20,NOGO
$      USE     S.SSPG/1/,D.SSPG/1/
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY20
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQY30   ***
$      OPTION  CBL74,SAVE/ZAQY30,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQY30
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAQZ00   ***
$      OPTION  CBL74,SAVE/ZAQZ00,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAQZ00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAR500   ***
$      OPTION  CBL74,SAVE/ZAR500,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAR500
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAR600   ***
$      OPTION  CBL74,SAVE/ZAR600,NOGO
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAR600
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA00   ***
$      OPTION  CBL74,SAVE/ZAPA00,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA00
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA01   ***
$      OPTION  CBL74,SAVE/ZAPA01,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA01
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA10   ***
$      OPTION  CBL74,SAVE/ZAPA10,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA10
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA11   ***
$      OPTION  CBL74,SAVE/ZAPA11,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA11
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA12   ***
$      OPTION  CBL74,SAVE/ZAPA12,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA12
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA13   ***
$      OPTION  CBL74,SAVE/ZAPA13,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA13
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA14   ***
$      OPTION  CBL74,SAVE/ZAPA14,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA14
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA15   ***
$      OPTION  CBL74,SAVE/ZAPA15,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
```

```
$      SELECT  $UMCS/$OBJTP.ZAPA15
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA16   ***
$      OPTION  CBL74,SAVE/ZAPA16,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA16
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA17   ***
$      OPTION  CBL74,SAVE/ZAPA17,NOGO
$      USE     S.SSPA/1/,D.SSPA/1/
$      USE     S.SSPE/1/,D.SSPE/1/
$      USE     S.SSPG/1/,D.SSPG/1/
$      USE     S.SSPM/1/,D.SSPM/1/
$      USE     S.SSPT/1/,D.SSPT/1/
$      SELECT  $UMCS/$OBJTP.ZAPA17
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA18   ***
$      OPTION  CBL74,SAVE/ZAPA18,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA18
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA19   ***
$      OPTION  CBL74,SAVE/ZAPA19,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA19
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA21   ***
$      OPTION  CBL74,SAVE/ZAPA21,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA21
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA22   ***
$      OPTION  CBL74,SAVE/ZAPA22,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA22
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA30   ***
$      OPTION  CBL74,SAVE/ZAPA30,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA30
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA31   ***
$      OPTION  CBL74,SAVE/ZAPA31,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA31
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA32   ***
$      OPTION  CBL74,SAVE/ZAPA32,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA32
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA33   ***
$      OPTION  CBL74,SAVE/ZAPA33,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA33
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA34   ***
$      OPTION  CBL74,SAVE/ZAPA34,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA34
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPA35   ***
$      OPTION  CBL74,SAVE/ZAPA35,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPA35
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPAA0   ***
$      OPTION  CBL74,SAVE/ZAPAA0,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPAA0
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPBND   ***
$      OPTION  CBL74,SAVE/ZAPBND,NOGO
```

```
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPBND
$      SELECT  $UMCU/$JCL/UPD$SR
$      NOTE    ***   ZAPHLP   ***
$      OPTION  CBL74,SAVE/ZAPHLP,NOGO
$      USE     S.SSPE/1/,D.SSPE/1/
$      SELECT  $UMCS/$OBJTP.ZAPHLP
$      SELECT  $UMCU/$JCL/UPD$SR
$      ENDJOB
```

```
    $      LIBRARY L2,L1,IA
    $      EXECUTE
    $      LIMITS  ,85K
    $      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  20,80K
    TABLE
    $      FILE    H*,X1R
    $      PRMFL   OT,W,R,$UMCT/$FIL8.TPRLIB
```

```
$      LIBRARY L2,L1,IA
$      EXECUTE
$      LIMITS  ,90K
$      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  20,80K
$      DATA    CZ
LODL UPDATE=FC*OT INCLUDE=FC*IN +VERBOSE
$      FILE    IN,X1R
$      PRMFL   OT,W,R,$UMCT/$FIL8.TPRLIB
```

```
$      IDENT   $IDENT,$DEST.MFT8
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *            ADAPTATION OF THE DATABASE FILES        *
$      NOTE    *                       FOR TP8                      *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCB$PWB
MF $UMCB/$BASE.AR,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.BR,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AN,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.BN,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AE,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.XE,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AG,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.XG,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AJ,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AB,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.XB,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AC,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.XC,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AP,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.XP,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCB/$BASE.AT,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DA,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.AD,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DC,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.CD,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DX,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DJ,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DE,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.ED,ACCESS/MONITOR/,PAGESIZE/1024/
MF $UMCBD/$BASD.DH,ACCESS/MONITOR/,PAGESIZE/1024/
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.INWD
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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
```

```
$      IDENT   $IDENT,$DEST.DFWD
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *        DEFINITION OF THE VA PAC 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
```

```
$      IDENT   $IDENT,$DEST.DFTQ
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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
```

```
$      IDENT   $IDENT,$DEST.INTQ
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *            INITIALIZATION OF 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
```

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

```
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *              WORKSTATION SPAWN PROCESS JCL         *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $SYSTEM.PROFILE.PROD/TP8
$      SELECT  &IT008P/JCL/TP8.RUN
$      WORKST  $PBN,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
```

```
$      IDENT   $IDENT,$DEST.MFT4
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *            ADAPTATION OF THE DATABASE FILES        *
$      NOTE    *                       FOR DMIV-TP                  *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCB$PWB
MF $UMCB/$BASE.AR,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.BR,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AN,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.BN,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AE,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.XE,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AG,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.XG,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AJ,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AB,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.XB,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AC,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.XC,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AP,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.XP,ACCESS/RWW/,ABORT/NONE/
MF $UMCB/$BASE.AT,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DA,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.AD,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DC,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.CD,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DX,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DJ,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DE,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.ED,ACCESS/RWW/,ABORT/NONE/
MF $UMCBD/$BASD.DH,ACCESS/RWW/,ABORT/NONE/
$      ENDJOB
```

4.4.17. DMIV-TP ENVIRONNEMENT GENERATION

16b. VA PAC DMIV-TP ENVIRONMENT GENERATION

(See the JCL in the next subchapters)

The only generation described here is the generation of an independent DMIV-TP environment compatible with release 8TA4.1.

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

1. Create the system files. This step is executed through the FIT4 procedure.
2. Initialize the TPRs library. This step is executed through the ILI4 procedure.
3. Link-edit and load all VA Pac TPRs in a library. This step is executed through the LNK1, LNK2, LNK3, LNK4, LNK5 procedures.
4. Adapt the SYSGEN source. This is based upon the number of users, the available memory, etc.
5. Compile the SYSGEN source.
6. Run the DMIV-TP system with the PTDS procedure.

```
$      IDENT   $IDENT,$DEST.FIT4
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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.LOADMAP,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,WRITE/$UMCU/,
       LLINKS/18000,23000/,ACCESS/RWW/,MODE/RAND/
$      ENDJOB
```

```
$      IDENT   $IDENT,$DEST.ILI4
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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
```

```
$       IDENT   $IDENT,$DEST.LNK1
$       NOTE    ******************************************************
$       NOTE    * VisualAge Pacbase                                  *
$       NOTE    * =================                                  *
$       NOTE    *                                                    *
$       NOTE    *           LINKING OF VISUALAGE PACBASE TPRS        *
$       NOTE    *                                                    *
$       NOTE    ******************************************************
$       OPTION  NOGO,CBL74,SAVE/ZAQ000
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ000
$       SELECT  $UMCS/$OBJTP.ZAQ000
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ000.
$       OPTION  NOGO,CBL74,SAVE/ZAQ100
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ100
$       SELECT  $UMCS/$OBJTP.ZAQ100
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ100.
$       OPTION  NOGO,CBL74,SAVE/ZAQ101
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ101
$       SELECT  $UMCS/$OBJTP.ZAQ101
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ101.
$       OPTION  NOGO,CBL74,SAVE/ZAQ102
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ102
$       SELECT  $UMCS/$OBJTP.ZAQ102
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ102.
$       OPTION  NOGO,CBL74,SAVE/ZAQ103
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ103
$       SELECT  $UMCS/$OBJTP.ZAQ103
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ103.
$       OPTION  NOGO,CBL74,SAVE/ZAQ104
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ104
$       SELECT  $UMCS/$OBJTP.ZAQ104
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ104.
$       OPTION  NOGO,CBL74,SAVE/ZAQ200
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ200
$       SELECT  $UMCS/$OBJTP.ZAQ200
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ200.
$       OPTION  NOGO,CBL74,SAVE/ZAQ210
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ210
$       SELECT  $UMCS/$OBJTP.ZAQ210
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ210.
$       OPTION  NOGO,CBL74,SAVE/ZAQ300
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ300
$       SELECT  $UMCS/$OBJTP.ZAQ300
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ300.
$       OPTION  NOGO,CBL74,SAVE/ZAQ400
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ400
$       SELECT  $UMCS/$OBJTP.ZAQ400
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ400.
$       OPTION  NOGO,CBL74,SAVE/ZAQ500
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ500
$       SELECT  $UMCS/$OBJTP.ZAQ500
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ500.
$       OPTION  NOGO,CBL74,SAVE/ZAQ600
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ600
$       SELECT  $UMCS/$OBJTP.ZAQ600
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ600.
$       OPTION  NOGO,CBL74,SAVE/ZAQ700
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ700
$       SELECT  $UMCS/$OBJTP.ZAQ700
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ700.
```

