



VisualAge Pacbase 2.5

**VA PAC 2.5 – IBM DOS/VSE
OPERATIONS MANUAL VOLUME I : ENVIRONMENT & INSTALLATION**

DEPDO001251A

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1. FOREWORD

FOREWORD

HOW TO USE THIS MANUAL

This manual is intended for the person in charge of installing the VisualAge Pacbase system.

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

USERS OF PREVIOUS SYSTEM 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.

. Retrieval from VisualAge Pacbase releases older than 8.02v02.

Contact VisualAge Pacbase Support.

. Retrieval from 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 '8.02v02, 1.2, 1.5, 1.6 RETRIEVAL', or chapter '2.0 RETRIEVAL'.

2. VISUALAGE PACBASE COMPONENTS

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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 particular 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 from all other functions.

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

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2.2. CODES OF FUNCTIONS, EXTENSIONS AND 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
-Client/Server Facility	= OCS
-DBD	= DBD
-DBD/ Relational SQL	= SQL
-Pactables	= TAB
-Development & Support Management System (DSMS)	= DSM
-Production Environment Interface	= PEI
-Dictionary Extensibility	= DEX
-Pactransfer	= TRF
-VA Smalltalk / VA Pac Bridge	= VIS
-VA Pac / TeamConnection Bridge	= PTC
-Impact Analysis	= S2K
-Pacbench Quality Control	= PQC
-The WorkStation	= WST
-Pacbase Access Facility	= PAF
-PacReverse	= REV
-Pacbase Web Connection	= PAW

The Security Systems Interface and the DBD DB2 functions are not operational with CICS/DOS/VS.

2.3. ON-LINE PROGRAM LIBRARY

THE ON-LINE PROGRAM LIBRARY (MTR8)

Its size is approximately 1,500 blocks of 6,144 bytes.-----

```
-----  
! PROGRAM ! FUNCTION! CORRESPONDING CHOICE !  
! CODE ! OPTION ! COMMENTS !  
!-----!  
!-----!-----! xxEE transaction !  
! xxPA00 ! DIC ! .Connection screen !  
! xxPA01 ! - ! H !  
! xxPA10 ! - ! HP . !  
! xxPA11 ! - ! LCP.. !  
! xxPA12 ! - ! PC.. !  
! xxPA13 ! - ! PT. !  
! xxPA14 ! - ! PE. !  
! xxPA15 ! - ! PU..... !  
! xxPA16 ! - ! PK !  
! xxPA17 ! - ! PD !  
! xxPA18 ! - ! LCPU..... !  
! xxPA19 ! - ! PW !  
! xxPA20 ! - ! PB !  
! xxPA21 ! - ! PM !  
! xxPA22 ! - ! LCPM !  
! xxPA30 ! PEI ! Prod. Env. Interface menu !  
! xxPA31 ! - ! EE.... !  
! xxPA32 ! - ! EG..... !  
! xxPA33 ! - ! ES.... !  
! xxPA34 ! - ! LSEP..... !  
! xxPA35 ! - ! ED..... !  
! xxPBND ! DIC ! Abend map !  
! xxPPHP ! - ! Help !  
!-----!-----! VA Pacbase transaction !  
! xxQA00 ! DIC ! D.. !  
! xxQB00 ! BSD ! R... !  
! xxQC00 ! DIC ! E..... !  
! xxQC01 ! - ! LUE !  
! xxQC50 ! WST ! ++5 Up/Dw mapping !  
! xxQD00 ! SC ! P.....B et O.....B !  
! xxQE00 ! DIC ! E.....D !  
! xxQF00 ! COB ! P.....SC !  
! xxQF10 ! - ! P.....STR !  
! xxQG00 ! DIC ! K..... !  
! xxQH00 ! OSD ! O..... !  
! xxQH01 ! DIC ! LA LC LE LF LM LN LP LS !  
! ! ! LT LX !  
! xxQH20 ! OSD ! O.....CS !  
! xxQH30 ! - ! O.....O !  
! xxQI00 ! - ! O.....L !  
-----
```

VISUALAGE PACBASE COMPONENTS
ON-LINE PROGRAM LIBRARY

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3

```
-----
! PROGRAM ! FUNCTION! CORRESPONDING CHOICE !
! CODE   ! OPTION ! COMMENTS           !
!-----!
! xxQI01  ! OSD    ! O.....CE (C1)      !
! xxQI02  ! -      ! O.....CE (C2)      !
! xxQI03  ! -      ! O.....SIM        !
! xxQI04  ! -      ! O.....ADR         !
! xxQI05  ! -      ! O.....CE (C3)      !
! xxQI20  ! -      ! O.....M          !
! xxQI21  ! -      !                         !
! xxQI50  ! WST    ! ++4 Up/Dw screen data element !
! xxQK10  ! DIC    ! M.....          !
! xxQK20  ! -      ! M.....CM        !
! xxQK30  ! -      ! M.....CE        !
! xxQL10  ! -      ! B.....          !
! xxQL20  ! -      ! B.....DH         !
! xxQL21  ! -      ! B.....DT         !
! xxQL30  ! -      ! B.....DC         !
! xxQL40  ! SQL    ! B.....DR...      !
! xxQL41  ! -      ! B.....DR...K     !
! xxQL45  ! -      ! B.....GEN        !
! xxQL46  ! -      !                         !
! xxQM00  ! SC     ! P.....CP et O.....CP !
! xxQP00  ! -      ! P.....P  et O.....P  !
! xxQP01  ! -      ! Display   P.....TC !
! xxQP02  ! -      ! Display   O.....TC !
! xxQP03  ! -      ! P.....TC et O.....TC !
! xxQP04  ! -      ! P.....TO          !
! xxQP05  ! -      ! O.....TO          !
! xxQP06  ! -      ! P.....PG et O.....PG !
! xxQP07  ! -      ! O.....PG          !
! xxQP08  ! -      ! P.....PG          !
! xxQP50  ! WST    ! ++6 Up/Dw specific codes !
! xxQR00  ! DIC    ! LL.....L.....      !
! xxQS02  ! -      ! -XP              !
! xxQS03  ! -      ! -ACT             !
! xxQS04  ! -      ! WS               !
! xxQS05  ! -      ! ?                !
! xxQS06  ! -      ! Menus            !
! xxQS08  ! DEX    ! -XQ              !
! xxQT00  ! DIC    ! T.....D          !
! xxQT10  ! -      ! T.....          !
! xxQT20  ! PDM    ! T.....SIM        !
! xxQT50  ! WST    ! ++2 Up/down textes !
!-----!-----! xxEE transaction !
! xxQUPA  ! DIC    ! English monitor   !
! xxQUPF  ! -      ! French monitor    !
-----
```

VISUALAGE PACBASE COMPONENTS
ON-LINE PROGRAM LIBRARY

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2
3

```
-----  
! PROGRAM ! FUNCTION! CORRESPONDING CHOICE !  
! CODE ! OPTION ! COMMENTS !  
!-----!  
!-----!-----! VA Pacbase transaction !  
! xxQU00 ! DIC ! U.. !  
! xxQU01 ! - ! U.....D !  
! xxQU10 ! PDM ! V..... !  
! xxQU20 ! - ! V.....D !  
! xxQV10 ! DIC ! I..... !  
! xxQV20 ! - ! I.....D !  
! xxQV30 ! - ! -G !  
! xxQX00 ! - ! * !  
! xxQX01 ! - ! LH !  
! xxQY01 ! DEX ! F..... !  
! xxQY02 ! - ! F.....CE !  
! xxQY03 ! - ! $ ..... !  
! xxQY04 ! - ! $ .....D !  
! xxQY05 ! - ! Q..... !  
! xxQY10 ! WST ! ++1 Design entities Upload !  
! xxQY11 ! - ! ++3 Design entities Download !  
! xxQY20 ! DIC ! GP !  
! xxQY30 ! - ! JO !  
! xxQZ00 ! - ! VA Pac initial screen !  
! xxQ000 ! SC ! P..... !  
! xxQ100 ! - ! P.....CD !  
! xxQ101 ! - ! P.....HCD !  
! xxQ102 ! - ! !  
! xxQ103 ! - ! !  
! xxQ104 ! - ! !  
! xxQ200 ! DIC ! S.... !  
! xxQ210 ! TAB ! S....SS !  
! xxQ300 ! DIC ! S....CE !  
! xxQ400 ! BSD ! R...L !  
! xxQ500 ! - ! R...D !  
! xxQ600 ! - ! R...CE !  
! xxQ700 ! SC ! P.....W et O.....W !  
! xxQ800 ! - ! P.....8 !  
! xxQ900 ! - ! P.....9 !  
! xxR000 ! DIC ! VA Pacbase monitor !  
! xxR005 ! - ! Return to CICS !  
! xxR100 ! - ! Choice processing !  
! xxR200 ! - ! Format conversion !  
! xxR400 ! - ! N*... ou NH.... !  
! xxR500 ! - ! Abend map !  
-----
```

VISUALAGE PACBASE COMPONENTS
ON-LINE PROGRAM LIBRARY2
3

```
-----  
! PROGRAM ! FUNCTION! CORRESPONDING CHOICE !  
! CODE    ! OPTION ! COMMENTS           !  
!-----!  
!-----!-----! VA Pacbase transaction !  
! xxR600   ! DIC    ! Text editing      !  
! xxR980   ! -      ! Screen formatting !  
! xxR990   ! -      ! WEB formatting    !  
! xxSECT   ! SEC    ! Security system interface !  
!-----!  
!-----!-----! PUF-TP transaction !  
! xxFANM   ! DIC    !                   !  
! xxFBIB   ! -      !                   !  
! xxFCTL   ! -      !                   !  
! xxFDBD   ! -      !                   !  
! xxFECR   ! -      !                   !  
! xxFENU   ! -      !                   !  
! xxFFOG   ! -      !                   !  
! xxFMCL   ! -      !                   !  
! xxFPGM   ! -      !                   !  
! xxFRUB   ! -      !                   !  
! xxFSDO   ! -      !                   !  
! xxFTXT   ! -      !                   !  
! xxFVER   ! -      !                   !  
! xxF000   ! -      !                   !  
!-----!  
! Sub-programs called in the generated programs : !  
! CALL     ! OSD    ! For I.M.S. OLSD      !  
! PBLTDLI ! -      ! IMS or CICS DL/1 OLSD !  
! xxTPST   ! PAF    ! Online PAF       !  
! xxTPWS   ! -      ! Keywords on-line PAF !  
! (must be inserted into the application program library)!  
-----
```

2.4. BATCH PROGRAM LIBRARY

THE BATCH PROGRAM LIBRARY (MBR8)

Its size is approximately 2,000 blocks of 6,144 bytes.

! CODE	! PROCEDURES	! OPTION	! COMMENTS	!
! PACA05	! UPDT	! DIC	!	!
! PACA15	! UPDT REST	! -	!	!
! PACA10	! GPRT	! -	!	!
! PACA20	! -	! -	!	!
! PACB	! -	! -	! GPRT monitor	!
! PACB30	! -	! -	!	!
! PACB31	! -	! SQL	!	!
! PACB40	! -	! DBD	!	!
! PACB80	! -	! -	!	!
! PACCTL	! PACX	! DIC	!	!
! PACC30	! GPRT	! COB	!	!
! PACC40	! -	! -	!	!
! PACC80	! -	! -	!	!
! PACDTP	! INSL	! DIC	!	!
! PACD30	! -	! -	!	!
! PACD40	! -	! -	!	!
! PACD80	! -	! -	!	!
! PACD90	! -	! -	!	!
! PACE30	! -	! OSD	!	!
! PACE40	! -	! -	!	!
! PACE80	! -	! -	!	!
! PACFGY	! PACX	! DIC	!	!
! PACFMB	! -	! -	!	!
! PACFTD	! -	! -	!	!
! PACG3C	! GPRT	! OCS	!	!
! PACG3S	! -	! -	!	!
! PACG4S	! -	! -	!	!
! PACG8C	! -	! -	!	!
! PACG8S	! -	! -	!	!
! PACHOI	! PACX	! DIC	!	!
! PACINS	! VINS	! -	!	!
! PACK30	! GPRT	! OCS	!	!
! PACK80	! -	! -	!	!
! PACK90	! -	! -	!	!
! PACL30	! -	! SC	!	!
! PACL80	! -	! -	!	!
! PACL90	! -	! -	!	!
! PACL92	! EMUP	! -	!	!
! PACL93	! EMLD	! -	!	!

VISUALAGE PACBASE COMPONENTS
BATCH PROGRAM LIBRARY

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! CODE	! PROCEDURES	! OPTION	! COMMENTS	!
! PAACL95	! GPRT	! PAW		!
! PACM30	! -	! DIC		!
! PACM80	! -	! -		!
! PACN30	! -	! PDM		!
! PACN35	! -	! -		!
! PACN40	! -	! -		!
! PACN50	! -	! -		!
! PACN80	! -	! -		!
! PACP30	! -	! SC		!
! PACP40	! -	! -		!
! PACP80	! -	! -		!
! PACP82	! -	! -		!
! PACQ	! PQCA	! PQC	! PQCA Monitor	!
! PACR01	! INPE	! PEI		!
! PACR10	! PRPE	! -		!
! PACR20	! GPRT	! -		!
! PACR22	! SIPE	! PEI		!
! PACR30	! HIPE	! -		!
! PACR40	! GRPE	! -		!
! PACR60	! SVPE	! -		!
! PACR61	! RSPE	! -		!
! PACSJO	! PACX	! DIC		!
! PACSMD	! -	! -		!
! PACSPU	! -	! -		!
! PACSRM	! -	! -		!
! PACS30	! -	! -		!
! PACS40	! -	! -		!
! PACS50	! -	! -		!
! PACS60	! -	! -		!
! PACS75	! -	! -		!
! PACS80	! -	! -		!
! PACTIN	! GETI	! TAB		!
! PACTI1	! GETO	! -		!
! PACT40	! GETA GETD	! -		!
! PACT41	! GET1 GET2	! -		!
! PACT45	! GETA GETD	! -		!
! PACT50	! GETD	! -		!
! PACT51	! GET2	! -		!
! PACU15	! PARM	! DIC		!
! PACU80	! -	! -		!
! PACU99	! CRYP	! -		!
! PACX	! PACX	! -		!
! PADM10	! SADM	! WST	! SSADM integrity check	!
! PAFP10	! PPAF GPRP	! PAF	! PAF pre-processor	!
! PAF900	! UPDP	! -	! PAF update input	!