```
$       OPTION  NOGO,CBL74,SAVE/ZAQ800
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ800
$       SELECT  $UMCS/$OBJTP.ZAQ800
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ800.
$       OPTION  NOGO,CBL74,SAVE/ZAQ900
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ900
$       SELECT  $UMCS/$OBJTP.ZAQ900
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ900.
$       OPTION  NOGO,CBL74,SAVE/ZAQ990
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQ990
$       SELECT  $UMCS/$OBJTP.ZAQ990
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQ990.
$       OPTION  NOGO,CBL74,SAVE/ZAQA00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQA00
$       SELECT  $UMCS/$OBJTP.ZAQA00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQA00.
$       OPTION  NOGO,CBL74,SAVE/ZAQAA0
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQAA0
$       SELECT  $UMCS/$OBJTP.ZAQAA0
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQAA0.
$       OPTION  NOGO,CBL74,SAVE/ZAQB00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQB00
$       SELECT  $UMCS/$OBJTP.ZAQB00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQB00.
$       OPTION  NOGO,CBL74,SAVE/ZAQC00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQC00
$       SELECT  $UMCS/$OBJTP.ZAQC00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQC00.
$       OPTION  NOGO,CBL74,SAVE/ZAQC01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQC01
$       SELECT  $UMCS/$OBJTP.ZAQC01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQC01.
$       OPTION  NOGO,CBL74,SAVE/ZAQC50
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQC50
$       SELECT  $UMCS/$OBJTP.ZAQC50
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQC50.
$       OPTION  NOGO,CBL74,SAVE/ZAQCHX
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQCHX
$       SELECT  $UMCS/$OBJTP.ZAQCHX
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQCHX.
$       ENDJOB
```

```
$       IDENT   $IDENT,$DEST.LNK2
$       NOTE    ******************************************************
$       NOTE    * VisualAge Pacbase                                  *
$       NOTE    * =================                                  *
$       NOTE    *                                                    *
$       NOTE    *           LINKING OF VISUALAGE PACBASE TPRS        *
$       NOTE    *                                                    *
$       NOTE    ******************************************************
$       OPTION  NOGO,CBL74,SAVE/ZAQD00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQD00
$       SELECT  $UMCS/$OBJTP.ZAQD00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQD00.
$       OPTION  NOGO,CBL74,SAVE/ZAQE00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQE00
$       SELECT  $UMCS/$OBJTP.ZAQE00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQE00.
$       OPTION  NOGO,CBL74,SAVE/ZAQF00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQF00
$       SELECT  $UMCS/$OBJTP.ZAQF00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQF00.
$       OPTION  NOGO,CBL74,SAVE/ZAQF10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQF10
$       SELECT  $UMCS/$OBJTP.ZAQF10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQF10.
$       OPTION  NOGO,CBL74,SAVE/ZAQG00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQG00
$       SELECT  $UMCS/$OBJTP.ZAQG00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQG00.
$       OPTION  NOGO,CBL74,SAVE/ZAQH00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQH00
$       SELECT  $UMCS/$OBJTP.ZAQH00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQH00.
$       OPTION  NOGO,CBL74,SAVE/ZAQH01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQH01
$       SELECT  $UMCS/$OBJTP.ZAQH01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQH01.
$       OPTION  NOGO,CBL74,SAVE/ZAQH20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQH20
$       SELECT  $UMCS/$OBJTP.ZAQH20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQH20.
$       OPTION  NOGO,CBL74,SAVE/ZAQH30
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQH30
$       SELECT  $UMCS/$OBJTP.ZAQH30
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQH30.
$       OPTION  NOGO,CBL74,SAVE/ZAQI00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQI00
$       SELECT  $UMCS/$OBJTP.ZAQI00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQI00.
$       OPTION  NOGO,CBL74,SAVE/ZAQI01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQI01
$       SELECT  $UMCS/$OBJTP.ZAQI01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQI01.
$       OPTION  NOGO,CBL74,SAVE/ZAQI02
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQI02
$       SELECT  $UMCS/$OBJTP.ZAQI02
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQI02.
$       OPTION  NOGO,CBL74,SAVE/ZAQI03
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQI03
$       SELECT  $UMCS/$OBJTP.ZAQI03
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQI03.
```

```
$      OPTION  NOGO,CBL74,SAVE/ZAQI04
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQI04
$      SELECT  $UMCS/$OBJTP.ZAQI04
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQI04.
$      OPTION  NOGO,CBL74,SAVE/ZAQI05
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQI05
$      SELECT  $UMCS/$OBJTP.ZAQI05
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQI05.
$      OPTION  NOGO,CBL74,SAVE/ZAQI20
$      USE     S.SSPM/1/,D.SSPM/1/,ZAQI20
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQI20
$      SELECT  $UMCS/$OBJTP.ZAQI20
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQI20.
$      OPTION  NOGO,CBL74,SAVE/ZAQI21
$      USE     S.SSPM/1/,D.SSPM/1/,ZAQI21
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQI21
$      SELECT  $UMCS/$OBJTP.ZAQI21
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQI21.
$      OPTION  NOGO,CBL74,SAVE/ZAQI50
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQI50
$      SELECT  $UMCS/$OBJTP.ZAQI50
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQI50.
$      OPTION  NOGO,CBL74,SAVE/ZAQK10
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQK10
$      SELECT  $UMCS/$OBJTP.ZAQK10
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQK10.
$      OPTION  NOGO,CBL74,SAVE/ZAQK20
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQK20
$      SELECT  $UMCS/$OBJTP.ZAQK20
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQK20.
$      OPTION  NOGO,CBL74,SAVE/ZAQK30
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQK30
$      SELECT  $UMCS/$OBJTP.ZAQK30
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQK30.
$      ENDJOB
```

```
$       IDENT   $IDENT,$DEST.LNK3
$       NOTE    ******************************************************
$       NOTE    * VisualAge Pacbase                                  *
$       NOTE    * =================                                  *
$       NOTE    *                                                    *
$       NOTE    *           LINKING OF VISUALAGE PACBASE TPRS        *
$       NOTE    *                                                    *
$       NOTE    ******************************************************
$       OPTION  NOGO,CBL74,SAVE/ZAQL10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL10
$       SELECT  $UMCS/$OBJTP.ZAQL10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL10.
$       OPTION  NOGO,CBL74,SAVE/ZAQL20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL20
$       SELECT  $UMCS/$OBJTP.ZAQL20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL20.
$       OPTION  NOGO,CBL74,SAVE/ZAQL21
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL21
$       SELECT  $UMCS/$OBJTP.ZAQL21
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL21.
$       OPTION  NOGO,CBL74,SAVE/ZAQL30
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL30
$       SELECT  $UMCS/$OBJTP.ZAQL30
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL30.
$       OPTION  NOGO,CBL74,SAVE/ZAQL40
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL40
$       SELECT  $UMCS/$OBJTP.ZAQL40
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL40.
$       OPTION  NOGO,CBL74,SAVE/ZAQL41
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL41
$       SELECT  $UMCS/$OBJTP.ZAQL41
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL41.
$       OPTION  NOGO,CBL74,SAVE/ZAQL45
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQL45
$       SELECT  $UMCS/$OBJTP.ZAQL45
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQL45.
$       OPTION  NOGO,CBL74,SAVE/ZAQM00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQM00
$       SELECT  $UMCS/$OBJTP.ZAQM00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQM00.
$       OPTION  NOGO,CBL74,SAVE/ZAQP00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQP00
$       SELECT  $UMCS/$OBJTP.ZAQP00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQP00.
$       OPTION  NOGO,CBL74,SAVE/ZAQP01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQP01
$       SELECT  $UMCS/$OBJTP.ZAQP01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQP01.
$       OPTION  NOGO,CBL74,SAVE/ZAQP02
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQP02
$       SELECT  $UMCS/$OBJTP.ZAQP02
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQP02.
$       OPTION  NOGO,CBL74,SAVE/ZAQP03
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQP03
$       SELECT  $UMCS/$OBJTP.ZAQP03
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQP03.
$       OPTION  NOGO,CBL74,SAVE/ZAQP04
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQP04
$       SELECT  $UMCS/$OBJTP.ZAQP04
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQP04.
```