! CODE	! PROCEDURES	! OPTION	! COMMENTS	!
! PAN200	! INFQ	! S2K		!
! PAN205	! INFP	! -		!
! PAN210	! ISEP	! -		!
! PAN212	! ISOS	! -		!
! PAN215	! ISEP IANA	! -		!
! PAN220	! IPFQ IANA	! -		!
!	! IPEP	! -		!
! PAN230	! IANA	! -		!
! PAN240	! IPFQ	! -		!
! PAN250	! IANA	! -		!
! PAN255	! IGRA	! -		!
! PAN260	! IANA	! -		!
! PAN270	! IPIA	! -		!
! PAN280	! IPIA	! -		!
! PBBTST	! Sub-pgm	! PAF	! Called by batch user pgms!	!
! PBBTWS	! -	! -	! - - - - -	!
! PBBT98	! -		! Called by PBBTST PBBTWS	!
! PDS600	! DEXP	! DSM	! DEXP before 2.0	!
! PDS610	! -	! -	! - -	!
! PREI00	! RVDE	! REV	! PACREVERSE Interface	!
! PREI40	! RVKE	! -	! - -	!
! PREI50	! -	! -	! - -	!
! PRE986	! RVDE	! -	! - -	!
! PTARSD	! RMTD	! TAB	! Migration: rest. TD	!
! PTAR20	! RPTD	! -	! Migration: retrieval TD	!
! PTASVD	! SMTD	! -	! Migration: saves TD	!
! PTC010	! TCLS	! PTC	! VA Pac-TeamConnection	!
! PTC030	! -	! -	! - -	!
! PTC100	! TCGP	! -	! - -	!
! PTC200	! TCME	! -	! - -	!
! PTC220	! TCCI TCME	! -	! - -	!
! PTC400	! TCCI	! -	! - -	!
! PTC440	! -	! -	! - -	!
! PTED30	! XPDM	! PDM	! PDM Extension	!
! PTED60	! -	! -	! - -	!
! PTEP90	! PRGS	! -	! - -	!
! PTEXD0	! XPAF	! PAF	! PAF Extension	!
! PTEX30	! -	! -	! - -	!
! PTEX80	! -	! -	! - -	!
! PTUBAS	! SAVE UPDT	! DIC	! Database integrity check	!
! PTUCSS	! CSES	! -	! Compression Session No.	!
! PTUESS	! ESES	! -	! Extraction Session No.	!

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! CODE	! PROCEDURES	! OPTION	! COMMENTS	!
! PTUG05	! TRJC	! TRF	! Pac/Transfer Facility	!
! PTUG06	! -	! -	! -	!
! PTUG07	! -	! -	! -	!
! PTUG10	! TRUP	! -	! -	!
! PTUG11	! -	! -	! -	!
! PTUG12	! -	! -	! -	!
! PTUG42	! TRDU	! -	! -	!
! PTUG44	! -	! -	! -	!
! PTUG46	! -	! -	! -	!
! PTUG50	! TRPF	! -	! -	!
! PTUG60	! TRRP	! -	! -	!
! PTUG61	! -	! -	! -	!
! PTUG90	! TRRT	! -	! -	!
! PTULOI	! RTLO	! DIC	! Locks retrieval	!
! PTULVB	! LVBL	! -	! Repl. low-values with ! blanks	!
! PTUQ10	! PQCE	! PQC	!	!
! PTUQ15	! -	! -	!	!
! PTUQ20	! PQCA	! -	!	!
! PTUQ24	! -	! -	!	!
! PTUQ25	! -	! -	!	!
! PTUQ30	! -	! -	!	!
! PTUR00	! STOP	! -	!	!
! PTU001	!	! DIC	! All procedures with input! ! transactions	!
! PTU004	! REST REAG	! -	! User code check	!
! PTU100	! MLIB	! DIC	!	!
! PTU120	! -	! -	!	!
! PTU130	! SASN	! LCU	!	!
! PTU140	! -	! -	!	!
! PTU2CL	! REOR	! DIC	!	!
! PTU200	! -	! -	!	!
! PTU208	! -	! -	!	!
! PTU210	! -	! -	!	!
! PTU220	! -	! -	!	!
! PTU240	! -	! -	!	!
! PTU300	! ARCH	! DIC	!	!
! PTU320	! -	! -	!	!
! PTU380	! REST	! -	!	!
! PTU400	! -	! -	!	!
! PTU402	! RESY	! -	!	!
! PTU420	! REST	! -	!	!
! PTU500	! SAVE	! -	!	!
! PTU502	! SASY	! -	!	!

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BATCH PROGRAM LIBRARY

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! CODE	! PROCEDURES	! OPTION	! COMMENTS	!
! PTU550	! SVAG	! DIC		!
! PTU560	! REAG	! -		!
! PTU630	! ACTI	! ACT		!
! PTU640	! -	! -		!
! PTU810	! EMSN	! LCU		!
! PTU815	! MESN	! -		!
! PTU850	! CPSN	! -		!
! PTU855	! -	! -		!
! PVA100	! VDWN	! VIS		!
! PVA110	! -	! -		!
! PVA300	! VUP1	! -		!
! PVA310	! -	! -		!
! PVA320	! VUP2	! -		!
! PVA400	! VPUR	! -		!
! PYSMCC	! YSMC	! WST	! YSM consistency check	!
! PYSMC2	! -	! -		!
! PYSMC3	! -	! -		!
! UTIXSR	! UXSR	! DIC		!
! -----	! -----	! -----	! -----	!
! PACSECB	! SUB-PROG	! SEC	! Called by VA Pac programs!	!
! PACN25	! GPRT	! PDM	! - - - -	!
! PACN90	! -	! -	! - - - -	!
! PACSEP	! GPRT UPDT	! DIC	! Banner print sub-program ! ! REST ! (to separate reports) !	!
! PACA90	! GPRT UPDT	! -	! Data Element format ! ! REST ! Analysis sub-program !	!
! -----	! -----	! -----	! -----	!
! Retrieval from Pacbase 802.02, 1.2, 1.5, 1.6				!
! -----	! -----	! -----	! -----	!
! PACR90	! PP16	! PEI	! PEI backup	!
! REP2PJ	! PJ16	! DIC	! Archive	!
! -----	! -----	! -----	! -----	!
! Retrieval from VA Pacbase 2.0				!
! -----	! -----	! -----	! -----	!
! PTU908	! RPPG	! DIC	! Generation-printing req.	!
! -----	! -----	! -----	! -----	!