```
$      OPTION  NOGO,CBL74,SAVE/ZAQP05
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQP05
$      SELECT  $UMCS/$OBJTP.ZAQP05
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQP05.
$      OPTION  NOGO,CBL74,SAVE/ZAQP06
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQP06
$      SELECT  $UMCS/$OBJTP.ZAQP06
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQP06.
$      OPTION  NOGO,CBL74,SAVE/ZAQP07
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQP07
$      SELECT  $UMCS/$OBJTP.ZAQP07
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQP07.
$      OPTION  NOGO,CBL74,SAVE/ZAQP08
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQP08
$      SELECT  $UMCS/$OBJTP.ZAQP08
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQP08.
$      OPTION  NOGO,CBL74,SAVE/ZAQP50
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQP50
$      SELECT  $UMCS/$OBJTP.ZAQP50
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQP50.
$      OPTION  NOGO,CBL74,SAVE/ZAQR00
$      USE     S.SSPT/1/,D.SSPT/1/,ZAQR00
$      SELECT  $UMCS/$OBJTP.ZAQR00
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAQR00.
$      ENDJOB
```

```
$       IDENT   $IDENT,$DEST.LNK4
$       NOTE    ******************************************************
$       NOTE    * VisualAge Pacbase                                  *
$       NOTE    * =================                                  *
$       NOTE    *                                                    *
$       NOTE    *           LINKING OF VISUALAGE PACBASE TPRS        *
$       NOTE    *                                                    *
$       NOTE    ******************************************************
$       OPTION  NOGO,CBL74,SAVE/ZAQS02
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS02
$       SELECT  $UMCS/$OBJTP.ZAQS02
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS02.
$       OPTION  NOGO,CBL74,SAVE/ZAQS03
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS03
$       SELECT  $UMCS/$OBJTP.ZAQS03
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS03.
$       OPTION  NOGO,CBL74,SAVE/ZAQS04
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS04
$       SELECT  $UMCS/$OBJTP.ZAQS04
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS04.
$       OPTION  NOGO,CBL74,SAVE/ZAQS05
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS05
$       SELECT  $UMCS/$OBJTP.ZAQS05
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS05.
$       OPTION  NOGO,CBL74,SAVE/ZAQS06
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS06
$       SELECT  $UMCS/$OBJTP.ZAQS06
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS06.
$       OPTION  NOGO,CBL74,SAVE/ZAQS08
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQS08
$       SELECT  $UMCS/$OBJTP.ZAQS08
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQS08.
$       OPTION  NOGO,CBL74,SAVE/ZAQT00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQT00
$       SELECT  $UMCS/$OBJTP.ZAQT00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQT00.
$       OPTION  NOGO,CBL74,SAVE/ZAQT10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQT10
$       SELECT  $UMCS/$OBJTP.ZAQT10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQT10.
$       OPTION  NOGO,CBL74,SAVE/ZAQT20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQT20
$       SELECT  $UMCS/$OBJTP.ZAQT20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQT20.
$       OPTION  NOGO,CBL74,SAVE/ZAQT50
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQT50
$       SELECT  $UMCS/$OBJTP.ZAQT50
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQT50.
$       OPTION  NOGO,CBL74,SAVE/ZAQU00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQU00
$       SELECT  $UMCS/$OBJTP.ZAQU00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQU00.
$       OPTION  NOGO,CBL74,SAVE/ZAQU01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQU01
$       SELECT  $UMCS/$OBJTP.ZAQU01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQU01.
$       OPTION  NOGO,CBL74,SAVE/ZAQU10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQU10
$       SELECT  $UMCS/$OBJTP.ZAQU10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQU10.
```

```
$       OPTION  NOGO,CBL74,SAVE/ZAQU20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQU20
$       SELECT  $UMCS/$OBJTP.ZAQU20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQU20.
$       OPTION  NOGO,CBL74,SAVE/ZAQV10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQV10
$       SELECT  $UMCS/$OBJTP.ZAQV10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQV10.
$       OPTION  NOGO,CBL74,SAVE/ZAQV20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQV20
$       SELECT  $UMCS/$OBJTP.ZAQV20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQV20.
$       OPTION  NOGO,CBL74,SAVE/ZAQV30
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQV30
$       SELECT  $UMCS/$OBJTP.ZAQV30
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQV30.
$       OPTION  NOGO,CBL74,SAVE/ZAQX00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQX00
$       SELECT  $UMCS/$OBJTP.ZAQX00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQX00.
$       OPTION  NOGO,CBL74,SAVE/ZAQX01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQX01
$       SELECT  $UMCS/$OBJTP.ZAQX01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQX01.
$       OPTION  NOGO,CBL74,SAVE/ZAQY01
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY01
$       SELECT  $UMCS/$OBJTP.ZAQY01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY01.
$       OPTION  NOGO,CBL74,SAVE/ZAQY02
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY02
$       SELECT  $UMCS/$OBJTP.ZAQY02
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY02.
$       OPTION  NOGO,CBL74,SAVE/ZAQY03
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY03
$       SELECT  $UMCS/$OBJTP.ZAQY03
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY03.
$       OPTION  NOGO,CBL74,SAVE/ZAQY04
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY04
$       SELECT  $UMCS/$OBJTP.ZAQY04
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY04.
$       OPTION  NOGO,CBL74,SAVE/ZAQY05
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY05
$       SELECT  $UMCS/$OBJTP.ZAQY05
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY05.
$       OPTION  NOGO,CBL74,SAVE/ZAQY10
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY10
$       SELECT  $UMCS/$OBJTP.ZAQY10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY10.
$       OPTION  NOGO,CBL74,SAVE/ZAQY11
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY11
$       SELECT  $UMCS/$OBJTP.ZAQY11
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY11.
$       ENDJOB
```

```
$       IDENT   $IDENT,$DEST.LNK5
$       NOTE    ******************************************************
$       NOTE    * VisualAge Pacbase                                  *
$       NOTE    * =================                                  *
$       NOTE    *                                                    *
$       NOTE    *           LINKING OF VISUALAGE PACBASE TPRS        *
$       NOTE    *                                                    *
$       NOTE    ******************************************************
$       OPTION  NOGO,CBL74,SAVE/ZAQY20
$       USE     S.SSPG/1/,D.SSPG/1/,ZAQY20
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY20
$       SELECT  $UMCS/$OBJTP.ZAQY20
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY20.
$       OPTION  NOGO,CBL74,SAVE/ZAQY30
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQY30
$       SELECT  $UMCS/$OBJTP.ZAQY30
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQY30.
$       OPTION  NOGO,CBL74,SAVE/ZAQZ00
$       USE     S.SSPT/1/,D.SSPT/1/,ZAQZ00
$       SELECT  $UMCS/$OBJTP.ZAQZ00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAQZ00.
$       OPTION  NOGO,CBL74,SAVE/ZAR500
$       USE     S.SSPT/1/,D.SSPT/1/,ZAR500
$       SELECT  $UMCS/$OBJTP.ZAR500
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAR500.
$       OPTION  NOGO,CBL74,SAVE/ZAR600
$       USE     S.SSPT/1/,D.SSPT/1/,ZAR600
$       SELECT  $UMCS/$OBJTP.ZAR600
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAR600.
$       OPTION  NOGO,CBL74,SAVE/ZAPA00
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA00
$       SELECT  $UMCS/$OBJTP.ZAPA00
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA00.
$       OPTION  NOGO,CBL74,SAVE/ZAPA01
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA01
$       SELECT  $UMCS/$OBJTP.ZAPA01
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA01.
$       OPTION  NOGO,CBL74,SAVE/ZAPA10
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA10
$       SELECT  $UMCS/$OBJTP.ZAPA10
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA10.
$       OPTION  NOGO,CBL74,SAVE/ZAPA11
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA11
$       SELECT  $UMCS/$OBJTP.ZAPA11
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA11.
$       OPTION  NOGO,CBL74,SAVE/ZAPA12
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA12
$       SELECT  $UMCS/$OBJTP.ZAPA12
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA12.
$       OPTION  NOGO,CBL74,SAVE/ZAPA13
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA13
$       SELECT  $UMCS/$OBJTP.ZAPA13
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA13.
$       OPTION  NOGO,CBL74,SAVE/ZAPA14
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA14
$       SELECT  $UMCS/$OBJTP.ZAPA14
$       SELECT  $UMCU/$JCL.LNP4
        UPDATE  ZAPA14.
$       OPTION  NOGO,CBL74,SAVE/ZAPA15
$       USE     S.SSPE/1/,D.SSPE/1/,ZAPA15
$       SELECT  $UMCS/$OBJTP.ZAPA15
$       SELECT  $UMCU/$JCL.LNP4
```

```
          UPDATE  ZAPA15.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA16
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA16
    $     SELECT  $UMCS/$OBJTP.ZAPA16
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA16.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA17
    $     USE     S.SSPA/1/,D.SSPA/1/,ZAPA17
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA17
    $     USE     S.SSPG/1/,D.SSPG/1/,ZAPA17
    $     USE     S.SSPM/1/,D.SSPM/1/,ZAPA17
    $     USE     S.SSPT/1/,D.SSPT/1/,ZAPA17
    $     SELECT  $UMCS/$OBJTP.ZAPA17
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA17.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA18
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA18
    $     SELECT  $UMCS/$OBJTP.ZAPA18
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA18.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA19
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA19
    $     SELECT  $UMCS/$OBJTP.ZAPA19
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA19.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA21
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA21
    $     SELECT  $UMCS/$OBJTP.ZAPA21
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA21.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA22
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA22
    $     SELECT  $UMCS/$OBJTP.ZAPA22
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA22.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA30
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA30
    $     SELECT  $UMCS/$OBJTP.ZAPA30
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA30.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA31
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA31
    $     SELECT  $UMCS/$OBJTP.ZAPA31
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA31.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA32
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA32
    $     SELECT  $UMCS/$OBJTP.ZAPA32
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA32.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA33
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA33
    $     SELECT  $UMCS/$OBJTP.ZAPA33
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA33.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA34
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA34
    $     SELECT  $UMCS/$OBJTP.ZAPA34
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA34.
    $     OPTION  NOGO,CBL74,SAVE/ZAPA35
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPA35
    $     SELECT  $UMCS/$OBJTP.ZAPA35
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPA35.
    $     OPTION  NOGO,CBL74,SAVE/ZAPAA0
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPAA0
    $     SELECT  $UMCS/$OBJTP.ZAPAA0
    $     SELECT  $UMCU/$JCL.LNP4
          UPDATE  ZAPAA0.
    $     OPTION  NOGO,CBL74,SAVE/ZAPBND
    $     USE     S.SSPE/1/,D.SSPE/1/,ZAPBND
    $     SELECT  $UMCS/$OBJTP.ZAPBND
```

```
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAPBND.
$      OPTION  NOGO,CBL74,SAVE/ZAPHLP
$      USE     S.SSPE/1/,D.SSPE/1/,ZAPHLP
$      SELECT  $UMCS/$OBJTP.ZAPHLP
$      SELECT  $UMCU/$JCL.LNP4
       UPDATE  ZAPHLP.
$      ENDJOB
```

```
$      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
```

```
$      IDENT   $IDENT,$DEST.SYSG
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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.CSTARPA
$      SELECTD $UMCS/$SCHEMA.CSTARPT
$      SELECTD $UMCS/$SCHEMA.CSTARPE
$      SELECTD $UMCS/$SCHEMA.CSTARPG
$      SELECTD $UMCS/$SCHEMA.CSTARPM
$      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
```

```
$      IDENT   $IDENT,$TDS
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      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   AN,W/C,R,$UMCB/$BASE.AN
$      PRMFL   BN,W/C,R,$UMCB/$BASE.BN
$      PRMFL   AR,W/C,R,$UMCB/$BASE.AR
$      PRMFL   BR,W/C,R,$UMCB/$BASE.BR
$      PRMFL   AG,W/C,R,$UMCB/$BASE.AG
$      PRMFL   XG,W/C,R,$UMCB/$BASE.XG
$      PRMFL   AJ,W/C,R,$UMCB/$BASE.AJ
$      PRMFL   AE,W/C,R,$UMCB/$BASE.AE
$      PRMFL   XE,W/C,R,$UMCB/$BASE.XE
$      PRMFL   AP,W/C,R,$UMCB/$BASE.AP
$      PRMFL   XP,W/C,R,$UMCB/$BASE.XP
$      PRMFL   AB,Q,R,$UMCB/$BASE.AB
$      PRMFL   XB,Q,R,$UMCB/$BASE.XB
$      PRMFL   AC,W/C,R,$UMCB/$BASE.AC
$      PRMFL   XC,W/C,R,$UMCB/$BASE.XC
$      PRMFL   AT,W/C,R,$UMCB/$BASE.AT
$      PRMFL   DC,W/C,R,$UMCBD/$BASD.DC
$      PRMFL   CD,W/C,R,$UMCBD/$BASD.CD
$      PRMFL   DA,W/C,R,$UMCBD/$BASD.DA
$      PRMFL   AD,W/C,R,$UMCBD/$BASD.AD
$      PRMFL   DE,W/C,R,$UMCBD/$BASD.DE
$      PRMFL   ED,W/C,R,$UMCBD/$BASD.ED
$      PRMFL   DX,W/C,R,$UMCBD/$BASD.DX
$      PRMFL   DH,W/C,R,$UMCBD/$BASD.DH
$      PRMFL   DJ,W/C,R,$UMCBD/$BASD.DJ
$      BREAK
$      PROGRAM Q2UTIL
$      LIMITS  ,45K
$      PRMFL   AT,L,R,$UMCB/$BASE.AT
$      PRMFL   DH,L,R,$UMCBD/$BASD.DH
$      DATA    I*
IDS2   INITIAL FC/AT/
IDS2   INITIAL FC/DH/
$      PRMFL   1*,R/C,R,$UMCS/$SCHEMA.1STAR
```

4.4.18. PAF-FUNCTION INSTALLATION

COMPLEMENT: PAF FUNCTION INSTALLATION

The PAF function is made up of the elements listed below.

. Seven programs automatically copied by the standard installation or re-installation procedures:

PAFP10: User program pre-processor

PBTPST: Sub-program managing on-line logical access

PBTPWS: Sub-program managing on-line logical access by keyword

PBBTST: Sub-program managing batch logical access

PBBTWS: Sub-program managing batch logical access by keyword

SPABPA: Sub-program managing on-line physical access

SPAFPA: Sub-program managing batch physical access to work file (PA, YA)

The sub-programs are added to the VA Pac sub-program library during the installation.

. A supplementary sub-schema, code SSPA, used by the sub-program managing on-line physical access. This sub-schema is copied in the VA Pac sub-schema catalog at installation.

. A dictionary of entities accessible to user programs. This dictionary is delivered in the form of batch update transactions found in the file $UMCU/$MB.PAFD. The update of the Specifications Dictionary is made by the UPDT procedure on a separate network to avoid modifying existing entities that may have the same codes as certain PAF entities.

. An on-line and batch example of PAF query procedures. This example is delivered in the form of batch update transactions that are found in the file $UMCU/MB.PAFT. The update of the Specifications Dictionary is made by the UPDT procedure on a network that must be created by the MLIB procedure. The libraries to create are in the file $UMCU/$MB.MLIB. The file $UMCU/$MB.PAFT automatically initializes these libraries.

The definition of procedures to generate can be found in the PACBASE ACCESS FACILITY REFERENCE MANUAL.

The transaction that makes the on-line example work is defined in the VA Pac SYSGEN and WCL.

The programs that submit batch requests to the VA Pac database use the SSPB sub-schema and an indexing file PA,YA.

The use of a preprocessor during or after generation is documented in the Chapter "STANDARD UTILITIES", Subchapter 'PAF Preprocessor of Generated Programs'.

4.4.19. PACDESIGN-FUNCTION INSTALLATION

COMPLEMENT: WORKSTATION INSTALLATION

UPDATE OF PACDESIGN PARAMETERS

The parameters refer to the methodology (or methodologies) in use on the WorkStation.

Their update is performed by the PARM procedure, after setting the MBFILE parameter to the appropriate filename.

Update transactions are copied in catalog $UMCU/$FILU.

The '*'-line must be modified.