2.5. SYSTEM PARAMETER LIBRARY

THE (SLI) SYSTEM PARAMETER LIBRARY

Its size does not exceed one track of a 3380 disk unit.

It contains the JCL members or IDCAMS commands inserted into\$ SLI').

- DF_{xx}_{yy}_{ff} contains the IDCAMS commands for defining the database files,

where: ff = the file code,
 xxyy = a prefix made up of the system root and of
 a code representing either a system or
 user
 file.

- RG_{xx}_{yy}_{ff} contains the IDCAMS commands for rotating the back-up files,
permitting the centralized management of the number of generations saved.

- DBJ_{xx}_{yy} contains the JCL inserted at the beginning of each job (resource
definitions, standards).

- pppp_{xx}_{yy} contains the JCL for certain procedures, where: pppp = the
procedure code.

In order to simplify installation, it is preferable to use an existing library already
declared in the POWER JCL in LIBDEF SOURCE,SEARCH.

2.6. PROCEDURE LIBRARY

THE (VSE) PROCEDURE LIBRARY

Its size does not exceed one track of a 3380 disk unit.

It contains the procedures for parameterized JCL and for defining sort space or non-VSAM work space.

It must be shared by VA PAC , PACTABLE, and DSMS in order to avoid work space conflicts between partitions.

2.7. BATCH PROCEDURES

THE BATCH PROCEDURES

Procedures associated with batch processing are described in Parts II and III of the Operations Manual (Batch Procedures: Administrator's Guide --for those procedures involving only the Database Administrator-- and User's Guide --for those available to the user).

The documentation of each procedure includes the following:

- . General presentation
- Introduction
- Execution conditions
- Corrections in case of an ABEND
- . Description of user input, processing and results, as well as recommendations for use.
- . Description of steps
- List of permanent and temporary files in use,
- Return codes (if any) produced by each step.
- . Command file (JCL lines)

PROCEDURE CLASSIFICATION

Batch procedures are documented in the following manuals:

Batch procedures - Administrator's guide:

- 1) Database Management utilities.
- 2) Versioning utilities (PEI and Pactransfer).
- 3) Manager's utilities.
- 4) Migrations.

Batch procedures - User's guide:

- 1) Standard procedures.
- 2) Personalized extraction and automated documentation.
- 3) Quality analysis and control.
- 4) Methodology integrity check.
- 5) Pactables.
- 6) Impact Analysis.
- 7) VisualAge Smalltalk / VisualAge Pacbase Bridge.

Environment and installation:

Previous release retrieval procedures:

- . Releases 8.02v02 - 1.6:
 - Archive Journal retrieval (PJ16)
 - Sequential PEI backup retrieval (PP16)
- . Release 2.0:
 - Generation-print Requests file retrieval (RPPG)

2.8. SYSTEM FILES

SYSTEM FILES

Besides the libraries described in the preceding sub-chapters, the VA PAC system includes the following permanent files:

- . A file containing the ERROR MESSAGES and the ON-LINE DOCUMENTATION of the VA PAC system: AE0.

```
. Size      : approx. 32,000 records
. Organization : SAM-ESDS
. Recsize    : 80
. Utilization : Batch
. Definition  : SLI member DF$PRO.$PRO.AE0
```

This file is not directly used in normal system operation. It is concatenated with the USER PARAMETERS required by the on-line operation of the system (*), to form one file called AE.

```
. Size      : = AE0 + user parameters
. Organization : VSAM-KSDS
. Recsize    : 80
. Key       : 12 (position 0)
. Utilization : batch and on-line
. Definition  : SLI member DF$PRO.$PRO.AE
```

- . A file containing the USER PARAMETERS required by batch operations only (*): AP.

```
. Size      : user parameters
. Organization : VSAM-KSDS
. Recsize    : 80
. Key       : 7 (position 0)
. Utilization : batch and on-line
. Definition  : SLI member DF$PRO.$PRO.AP
```

(*) The AE file handles the following USER PARAMETERS:

- User codes,
- VA PAC access keys,
- Security System Interface activation,
- Activation of blank password check,
- Activation of batch procedure execution check,
- Text types,
- Management of accented character conversion,
- Pacdesign methodology parameterization, and
- the DSMS-VA PAC connection.

The AP file handles the following USER PARAMETERS:
modification of fixed parts of standard error messages,
and control cards necessary for the generation of programs.

All user parameters are managed by a special transaction and a special procedure (PARM). For more information, refer to Chapter 'PARM: USER PARAMETER UPDATE', in the 'BATCH PROCEDURES' part of this manual.

PARM builds the AE and AP files, and manages:

. A USER PARAMETER backup file: PE.

```
. Organization : sequential (SAM-ESDS or SAM)
. Physical name: $PXU.SEQ.$PRO$PRO.PE
. Format type  : fixed
. Length       : 80
. Utilization  : Batch
. Rotation     : SLI member RG$PRO.$PRO.PE
```

The PE file is the actual backup of ALL THE USER PARAMETERS found in the AE and AP files.

. A skeleton generation file: SC, used by the STRUCTURED CODE and BATCH SYSTEMS DEVELOPMENT functions:

```
. Size          : approximately 40 records
. Organization : VSAM-KSDS

. Recsize      : 3,204
. Key          : 4 (position 0)
. Definition   : SLI member DF$PRO.$PRO.SC
```

. A skeleton file for generation, SG, used by the ON-LINE SYSTEMS DEVELOPMENT, DATABASE DESCRIPTION, and SPECIFICATIONS DICTIONARY functions:

```
.Size      : approximately 360 records
.Organization : VSAM-KSDS
.Recsize    : 4,605
.Key       : 5 (position 0)
.Utilization : Batch only
.Definition  : SLI member DF$PRO.$PRO.SG
```

. A skeleton file for generation, SR, used by the COBOL GENERATOR function:

```
.Size      : approximately 25 records
.Organization : VSAM-KSDS
.Recsize    : 4,605
.Key       : 5 (position 0)
.Utilization : Batch only
.Definition  : SLI member DF$PRO.$PRO.SR
```

. A skeleton generation file SP, used by the XPAF function for the generation of extractors:

```
.Size      : approximately 5 records
.Organization : VSAM-KSDS
.Recsize    : 4,605
.Key       : 5 (position 0)
.Utilization : Batch only
.Definition  : SLI member DF$PRO.$PRO.SP
```

. A skeleton generation file SF, used by the XPAF function for the generation of extractors:

```
.Size      : approximately 3,000 records
.Organization : SAM-ESDS
.Recsize    : 119
.Utilization : Batch only
.Definition  : SLI member DF$PRO.$PRO.SF
```

. A skeleton file for generation, SS, used for the CLIENT/SERVER ON-LINE SYSTEM DEVELOPMENT functions:

```
.Size      : approximately 300 records
.Organization : VSAM-KSDS
.Recsize    : 4,605
.Key       : 5 (position 0)
.Utilization : Batch only
.Definition  : SLI member DF$PRO.$PRO.SS
```

PAF FUNCTION (VA PAC ACCESS FACILITY)

An indexed work file is required to use the PAF function, for all on-line user

programs accessing databases which have the same root.