```
. MERISE.........................: MBPAMER

. YSM (Yourdon Structured Method)...: MBPAYSM

. SSADM..........................: MBPAADM

. IFW............................: MBPAIFW

. OMT............................: MBPAOMT
```

PACDESIGN TRANSACTION UPDATE

The installation of the WorkStation at the host system level is performed in two steps:

STEP 1: CREATION OF THE WORKSTATION-SPECIFIC DATABASE

Select the library which will contain PACDESIGN transactions.

If necessary, create this library through the MLIB and REST procedures.

STEP 2: CREATION OF PACDESIGN ENTITIES

The PACDESIGN entities are created through the UPDT procedure.

Five update transaction files are supplied:

. $UMCU/$MB.DMER : PACDESIGN MERISE installation

. $UMCU/$MB.DADM : PACDESIGN SSADM installation

. $UMCU/$MB.DYSM : PACDESIGN YSM installation

. $UMCU/$MB.DIFW : PACDESIGN IFW installation

. $UMCU/$MB.DOMT : PACDESIGN OMT installation

Before running the UPDT procedure, check that:

. the library which will contain the transactions has been initialized,

. the '*'-type line at the beginning of the transactions was adapted (User code and password as well as library code),

. in the PTU001 step of the UPDT procedure, the $UMCU/$MB.UPDT file was replaced by the appropriate PACDESIGN transaction file (modification of the MBFILE parameter).

4.4.20. PQC-FUNCTION INSTALLATION

COMPLEMENT: PACBENCH QUALITY CONTROL

The PACBENCH QUALITY CONTROL components for the GCOS8 platform are the following:

Batch procedures:

```
$UMCU/$JCL.PQCA     for Analysis
$UMCU/$JCL.PQCE     for Extraction
```

Standard versions of these batch procedures are installed upon execution of the installation procedure UTI110.

PQC Function specific files:

```
$UMCU/$MB.UPQC      CUSTOMIZATION Dictionary
$UMCU/$MB.PQCE      User input for PQCE
$UMCU/$MB.QCA1      User input for PQCA
$UMCU/$MB.QCA2      User input for PQCA
$UMCU/$MV.PQCE      Standard compiled rules
```

Standard version of these files are installed upon execution of the installation procedure COBA or of the re-installation procedure RCBA.

MODULE CUSTOMIZATION

The Customization Dictionary file takes the form of batch update transactions in the file $UMCU/$MB.UPQC. With this file as input, the UPDT procedure modifies the network accordingly.

4.4.21. PAF-PDM INSTALLATION

COMPLEMENT: PAF-PDM EXTENSION

The components of the PAF-PDM Extension are:

- The .PPTEX user entity
- The QP and SF skeleton files
- The GS user file of Extraction Master Paths (PTEX).

Extraction Master Paths are defined through the creation of an occurrence of the User Entity.

This user entity is supplied as batch transactions in the $UMCU/$MB.PGDP file. The Database is updated by running the UPDT procedure with this file in input, after modifying the '*' type line.

The PAF-PDM skeleton files and the extraction schema file are installed by executing the COBA installation procedure.

- The QP skeleton file is an indexed file

  PRMFL: $UMCS/$FILS.QP
  PRMFL: $UMCS/$FILS.YP

- The SF skeleton file is a sequential file

  PRMFL: $UMCS/$FILS.SF

- The extraction schema file is an indexed file

  PRMFL: $UMCS/$FILU.GS
  PRMFL: $UMCS/$FILU.YS

The QP skeleton file allows for the translation of the User Entity Occurrence as PAF requests.

The SF skeleton allows for the generation of the COBOL program which, once translated by the PAFP10 program, will make up a user extraction program or a macro-command called in a Volume printing.

The GS file contains the user Extraction Master Paths.

The installation of the PAF-PDM function has several impacts on the GPRT chain. The integration of macro-commands or new sub-programs in the printing of personalized documentation means that the monitor which handles this task can only be run in virtual mode. The programs impacted are supplied in object form in COBOL-85 and the LINK procedure must be executed to create the RUN-UNITS.

If macro-commands are not used for personalized documentation, the H* $UMCS/$HSTAR.PACBN is always operational.

The run-unit building procedure for the PAF-PDM Extension is LKEG.

Since some run-units of the PAF-PDM Extension were built via the LKEX procedure, LKEG contains only elements specific to this extension.

The complementary information for the PAF-PDM function is found in the BATCH PROCEDURE MANUAL, in Chapters "GENERATION-PRINT" and "STANDARD UTILITIES" (XPAF, XPDM, PAFX).

```
$      IDENT   $IDENT,$DEST.LKEG
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *              SET-UP OF THE RUN UNITS               *
$      NOTE    *              FOR MANUAL GENERATION                 *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      FILSYS
USERID $UMCS$PWS
 IGNORE ERRS
FC $UMCS/$RUNS.PACBN,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACN25,WRITE/$UMCU/,
        LLINKS/1000,1500/,MODE/RAND/
FC $UMCS/$RUNS.PACN30,WRITE/$UMCU/,
        LLINKS/0700,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACNT3,WRITE/$UMCU/,
        LLINKS/1300,1500/,MODE/RAND/
FC $UMCS/$RUNS.PACN40,WRITE/$UMCU/,
        LLINKS/1300,1500/,MODE/RAND/
FC $UMCS/$RUNS.PACN50,WRITE/$UMCU/,
        LLINKS/0500,1000/,MODE/RAND/
FC $UMCS/$RUNS.PACN80,WRITE/$UMCU/,
        LLINKS/1300,1500/,MODE/RAND/
FC $UMCS/$RUNS.PACN90,WRITE/$UMCU/,
        LLINKS/0300,0500/,MODE/RAND/
FC $UMCS/$RUNS.PBBTST,WRITE/$UMCU/,
        LLINKS/1200,2000/,MODE/RAND/
FC $UMCS/$RUNS.PTUJOB,WRITE/$UMCU/,
        LLINKS/0600,1000/,MODE/RAND/
$ LINK01.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACBN
CH     -DATA   0512K      -DESC 1K
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACBN
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACBN
$ LINK02.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACN25     -RE
CH     -DATA   2048K      -DESC 1K
V      -E      PACN25_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACN25
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACN25
$ LINK03.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACN30     -RE
CH     -DATA   0512K      -DESC 1K
V      -E      PACN30_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACN30
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACN30
$ LINK04.
$      LKED    FORM
R      -N_M    -N_M_L   -N_S_L
L      -L      CBL85
GRU    -N      PACNT3     -RE
CH     -DATA   2048K      -DESC 1K
V      -E      PACNT3_ENTDEF
I_O    -FC     A0
$      PRMFL   V*,W,R,$UMCS/$RUNS.PACNT3
$      PRMFL   A0,R,R,$UMCS/$BOB85.PACNT3
$ LINK05.
$      LKED    FORM
```

```
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACN40     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACN40_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACN40
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACN40
$ LINK06.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACN50     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACN50_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACN50
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACN50
$ LINK07.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACN80     -RE
CH      -DATA   2048K      -DESC 1K
V       -E      PACN80_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACN80
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACN80
$ LINK08.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PACN90     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PACN90_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PACN90
$       PRMFL   A0,R,R,$UMCS/$BOB85.PACN90
$ LINK09.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PBBTST     -RE
CH      -DATA   0512K      -DESC 1K
V       -E      PBBTST_ENTDEF
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PBBTST
$       PRMFL   A0,R,R,$UMCS/$BOB85.PBBTST
$ LINK10.
$       LKED    FORM
R       -N_M    -N_M_L   -N_S_L
L       -L      CBL85
GRU     -N      PTUJOB
CH      -DATA   0010K      -DESC 1K
I_O     -FC     A0
$       PRMFL   V*,W,R,$UMCS/$RUNS.PTUJOB
$       PRMFL   A0,R,R,$UMCS/$BOB85.PTUJOB
```

4.4.22. ADAPTATION OF GENERATED CODE TO COBOL-85

ADAPTATION OF GENERATED CODE TO COBOL-85

Generally, the syntax of COBOL-85 is compatible with that of COBOL-74. However, there are two exceptions which are not handled by the VA Pac generators. These exceptions can be processed through the call of three macro-structures.

These macros are formatted as batch transactions in the catalogued file '$UMCU/$MB.CBL85'. The codes of the macros (AACHKF, AACLFI, AAFIO8) can be modified to avoid overwriting macros already existing in a chosen library. The comments on the Program '-XP' screen detail the use of parameters.

The first incompatibility relates to on-line programs compiled in COBOL-85 which access conventional files under TP8 (TYPE OF COBOL TO GENERATE = 6). COBOL-85 no longer accepts the ".DCKPF" routine; it is replaced by the "CHECKPOINT_FILES" routine in F81FI. The macro AACHKF manages this incompatibility. The AACLFI macro, which completes function F81FI by managing the Close of conventional files, must be called with macro AACHKF (one call per file).

The second incompatibility relates to on-line and batch programs compiled in COBOL-85 which access conventional non-IO8 indexed files. That is, indexed files which have been initialized through a COBOL-74 program. The syntax for the ORGANIZATION parameter in the SELECT clause is: ORGANIZATION IS UFF INDEXED. Macro AAFIO8 manages this incompatibility.

COBOL-85 SUB-PROGRAMS PROVIDED ON THE INSTALLATION TAPE

A COBOL-74 sub-program cannot be assembled with a COBOL-85 program. Applications generated for a COBOL-85 environment use the following sub-programs:

COBOL-85 sub-program	Application
SPABPA	PAF function
SPABPB	"
SPAFPA	"
PBBTST	"
PBBTWS	"
PBTPST	"
PBTPWS	"
ZAR980	Multi-terminal type dialogue

4.4.23. MULTI-TERMINAL TYPE TRANSACTIONS

INSTALLATION OF OLSD MULTI-SCREEN VARIANT

This installation complement is only for use by users of the OLSD multi-screen variant. The source sub-programs for screen message management for all dedicated generators are found in catalog $UMCS/$SOURCE.

Source programs are listed in Chapter "VISUALAGE PACBASE COMPONENTS", Subchapter 'COMPLEMENTARY FILES'.

If you do not need these source programs, you may delete them in $UMCS/$SOURCE.

MULTI-TERMINAL TYPE TRANSACTIONS

(For more details, refer to the ON-LINE SYSTEMS DEVELOPMENT Reference Manual).

The Multi-Terminal type transaction is used to generate on-line programs for VIP7700, VIP7800, QUESTAR and IBM 3270 terminals.

With this option, a logical description of the screen map is generated as a table which is used by the ZAR980 sub-program for the generation of the physical description. The ZAR980 sub-program builds the type of map according to the value given to the type of terminal.

NOTE: Programs generated with this option may not be used together with programs generated with other options.

USE OF THE ZAR980 SUB-PROGRAM

The ZAR980 sub-program is called by each TPR generated with the COBOL clause 'CALL ZAR980 USING ...'.

This sub-program must be stored in a User Library (Random Library) to be linked with the TPR calling it during execution of the LINK-EDIT, and the loading of the RUN UNIT in a TPR Library.

Sub-program library loading

```
$      IDENT   $IDENT,$DEST.EXAMPLE1
$      NOTE    ****************************************
$      NOTE    *   LOAD TPR SUBROUTINE INTO USER LIBRARY  *
$      NOTE    ****************************************
$      PROGRAM RANLIB
$      PRMFL   A4,W,R,$UMCS/$FILS.USER-RANDLIB
$      DATA    R*,COPY
$      SELECTD $UMCS/$OBJTP.ZAR980
$      ENDCOPY
```

Generated program link-edit

```
$      IDENT   $IDENT,$DEST.EXAMPLE2
$      NOTE    ****************************************
$      NOTE    *             LINK OF TPR                *
$      NOTE    ****************************************
$      OPTION  NOGO,CBL74,SAVE/tpr-name
$      SELECT  $UMCS/$OBJTP.tpr-name
$      LIBRARY L1
$      EXECUTE
$      LIMITS  ,30k
$      PRMFL   L1,R,R,$UMCS/$FILS.USER-RANDLIB
$      PROGRAM TP-LIB
$      FILE    H*,H01SS,10R
$      LIMITS  ,40k
$      PRMFL   **,R,R,SPS/TA4.1/SYS/PROGRAMS
$      FILE    H*,H01R
$      SYSOUT  P1,ORG
$      PRMFL   F1,W/C,R,$UMCT/$FILT.TPR-LIBRARY
$      DATA    IN
      UPDATE  tpr-name.
```

USER TRANSACTION PARAMETERS FOR DMIV-TP

Since the generated TPR's use explicit SENDs in edited mode, the user must truncate extraneous characters from the message using the USEND module (file $UMC/$FILT.O-USEND); this module is also used by the VA Pac on-line system.

In order to use the module, the user must:

. In the SYSGEN source: use the clause 'USE USEND FOR SEND-MSG' in the description of each transaction using screens generated with the multi-terminal option.

. In the SYSGEN COMPILE JCL: use the sequence:

```
$ DATA UL,COPY
$ SELECTD $UMC/$FILT.O-USEND
```

4.5. INSTALLATION TESTS

VISUALAGE PACBASE INSTALLATION TESTS

These tests are run in three steps:

. VA Pac Database utilization tests

. VA Pac Database management tests

. Extraction utility tests.

1. UTILIZATION TESTS

These test jobs include the following steps:

On-line Test

- Open the VA Pac test database files to on-line use,
- Perform screen branching,
- Execute some updates.

Batch update test

- Execute the UPDT procedure.

Generation-printing test

- Execute the GPRT procedure

  (The database files must be closed to on-line use if the '+AG' command is present).

2. VA PAC DATABASE MANAGEMENT TESTS

The purpose of these tests is to execute the VA Pac Database management procedures.

They include the following steps, to be executed in this order:

1. Archive of the journal created during the utilization testing phase:

   Execute the ARCH procedure whose output is the file:
   $UMCU/$FILU.ARCHn (i.e. PJ1).

2. Direct backup of the database:

   Execute the SAVE procedure whose output is the first database backup:
   $UMCU/$FILE.SAVEn (i.e. PC1).

3. Backup of generation-Print requests:

   Execute the SVAG procedure giving the file:
   $UMCU/$FILU.SVAGn (i.e. PG1).

4. Library management: addition/suppression of a library:

   Execute the MLIB procedure whose output is a second database backup:
   $UMCU/$FILU.SAVEn (i.e. PC2).

5. Reorganization of the sequential backup of the database PC2:

   Execute the REOR procedure whose output is the file:
   $UMCU/$FILU.SAVEn (i.e. PC3).

6. Reorganization of the Generation-Print request backup (PG1) and restoration of the resulting file:

   Execute the REAG procedure.

7. Restoration of the database using the archived file PJ1 and the database backup PC3:

   Execute the REST procedure.

During all these test jobs, the VA Pac database files must be closed to on-line use.

Once the VA Pac database is restored, it is recommended to briefly retest on-line operations, after having reopened the database files.

3. TESTS FOR EXTRACTION UTILITIES

The purpose of these tests is to execute the VA Pac database extraction procedures.

They are made up of the following steps, to be executed in the following order:

. Extraction of a library as transactions:

Execute the PACX procedure with the EXLI extractor code.

. Extraction of entities from a library:

Execute the PACX procedure with the EXTR extractor code.

. Extraction of selected transactions and/or lists of selected transactions from the archived Journal file (PJ):

Execute the PACX procedure with the EXPJ extractor code.

The VA Pac database files can be open to on-line use for all these tests.

Each of these procedures may be followed by an UPDT, to verify the validity of these extracted transactions.

5. REINSTALLATION

5.1. STANDARD REINSTALLATION

REINSTALLATION

Reinstallation is executed in two main steps:

. Preparation,
. Installation.

PREPARATION

The preparation consists of:

. A database backup,
. The allocation of a temporary UMC:

$UMCI (60,000 llinks).

. The unloading of the UMC from the provided tape.

INSTALLATION

The reinstallation comprises the following steps:

1. Deparameterizing of the JCLs if required.
2. Installation of batch programs and files.
3. Installation of on-line programs and files.
4. Formatting of sub-program libraries.
5. TPR program link-edit.
6. Error message file restoration.
7. Link-edit of the generation-print stream programs.
8. Link-edit of the extraction stream programs.
9. Link-edit of the PQCA stream programs.
10. Link-edit of the PAF-PDM programs.
11. Link-edit of the Pac/Impact programs.

1. DEPARAMETERIZING THE JCLs

This step must be executed if the following catalog: UMCI/PACD/P250/INST contains a file with PRVooVnn string. 'Voo' designates the installed release and 'Vnn' the release to be installed. This file contains the selection lines of the procedures to be retrieved.

The user must run the UTI110 procedure with the parameter file of the last installation after integrating the file described above.

The deparameterized JCLs are then retrieved via the command:
```
DRUN $UMCI/PACD/P250/INST/JCL;$UMCU/CR
```

2. INSTALLATION OF BATCH PROGRAMS AND FILES
(See the JCL in the following subchapter)

The installation of programs and files necessary for batch use is performed by DRUN execution of the RCBA procedure.

3. INSTALLATION OF ON-LINE PROGRAMS AND FILES
(See the JCL in the following subchapter)

The installation of programs and files necessary for on-line use is performed by the DRUN execution of the RCTP procedure.

4. FORMATTING OF THE SUB-PROGRAM LIBRARY

The RAND procedure must be executed in order to take the new versions of the sub-programs into account.

5. LINK-EDIT OF TPRs

The LNK1, LNK2, LNK3, LNK4 and LNK5 procedures must be executed in order to take the new versions of the on-line programs into account when using the DMIV-TP environment.

The SLU1, SLU2, SLU3, SLU4 and SLU5 procedures must be executed in order to take the new versions of the on-line programs into account when using the TP8 environment.

The re-creation of the TP8 library must then be followed by the ILI8 and CRDY procedures.

6. ERROR MESSAGE FILE RESTORATION

The new error message file is loaded by the PARM procedure (NRCHAR command).