. PAF on-line work file (PA)

```
. Organization : VSAM-KSDS
. Format      : variable
. Recsize     : average 200, maxi 539
. Key         : 37 (position 2)
. Utilization : updated by sub-programs
                 xxTPST and xxTPWS,
                 called by the on-line user
                 programs
. Definition  : SLI member DF$PRO.$PRO.PA
```

To use the PAF function, an indexed work file is also required for all batch user programs. This file is defined by the NOALLOCATION option and can be deleted at the end of the job or simply de-allocated (using IDCAMS VERIFY with DISP=NEW in DLBL).

If PAF user programs are to be run simultaneously in several partitions, the '%' character must be placed on the first position of the physical name. This automatically generates a suffix linked to the partition, concatenated to the file name.

. PAF batch work file

```
. Organization : VSAM-KSDS
. Format      : variable
. Recsize     : average 170, maxi 468
. Key         : 12 (position 0)
. Utilization : Updated by sub-program
                 PBBT98 called by PBBTST/PBBTWS
                 (PAF sub-programs called by
                 the user programs)
. Definition  : SLI member DFSYSPA.F
```

PAF FUNCTION EXTENSION

. An extraction Master Paths file (GS) containing the user extractors and macro-commands.

```
. Organization : VSAM-KSDS
. Recsize     : 203
. Key         : 25 (position 0)
. Utilization : Batch and TP
. Definition  : SLI member DF$PRO.$PRO.GS
```

2.9. EVOLVING FILES

VA PAC DATABASE 'EVOLVING' FILES:

These files contain user information. They are handled by the system in on-line or in batch mode.

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

THE DATA FILE (AR)

```
.Organization : VSAM-RRDS
.Recsize     : 140
.Utilization : Batch and On-line
.Definition   : SLI member DF$PRO.$PFI.AR
```

Each VA PAC line managed by the system 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 beginning of this chain is the most recent state of the line, and at the end, the oldest state of the line. Programs never access a VA PAC line directly in this file, but first obtain the number of the top of the chain by consulting the index file (AN).

THE INDEX FILE (AN)

```
.Organization : VSAM-KSDS
.Recsize     : 54
.Key         : 43 (position 0)
.Utilization : Batch and On-line
.Definition   : SLI member DF$PRO.$PFI.AN
```

The index file, by the contents of its key, describes the various views of the VA PAC Database that are offered to the user. It identifies the VA PAC line based on its position in the database and on the consultation view. It also ensures additional technical functions.

The essential information provided here is the internal number of the VA PAC line to which the index points.

THE GENERATION-PRINTING REQUEST FILE (AG)

```
.Organization : VSAM-KSDS
.Recsize     : 150
.Key         : 26 (position 0)
.Utilization : Batch and On-line
.Definition   : SLI member DF$PRO.$PFI.AG
```

This is a storage area for users, which allows input and manipulation of user generation-printing requests. This file is rather small, however it is subject to heavy update activities on a daily basis. It is saved by the SVAG procedure.

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

THE JOURNAL FILE (AJ)

```
.Organization : VSAM-RRDS
.Recsize     : 165
.Utilization : Batch and On-line
.Definition   : SLI member DF$PRO.$PFI.AG
```

All update transactions performed on the database, whether in batch or on-line, are saved in order 1) to allow database restoration should the standard security system fail, and 2) to provide an information resource to the database evolution analysis.

Transactions are usually stored in the Journal back-up file (PJ). The Journal file is only used as a transition between the time the transactions are processed and the time the ARCH procedure sends them to their final destination: the PJ file.

NOTE:

The transactions contained in the Generation-Printing Request file (AG) are not saved in the Journal file (AJ).

Three sequential files, found either on a disk or on tape, make up the back-up of the database.

When on a disk, the number of generations saved at any time is centrally controlled in an SLI member. At the time of installation, the generations saved are G(-1) and G(0), which are coded OLDff and ff.

DATABASE BACK-UP FILE (PC)

```
.Organization : Sequential (VSAM-ESDS or SAM)
.Physical Name : $PXU..SEQ.$PRO$PFI.PC
.Format : Variable
.Utilization : Batch
.Size : 149 bytes per data record
          55 bytes per index record
.Definition : SLI member DF$PRO.$PFI.PC
.Rotation : SLI member RG$PRO.$PFI.PC
```

This is a sequential back-up file of the VA PAC components: Index (AN), Data (AR).

JOURNAL BACK-UP FILE (PJ)

```
.Organization : Sequential (VSAM-ESDS or SAM)
.Physical Name : $PXU..SEQ.$PRO$PFI.PJ
.Format : Fixed
.Length : 165
.Utilization : Batch
.Rotation : SLI member RG$PRO.$PFI.PJ
```

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 the PJ file into several files and the most recent one is used on a daily basis.

GENERATION-PRINTING REQUEST BACK-UP FILE (PG)

```
.Organization : Sequential (VSAM-ESDS or SAM)
.Physical Name : $PXU..SEQ.$PRO$PFI.PG
.Format : Fixed
.Length : 150
.Utilization : Batch
.Rotation : SLI member RG$PRO.$PFI.PG
```

The purpose of this file is to back up the generation-printing requests and to reorganize them using the REAG procedure.

PEI FUNCTION (PRODUCTION ENVIRONMENT INTERFACE)

For sites where the PEI Function is available, three additional files are managed either in on-line or batch mode. (See the Chapter dedicated to this option). These files contain all the data necessary for the management of the production environment.

BATCH PRODUCTION ENVIRONMENT FILE (AB)

```
.Organization : VSAM-KSDS
.Recsize     : 110
.Key         : 26 (position 0)
.Utilization : Batch and on-line reads
.Definition   : SLI member  DF$PRO.$PFI.AB
```

ON-LINE PRODUCTION ENVIRONMENT FILE (AC)

```
.Organization : VSAM-KSDS
.Recsize     : 110
.Key         : 26 (position 0)
.Utilization : Batch and on-line
.Definition   : SLI member  DF$PRO.$PFI.AC
```

PEI BACKUP FILE (PP)

```
.Organization : Sequential (VSAM-ESDS or SAM)
.Physical Name: $PXU..SEQ.$PRO$PFI.PP
.Format       : Fixed
.Length        : 110
.Utilization   : Batch
.Rotation      : SLI member  RG$PRO.$PFI.PP
```

DEVELOPMENT AND SUPPORT MANAGEMENT SYSTEM (DSMS)
FUNCTION

For sites where the Development and Support Management Function (DSMS) is installed, a file from this module is read in batch and on-line mode by VA PAC. (For more information, refer to the DSMS Operations Manual.)