```
NOTE:  If your parameter backup file is valid and if the
       only update you wish to perform is reloading the
       AE0 file, you can use the LOAE procedure.
```

7. LINK-EDIT OF THE GENERATION-PRINT STREAM PROGRAMS

The PACA, PACB, PACC and PACD procedures must be executed so that the linked programs (H*) are consistent with the DMCL.

8. LINK-EDIT OF THE EXTRACTION STREAM PROGRAMS

The LKEX procedure must be executed so that the latest versions of the COBOL-85 programs of the PACX stream can be taken into account.

9. LINK-EDIT OF THE PQCA STREAM PROGRAM

The PACQ procedure must be executed so that the linked program (H*) is consistent with the DMCL.

10. LINK-EDIT OF THE PAF-PDM FUNCTION

The LKEG procedure must be executed in order to take into account the new versions of the COBOL-85 programs of the PAF-PDM function.

11. LINK-EDIT OF THE PAC/IMPACT FUNCTION

The LKEI procedure must be executed in order to take into account the new versions of the COBOL-85 programs of the Pac/Impact function.

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

$UMCI/PACD/P250/BOBJ/PACABE	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACA05	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACA10	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACA15	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACA20	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACA90	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBA	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBB	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBD	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBE	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBED	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBG	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBK	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBL	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBM	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBN	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBP	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBQ	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBR	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACBV	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACB30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACB40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACB80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACB80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACC30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACC40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACC80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACD30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACD40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACD80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACD90	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACE30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACE40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACE80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACF10	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACG3C	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACG3S	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACG4S	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACG8C	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACG8S	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACINS	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACK30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACK80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACK90	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACLTA	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACL30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACL40	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACL90	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACL93	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACM30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACM80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACNT3	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACN30	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACN40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACN50	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACN80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACN90	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACP30	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACP80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACP92	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACQ30	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACR20	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACR22	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACR40	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACR60	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACR61	$UMCS/$OBJBT.

$UMCI/PACD/P250/BOBJ/PACR90	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACSEP	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACTIN	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PACT50	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACT51	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACU15	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACU80	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PACU99	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PADM10	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PAFP10	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PAF900	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PBBTST	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PTU2CL	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU200	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU208	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU210	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU220	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU240	$UMCS/$OBJBT.

$UMCI/PACD/P250/BOBJ/PTU300	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PTU815	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PTU855	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PTU908	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PVA320	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PVA400	$UMCS/$OBJBT.
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$UMCI/PACD/P250/BOBJ/PYSMC2	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/PYSMC3	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/REP2PJ	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SIABBA	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SIABLO	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SIABTP	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABLO	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPA	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPB	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPE	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPG	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPM	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPABPT	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/SPAFPA	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/UTIXSR	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/UTI120	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/UTI130	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/ZARS12	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/ZAR100	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/ZAR200	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/ZAR400	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOBJ/ZAR980	$UMCS/$OBJBT.
$UMCI/PACD/P250/BOB85/PACABE	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACA90	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACBN	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACCTL	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACFGY	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACFMB	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACFTD	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACHOI	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACNT3	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN25	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN30	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN40	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN50	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN80	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACN90	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACSJO	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACSMD	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACSPU	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACSRM	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS30	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS40	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS50	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS60	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS75	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACS80	$UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PACX	$UMCS/$BOB85.

```
$UMCI/PACD/P250/BOB85/PANFQI     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PANFQS     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN200     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN205     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN210     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN212     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN215     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN220     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN230     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN240     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN250     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN255     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN260     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN270     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PAN280     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PBBTST     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/PTUJOB     $UMCS/$BOB85.
$UMCI/PACD/P250/BOB85/SPABPB     $UMCS/$BOB85.
$UMCI/PACD/P250/OBJ85/PBBTST     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/PBBTWS     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/PBTPST     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/PBTPWS     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/SPABPA     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/SPABPB     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/SPAFPA     $UMCS/$OBJ85.
$UMCI/PACD/P250/OBJ85/ZAR980     $UMCS/$OBJ85.
$UMCI/PACD/P250/FILE/PACBB       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBD       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBE       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBG       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBK       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBL       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBM       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBN       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBP       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBQ       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBR       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/PACBV       $UMCS/$FILS.
$UMCI/PACD/P250/FILE/QP          $UMCS/$FILS.
$UMCI/PACD/P250/FILE/YP          $UMCS/$FILS.
$UMCI/PACD/P250/FILE/SF          $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/VGEN     $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/AE0      $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/QC       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/YC       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/QG       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/YG       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/QR       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/YR       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/QS       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/XS       $UMCS/$FILS.
$UMCI/PACD/P250/SP$LANG/MVPQCE   $UMCU/$MV.PQCE
$UMCI/PACD/P250/FILE/CSTPAC      $UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/DGADM       $UMCU/$MB.DADM
$UMCI/PACD/P250/FILE/DGIFWP      $UMCU/$MB.DIFWP
$UMCI/PACD/P250/FILE/DGYSM       $UMCU/$MB.DYSM
$UMCI/PACD/P250/SP$LANG/DGIFW    $UMCU/$MB.DIFW
$UMCI/PACD/P250/SP$LANG/DGMER    $UMCU/$MB.DMER
$UMCI/PACD/P250/SP$LANG/DGOMT    $UMCU/$MB.DOMT
$UMCI/PACD/P250/SP$LANG/MBCBL85  $UMCU/$MB.CBL85
$UMCI/PACD/P250/SP$LANG/MBPGDP   $UMCU/$MB.PGDP
$UMCI/PACD/P250/SP$LANG/MBUPQC   $UMCU/$MB.UPQC
$UMCI/PACD/P250/SP$LANG/MBUTI    $UMCU/$MB.UTI
$UMCI/PACD/P250/SP$LANG/PAFDIC   $UMCU/$MB.PAFD
$UMCI/PACD/P250/SP$LANG/PAFTST   $UMCU/$MB.PAFT
$UMCI/PACD/P250/SP$LANG/PAADM    $UMCU/$MB.PAADM
$UMCI/PACD/P250/SP$LANG/PAIFW    $UMCU/$MB.PAIFW
$UMCI/PACD/P250/SP$LANG/PAMER    $UMCU/$MB.PAMER
$UMCI/PACD/P250/SP$LANG/PAOMT    $UMCU/$MB.PAOMT
$UMCI/PACD/P250/SP$LANG/PAYSM    $UMCU/$MB.PAYSM
```

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

$UMCI/PACD/P250/TOBJ/DSRYSG	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA11	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA12	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA13	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA14	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA15	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA16	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA17	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA18	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA19	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA21	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA22	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA31	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA32	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA33	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA34	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPA35	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPBND	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAPHLP	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQA00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQB00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQCHX	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQC00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQC01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQC50	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQD00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQE00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQF00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQF10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQG00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQH00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQH01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQH20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQH30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI04	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI21	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQI50	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQK10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQK20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQK30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL21	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL40	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL41	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL45	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQL46	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQM00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP04	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP06	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP07	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP08	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQP50	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQR00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS04	$UMCS/$OBJTP.

$UMCI/PACD/P250/TOBJ/ZAQS05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS06	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQS08	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQT50	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQU20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQV30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQX00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQX01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY01	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY02	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY03	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY04	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY05	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY10	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY11	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY20	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQY30	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQZ00	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ000	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ100	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ101	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ102	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ103	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ104	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ200	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ210	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ300	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ400	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ500	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ600	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ700	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ800	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ900	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAQ990	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAR500	$UMCS/$OBJTP.
$UMCI/PACD/P250/TOBJ/ZAR600	$UMCS/$OBJTP.
$UMCI/PACD/P250/FILE/HPFORM	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRCODIF	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRDEC	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRIOPAR	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRMFO	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRPEINT	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/SCRSAISI	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARBUR	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARCII	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARCVS	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARDEC	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARDE2	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARG7	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARG8	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARICL	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARMFO	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARMF1	$UMCS/$SOURCE.
$UMCI/PACD/P250/FILE/ZARTRM	$UMCS/$SOURCE.

6. RETRIEVAL OF PACBASE 802.02, 1.2, 1.6, 2.0

6.1. OPERATIONS TO BE PERFORMED

FOREWORD

If your site is installed with DSMS, Pactables, and/or the VA Pac WorkStation, they must be compatible with VA Pac 2.5.

The VisualAge Pacbase 2.5 Release is compatible with:

. VA Pac WorkStation 2.5
. DSMS 8.02 (compatible with VA Pac 8.02), and higher
. Pactables, all releases

NOTE: Pactables 7.3 or 8.0 requires a special program, PTA250, for the GETT procedure. This program is available upon request.

6.2. RETRIEVAL OF VA PACBASE 2.0

6.2.1. OPERATIONS TO BE PERFORMED

VISUALAGE PACBASE 2.0 RETRIEVAL OPERATIONS

OPERATIONS TO BE PERFORMED

The installation of the 2.5 VA Pac Release does not require a retrieval of the VA Pac Database(s) and associated user files, except for the Generation-Print Requests file (AG).

Once the 2.5 VA Pac Release is installed, you must backup the Database(s) and associated user files with 2.0 procedures and restore them via the standard 2.5 procedures.
To benefit from the new choices, you should include the Reorganization procedure in the retrieval process.

The VA Pac WorkStation's dedicated User Entities must be uploaded into the Database via the UPDT procedure, after the Database has been restored in the new release.

1. Reinstallation of user parameters:

. User Parameters file backup with the 2.0 PARM procedure, producing a PM file, old release (PARM procedure R 2.0).

. Execution of the 2.5 LOAE procedure using as input backup file, the PM file '********' user code and the NRREST command.

. Execution of the 2.5 PARM procedure.

User input includes:

* new access key (on-line input is also possible in CH: PK screen),
* For the VA Pac WorkStation, internal parameters related to the Methodology(ies) in use ("Methodology Choices").

For more details, refer to Chapter "Installation", Subchapter "Installation Process", Section "Complement: VA Pac WorkStation".

RESULT: AE and AP files, containing user parameters operational under VA Pac 2.5 and methodology parameters (if needed).

2. Reinstallation of a VA Pac Database

. Database backup with the 2.0 SAVE procedure, producing a 2.0 PC file.

. Journal file initialization (new INAJ procedure).

. Database restoration with 2.5 REST procedure using in input the previously obtained PC file.

. Backup of Generation-Print Requests file, producing a 2.0 PG file.

. Retrieval of the Generation-Print Requests file (RPPG) producing a 2.5 PG file.

. Restoration of Generation-Print requests file, using in input the 2.5 PG file obtained in the previous step (2.5 REAG procedure).

RESULT: AJ, AN, AR, and AG files operational under the new VisualAge Pacbase Release.

3. Reinstallation of the Production Environment Interface

. PEI backup, producing a PE file (old release).

. PEI restoration (new RSPE procedure) using in input the backup produced by the previous step.

RESULT: AB and AC files, operational under the new VA Pac Release.

6.2.2. RPPG: RETRIEVAL OF GENERATION-PRINT REQUESTS FILE