This file contains the list of VA PAC entities which are to be updated for each CHANGE NUMBER. (The Change Number is entered on the VA PAC Sign-On screen.)

DSMS VA PAC ENTITY FILE (DC)

```
.Organization : VSAM-KSDS
.Format      : Variable
.Recsize     : Minimum: 50 - Maximum: 168
.Key        : 31 (position 2)
.Utilization : Read by on-line or batch mode
               updates.
```

This file's allocation and initialization are performed when installing the DSMS Function.

3. ENVIRONMENT

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3.1. INTRODUCTION

INTRODUCTION

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

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3.2. ON-LINE ENVIRONMENT

ON-LINE ENVIRONMENT (CICS)

The monitor used is CICS VSE since the Release 1.7.

It must include BMS (the PAGING option is not used by the VA Pac system) with the option MAPALGN=NO.

It must include the option SPOOL=YES for the submission of batch jobs (GP choice).

The Data (AR), Index (AN), Journal (AJ), Generation-Printing Requests (AG) as well as the Error Messages (AE) and User Parameter (AP) files are updated on-line and must be protected by the 'DYNAMIC BACKOUT' option.

The same applies for the on-line production environment file (AC) of the PEI function.

The maximum number of strings to be used per file is two. This number can thus be adjusted without restriction according to the available space in the CICS partition. (See Subchapter 'Efficiency Enhancement.)

The use of the CICS 'EMERGENCY RESTART' option is recommended.

The size of the COMMAREA in use is 3.5 K.

The average size of an on-line program is 48K, the largest being 115K.

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GENERAL INFORMATION - HOW THE SYSTEM RUNS

The general characteristics are:

VISUALAGE PACBASE TRANSACTION:

A single transaction code is used. It points to a 'monitor' program whose purpose is to chain together the different programs that make up the system. No screen is directly driven by this program. (Program code: R000).

- . Each screen that can be used for updating is associated with a given program (for example: QC00 updates the definition of a data element).
- . Screens that display the 'simple' lists are processed in a single program (QH01).
- . The so-called 'special' lists, such as the cross-references, keywords, etc., are processed in specific programs (QS02, QS03, QS04 and QS05).
- . Menus are processed in QS06.
- . Some programs are called by the LINK command. This is the case for the program that processes the CHOICE field (R100), as well as for the program that validates the data element formats (R200).
- . In case of a system ABEND, an 'ABEND MAP' is generated. The display program for this map (R500) is called by XCTL.
- . Updates are serialized; in other words, the system protects the database against concurrent accesses by placing all update transactions in a wait queue (ENQUEUE and DEQUEUE in the update cycle).

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A specific program is called when the user quits the VA Pac transaction (program code: R005). This program displays the message:

CURRENT PACBASE CONVERSATION IS SAVED

when users leave the transaction using the CHOICE .12 or the corresponding PFkey (standard : PF12), and executes an "EXEC CICS RETURN".

In order to avoid giving control to CICS, the R005 program may be replaced by a user-program which will, for instance, call a user transaction.

VA Pac sends a 3-character COMMAREA at the end of the transaction:

position 1-2: Blank or 12 (conversation back-up)
 position 3 : 'A' or 'F': language code (install. parameter)

The program replacing R005 may use the COMMAREA, and display the message 'CURRENT CONVERSATION SAVED' when the first two positions are '12' and the third is 'A'.

USER PARAMETER AND PEI TRANSACTION:

A specific transaction code is used to:

- . Manage user parameters (standard),
- . Manage the production environment (available with the PEI function).

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UPPERCASE AND LOWERCASE MANAGEMENT

The VisualAge Pacbase system has its own input character management system:

- . All codes entered in lowercase are automatically transformed into uppercase,
- . All entity names, as well as text, remain in lowercase. Implicit keywords drawn from entity names are changed into uppercase words.

In order to inhibit the lowercase to uppercase switch, the letter 'X' should be entered in the ACTION CODE field.

If active, the UCTRAN option of the terminal is automatically inhibited by PACBASE (UCTRAN=NO) for the time of the connection, so that this control is available.

It is nevertheless possible to work in uppercase mode, by neutralizing the supplied standard routine. To do this, rename the xxUCTR program, then rename xxUCTX as xxUCTR.

In Batch mode, the character transformation follows the rules that apply to On-Line mode.

If you wish to work in uppercase mode only, use the functionalities of the editor that contain the PACBASE batch transactions, to ensure automatic switch from lowercase to uppercase, since VA Pac itself does not perform this transformation in batch mode.

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3.3. ACCESS METHODS

ACCESS METHODS (VSAM)

The VA Pac system manages its files using the indexed VSAM- KSDS access method without a secondary index and the relative VSAM-RRDS access method.

All files are protected against concurrent write accesses (SHARE OPTION 2). This share option is the only protection of the VA Pac system against simultaneous updates, both in on-line and batch modes.

Production Environment Interface:

As the AB file may be updated in batch mode by simultaneous GPRT procedures, it is not protected (SHARE OPTION 4).

All batch procedures include DELETE/DEFINE steps to take care of file reloading. Therefore, the files do not need to include the REUSE default option.

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3.4. BATCH ENVIRONMENT

TEMPORARY FILES

In batch mode, the system runs using both the standard functions of the operating system and the VSAM access method.

The internal work files of procedures are mostly of the SAM-ESDS type. They are defined and deleted for each utilization, except for those files specific to the GPRT procedure, whose 'envelope' (i.e. the entry of the VSAM catalog) is permanent. Their size remains null while they are not in use.

PARTITION SIZE

The memory size necessary to the execution of the batch procedures varies mostly by the size of the buffers allocated to the files used by those procedures.

Three parameters are of particular significance:

- The size of the EXEC Card, given in the parameter SIZE, which relates to the loading area of the executable load- modules.
- The size of the GETVIS AREA, used especially by VSAM for buffers.
- The total size of the partition, defined for the system, and which is the sum of the two preceding areas.

All procedures, except those described below, can be executed in a 512K partition.

```
-----  
! PROC ! PROGRAM ! SIZE ! GETVIS ! COMMENTS !  
-----  
! REOR ! PTU220 ! 870K ! 250K ! !  
! GPRT ! PACE80 ! 425K ! 350K ! On-line generator !  
! ! PAFF10 ! 520K ! 50K ! PAF user pre-compilation!  
! ! ! ! ! program !  
! SASN ! PTU140 ! 560K ! 150K ! !  
! 9INS ! PACDTP ! 910K ! 150K ! !  
-----
```

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3.5. TAPE USAGE

TAPE USAGE

Files that are likely to be large can be re-directed onto tapes.

In procedures, the SYSnnn logical unit associated to the file(s) --which must be assigned to a tape drive-- is specified by a comment.

For files re-directed onto a tape, the maximum blocking factor is used. Therefore, files with smaller blocking factors are automatically accepted.

3.6. FILE SIZE

FILE SIZE

The total amount of space needed for the files depends on the size of the applications managed by the system.

The following table indicates the disk space necessary for a standard installation:

! Approximation in millions of !			
! bytes !			
! TOTAL VSAM Non-VSAM !			
! Installation total	! 55	24	31
! System total	! 35	7	28
! Installation test user	! 20	17	3
! file total	!		!

The size of the VA Pac system files remains fixed.

The size of the user files is explained on the next page. It is possible to get a rough estimate of the space to be allocated by allowing 400 bytes per VA Pac data, all files included.

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The total amount of space needed for the EVOLVING (USER) FILES can be calculated by assuming the following:

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

- (AR) Data File: NPAC records of 140 bytes.
- (AN) Index File: Approx. 3 * NPAC records of 54 bytes (on average, an element is used 3 times), plus the free space (FSPC) added when defining the file.
- (AG) Generation-Printing Request File: Generally takes up little space. As an estimate, it should be able to contain approximately a hundred or so requests per user accessing the system (150 bytes).
- (AJ) Journal File: It must contain enough space for all update transactions, in batch or on-line mode, that may pass between 2 re-initializations of the Journal file. A VA Pac transaction corresponds to one record of the Journal file (167 bytes).
- (AP) User Parameter File: Takes up minimal space. It contains the site JCL lines and optional modifications of standard error messages (80 bytes per record).

CALCULATION OF VSAM FILE SIZE

KSDS file:

No. of Rec./CI = (CISIZE DATA - 10 - Free space CI) / RECSZ

RRDS file:

No. of Rec./CI = (CISIZE - 4) / (RECSZ + 3)

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Example

For a database containing 1,000,000 data records, there are:

AN file: DATA CISIZE(4096) RECSZ(54) FSPC(10,6)

```
.CI free space = 10 % of 4096 = 409
.No. of records per CI = (4096 - 10 - 409) / 54 = 71
.No. of CI's per 3380 disk track = 10
(See 'VSAM Administration Guide' IBM GC26-4066-1)
.Maximum No. of CI's/CA (1 CA = one 3380 cylinder) =
10 * 15 = 150
.CA free space = 6 % of 150 = 9
.No. of CI's used for each CA = 150 - 9 = 141
```

Thus, for 3,000,000 data records (3 * NPAC), there are about:

$$\begin{aligned}3,000,000 &/ 71 = 42,254 \text{ CI's}, \\42,254 &/ 141 = 300 \text{ DATA CA's},\end{aligned}$$

which represents about 300 cylinders of a 3380 disk.

AR file: CISIZE(2048) RECSZ(140)

```
.No. of records per CI = (2048 - 4) / (140 + 3) = 14
.No. of CI's per 3380 disk track = 18
(See 'VSAM Administration Guide' IBM GC26-4066-1)
.No. of CI's/CA (1 CA = one 3380 cylinder) =
18 * 15 = 270
```

Thus, for 1,000,000 data records (NPAC), there are about:

$$\begin{aligned}1,000,000 &/ 14 = 71,429 \text{ CI's}, \\71,429 &/ 270 = 265 \text{ CA's},\end{aligned}$$

which represents about 265 cylinders of a 3380 disk.

The total represents about 400 million bytes for the two most important evolving files of the database.

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PRODUCTION ENVIRONMENT INTERFACE OPTION (PEI)

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

- .record length: 110
- .number of load-module libraries: NLM
- .number of entities in production: NEP
- .number of generated entities per load-module library: NEG

The number of storage bytes needed should be:

$$110 * (NLM + (2 * NEP) + NEG).$$

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3.7. EFFICIENCY ENHANCEMENT

EFFICIENCY ENHANCEMENT

The performance of the VisualAge Pacbase system may be improved in batch or on-line mode in several ways, depending on the environment and on the size of the managed VA Pac databases.

This chapter provides information necessary for efficiency enhancement.

The file, program and JCL installation default options may be modified according to the suggestions described below. It is also possible to enhance efficiency by modifying the system environment, which is not described in this chapter since it depends on the specifications of each site.

Moreover, it is recommended not to modify too many chosen default options, so that the VA Pac Database Manager can retrieve these modifications easily when reinstalling the system.

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3.7.1. INSTALLATION OF THE INDEX AND DATA FILES

INSTALLATION OF THE INDEX (AN) AND DATA (AR) FILES

Where possible, the AN and AR files should be copied onto separate volumes.

For large VA Pac Databases (more than one million data items), it may also be appropriate to allocate the AN and AR files onto several volumes.

Since the AN file is used in its entirety by the system, it is possible to carry out a multi-volume installation simply by modifying the file's DEFINE in the DF\$PRO.\$PFI.AN SLI member.

Moreover, about 80 percent of the VA Pac activity use the data stored at the beginning of the AR file, in the case of normal operations carried out by a development team. Therefore, the allocation of the AR file on several volumes does not in itself provide access optimization.

In order to take advantage of this multi-volume distribution, a standard procedure, called Storage Optimization of Multi-Volume Data (STOP) is provided. It allows for a wide distribution of the most frequently used data within the whole file.

The STOP procedure, combined with the DEFINE of the AR file (DF\$PRO.\$PFI.AR SLI member) on several volumes, must therefore be used before restoration of the database.

(For a description of the STOP procedure and details concerning data distribution parameterization, see the Batch Procedures: Administrator's Guide.)

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3.7.2. VISUALAGE PACBASE STRUCTURE UNDER CICS

VISUALAGE PACBASE STRUCTURE UNDER CICS

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

- Programs that can update the database,
- Programs that can only read the database.

There may be several programs which correspond to one VA Pac transaction:

The first loaded program, called a 'monitor', sends control through XCTL to the program able to process the type of line displayed on the screen.

This program executes the following instructions:

- . Screen read (RECEIVE).
- . If an update is detected:
 - Enqueue execution on a character string specific to the update database,
 - Read update of the first record on the AR file,
 - Rewrite of this record,
 - Loop on requested updates, which may contain per updated line:
 - . Several positionings or sequential reads on the AN file (STARTBR, RESETBR, or READNEXT),
 - . Several simple reads on the AR file (READ),
 - . One or two write commands on the AR file (WRITE or READ UPDATE, REWRITE),
 - . Several write commands on the AN file (WRITE or READ UPDATE, REWRITE),
 - . A write command on the AJ file (WRITE),
 - READ UPDATE of first record in the AR file,
 - REWRITE of this record,
 - DEQUEUE execution corresponding to the ENQUEUE.

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- . If the CHOICE field is entered: LINK to the CHOICE field decoding program.
- . If the CHOICE is valid: XCTL on the corresponding program.
- . Display step broken down as follows:
 - Several positionings or sequential reads on the AN file (STARTBR, RESETBR, or READNEXT),
 - Several simple reads on the AR file (READ).
 - . SEND (send screen).
 - . RETURN TRANSID (end of transaction).