```
$      IDENT   $IDENT,$DEST.RPPG
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                   *
$      NOTE    *                                                    *
$      NOTE    *               RETRIEVAL OF THE 'PG' FILE           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $UMCU/$JCL.PG0
$ PTU908.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU908
$      EXECUTE DUMP
$      LIMITS  ,30K
$      PRMFL   IN,R,R,$OLDPG
$      PRMFL   OU,W,R,&PGO
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF   PG1,NEWNAM/PGFIL/
MF   PG-1,NEWNAM/PG1/
MF   PG0,NEWNAM/PG-1/
MF   PGFIL,NEWNAM/PG0/
$ END.
$      CONVER
$      DATA    IN
**** RPPG - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

6.3. RETRIEVAL OF PACBASE 802.02, ...,1.6

6.3.1. OPERATIONS TO BE PERFORMED

RETRIEVAL OF PACBASE 8.02V02, 1.2, 1.6 OPERATIONS

OPERATIONS TO BE PERFORMED

The installation of the 2.5 VA Pac Release does not require a retrieval of the VA Pac Database(s) and associated user files, except for the Generation-Print Requests file (AG).

Once the 2.5 VA Pac Release is installed, you must backup the Database(s) and associated user files with earlier procedures (from 8.02V02 to 1.6) and restore them via the standard 2.5 procedures.
To benefit from the new choices, you should include the Reorganization procedure in the retrieval process.

The VA Pac WorkStation's dedicated User Entities must be uploaded into the Database via the UPDT procedure, after the Database has been restored in the new release.

NOTE: When upgrading to 2.5 a VA Pac Release earlier than 2.0, VA Pac 2.5 must be installed in a different environment than that of the earlier release.

1. Reinstallation of user parameters:

. User Parameters file backup with the earlier PARM procedure, producing a PE file.

. Execution of the 2.5 LOAE procedure PM file, old release (PARM procedure R 8.02 to 1.6) with the PE file in input, using the using as input backup file the PM file '********' user code and the NRREST command.

. Execution of the 2.5 PARM procedure.

User input includes:

* new access key (on-line input is also possible in CH: PK screen),
* For the VA Pac WorkStation, internal parameters related to the Methodology(ies) in use ("Methodology Choices").

For more details, refer to Chapter "Installation", Subchapter "Installation Process", Section "Complement: VA Pac WorkStation".

RESULT: AE and AP files, containing user parameters operational under VA Pac 2.5 and methodology parameters (if needed).

2. Reinstallation of a VA Pac Database

. Database backup with the earlier SAVE procedure, producing a PC file.

. Journal file initialization (2.5 ARCH procedure).

. Database restoration with 2.5 REST procedure using in

. Journal file initialization (new INAJ procedure);

. Backup of Generation-Print Requests file, producing a PG file formatted according to your earlier release.

. Retrieval of the Generation-Print Requests file (RPPG) producing a 2.5 PG file.

. Restoration of Generation-Print requests file, using in input the 2.5 PG file obtained in the previous step (2.5 REAG procedure).

. Retrieval of sequential archive file (PJ16 procedure). This procedure is optional. It extracts Journal transactions from older archives, using new programs handling dates with century.

. Retrieval of sequential archive file (RTPJ procedure).

RESULT: AJ, AN, AR, and AG files operational under the new VisualAge Pacbase Release.

3. Reinstallation of the Production Environment Interface

. PEI backup, producing a PP file formatted according to the earlier release.

. Sequential backup retrieval (PP16)

This operation adds the century to all dates managed by PEI. PE file (old release);

. Retrieval of sequential backup (RTPE procedure). procedure).

RESULT: AB and AC files, operational under the new VA Pac Release.

6.3.2. RTPJ: RETRIEVAL OF THE ARCHIVED JOURNAL

```
$      IDENT   $IDENT,$DEST.RTPJ
$      NOTE    ********************************************************
$      NOTE    * VisualAge Pacbase                                    *
$      NOTE    * =================                                     *
$      NOTE    *                                                      *
$      NOTE    *               RETRIEVAL OF ARCHIVE JOURNAL           *
$      NOTE    *                                                      *
$      NOTE    ********************************************************
$      SELECT  $UMCU/$JCL.PJ0
$ REP2PJ.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.REP2PJ
$      EXECUTE DUMP
$      LIMITS  ,30K
$      PRMFL   PJ,R,R,$OLDPJ
$      PRMFL   JP,W,R,&PJO
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF     PJ1,NEWNAM/PJFIL/
MF     PJ-1,NEWNAM/PJ1/
MF     PJ0,NEWNAM/PJ-1/
MF     PJFIL,NEWNAM/PJ0/
$ END.
$      CONVER
$      DATA    IN
**** RTPJ - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

6.3.3. RTPE: RETRIEVAL OF PEI FILES

```
$      IDENT   $IDENT,$DEST.RTPE
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *     RETRIEVAL OF PRODUCTION ENVIRONMENT BACKUP     *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $UMCU/$JCL.PE0
$ PACR90.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PACR90
$      EXECUTE DUMP
$      LIMITS  ,30K
$      PRMFL   PE,R,R,$OLDPE
$      PRMFL   PS,W,R,&PEO
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF   PE1,NEWNAM/PEFIL/
MF   PE-1,NEWNAM/PE1/
MF   PE0,NEWNAM/PE-1/
MF   PEFIL,NEWNAM/PE0/
$ END.
$      CONVER
$      DATA    IN
**** RTPE - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```

6.3.4. RPPG: RETRIEVAL OF GENERATION-PRINT REQUESTS FILE

```
$      IDENT   $IDENT,$DEST.RPPG
$      NOTE    ******************************************************
$      NOTE    * VisualAge Pacbase                                  *
$      NOTE    * =================                                  *
$      NOTE    *                                                    *
$      NOTE    *               RETRIEVAL OF THE 'PG' FILE           *
$      NOTE    *                                                    *
$      NOTE    ******************************************************
$      SELECT  $UMCU/$JCL.PG0
$ PTU908.
$      OPTION  CBL74
$      SELECT  $UMCS/$OBJBT.PTU908
$      EXECUTE DUMP
$      LIMITS  ,30K
$      PRMFL   IN,R,R,$OLDPG
$      PRMFL   OU,W,R,&PGO
$ FILSYS.
$      FILSYS
CPOS $UMCU/$JCL
MF   PG1,NEWNAM/PGFIL/
MF   PG-1,NEWNAM/PG1/
MF   PG0,NEWNAM/PG-1/
MF   PGFIL,NEWNAM/PG0/
$ END.
$      CONVER
$      DATA    IN
**** RPPG - NORMAL END OF RUN ****
$      SYSOUT  OT,ORG
$      OUTPUT  MEDIA/03
$ ERROR.
$      ENDJOB
```