NOTES

ENQUEUE/DEQUEUE operates in such a way that updates are serialized.

The program structure is such that, at a given time, only one BROWSE or READ UPDATE is active on the AN file; only one string is used by a transaction during a time lapse greater than one input/output.

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3.7.3. RESOURCES REQUIRED UNDER CICS

RESOURCES REQUIRED UNDER CICS

In order to improve the VA Pac system efficiency under CICS, two objectives should be pursued:

- Reduce program loading time,
- Make VSAM buffer management more efficient.

1. Program management

The first solution is fairly easy to implement: it requires a frequency survey on program runs. As a result, the programs that are most often used are said to be resident in the CICS partition (RESIDENT(YES) in CSD).

Example

Here are the programs most commonly used by the VA Pac system:

xxR000	Monitor
xxR100	CHOICE field decoding
xxR200	Format validation
xxQ300 xxN300	Update of segment -CE lines
xxQT00 xxNT00	Update of text -D lines
xxQP00 xxNP00	Update of -P lines
xxQI00 xxNI00	Update of dialogue -CE lines
xxQI01 xxNI01	-
xxQI02 xxNI02	-
xxQH20 xxNH20	Update of dialogue -CS lines.

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2. Buffer management

Three parameters associated with the AN and AR files must be entered in CSD: STRINGS, DATABUFFERS, and INDEXBUFFERS.

- STRINGS:

It specifies the number of STRINGS or requests which can be executed in parallel by VSAM on the same field: usually, a STRING is used during an input/output on disk.

Certain commands, however, do not follow this rule:

READ UPDATE and STARTBR or RESETBR reserve a STRING up to the REWRITE or UNLOCK and ENDBR commands, respectively.

- DATABUFFERS:

It specifies the number of DATA buffers to be allocated by VSAM when the file is opened. A minimum of two buffers is required: one for the read of control interval DATA, one for the control interval 'split'.

Default: DATABUFFERS = STRINGS + 1

- INDEXBUFFERS:

It specifies the number of INDEX buffers to be allocated by VSAM when the file is opened. The minimum number of buffers per request is one. It is preferable, however, to increase this number because for a file with three INDEX levels, three EXCP's are required to point to the searched CI DATA for each on-line request.

It is recommended to allocate:

AT LEAST: one buffer per INDEX level, plus one buffer per STRING (STRING value).

NO MORE THAN: one buffer per CI of INDEX SET, plus one buffer per STRING.

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Conclusion

A sufficient number of buffers should be provided for, according to the number of STRINGS.

However, too many buffers may lead to an excessive pagination, and therefore EXCP's.

Below is a chart of optimized values for the different parameters, according to the number of STRINGS:

! NUMBER !		AN FILE			AR FILE !		
! OF !-----		!-----!			!-----!		
! STRINGS !		STRINGS !	INDEX !	DATA !	STRINGS !	DATA !	!-----!
!-----!		!-----!	BUFFERS !	BUFFERS !	!-----!	BUFFERS !	!-----!
! 1 !	1 !	1 !	4 !	4 !	1 !	2 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!
! 5 !	5 !	5 !	8 !	7 !	5 !	6 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!
! 10 !	10 !	10 !	13 !	11 !	10 !	11 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!
! 20 !	20 !	20 !	23 !	21 !	20 !	21 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!
! 30 !	30 !	30 !	33 !	31 !	30 !	31 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!
! 40 !	40 !	40 !	43 !	41 !	40 !	41 !	!
!-----!	-----!	-----!	-----!	-----!	-----!	-----!	-----!

The remaining question is how to evaluate the number of concurrent requests at a given time.

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3.7.4. EVALUATION OF THE NUMBER OF REQUESTS UNDER CICS

EVALUATION OF THE NUMBER OF REQUESTS UNDER CICS

If the number of requests is estimated by multiplying the number of strings necessary for a transaction by the maximum number of users, the resulting number of buffers would be too large, which would thus imply excessive memory requirements.

A preferable method is the probability approach, taking into account simple hypotheses which are relevant in analyzing how resources are managed under CICS.

Request number evaluation method

Transaction execution requests are entered according to the "POISSON distribution" law and the transaction's duration is a constant. Taking into account this duration and the frequency of requests, the number 'n' is determined so that the probability of having more than n transactions at a given time is less than 1/100,000.

The average duration of a transaction at a specific site has to be calculated, as well as the average frequency of requests. The following chart aids in finding this number 'n' based on these parameters.

This number equals the number of STRINGS indicated in the preceding chart, which allows the STRINGS, DATABUFFERS and/or INDEXBUFFERS parameters for the AN and AR files.

Time is expressed in seconds, average frequencies vary from 0.1 to 2, the duration of requests therefore varies from 10 to 0.5 seconds.

Refer to the table on the following page.

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EVALUATION OF THE NUMBER OF REQUESTS UNDER CICS

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```
-----
!DURAT.!0.1 0.5 0.9 1.3 1.7 2.1 2.5 2.9 3.3 3.7 4.1 4.5 4.9!
!-----!
!FREQU.!
!-----!
! 0.1 ! 2   3   4   4   5   5   5   5   6   6   6   6   6   6 !
! 0.2 ! 3   4   5   5   6   6   7   7   7   8   8   8   8   8 !
! 0.3 ! 3   4   5   6   7   7   8   8   9   9   9   9   10  10 !
! 0.4 ! 3   5   6   7   7   8   9   9   10  10  11  11  11  12 !
! 0.5 ! 3   5   6   7   8   9   9   10  11  11  12  12  12  13 !
! 0.6 ! 3   5   7   8   9   9   10  11  12  12  13  13  14  14 !
! 0.7 ! 3   6   7   8   9   10  11  12  13  13  14  15  15  15 !
! 0.8 ! 4   6   7   9   10  11  12  13  13  14  15  16  16  16 !
! 0.9 ! 4   6   8   9   10  11  12  13  14  15  16  17  17  17 !
! 1.0 ! 4   7   8   10  11  12  13  14  15  16  17  18  18  19 !
! 1.1 ! 4   7   9   10  11  13  14  15  16  17  18  19  20  20 !
! 1.2 ! 4   7   9   10  12  13  14  15  16  18  19  20  21  21 !
! 1.3 ! 4   7   9   11  12  14  15  16  17  18  19  20  22  22 !
! 1.4 ! 4   7   9   11  13  14  15  17  18  19  20  21  22  22 !
! 1.5 ! 4   8   10  12  13  15  16  17  19  20  21  22  23  23 !
! 1.6 ! 4   8   10  12  14  15  17  18  19  21  22  23  24  24 !
! 1.7 ! 5   8   10  12  14  16  17  19  20  21  23  24  25  25 !
! 1.8 ! 5   8   11  13  14  16  18  19  21  22  23  25  26  26 !
! 1.9 ! 5   8   11  13  15  17  18  20  21  23  24  26  27  27 !
! 2.0 ! 5   9   11  13  15  17  19  20  22  24  25  26  28 !
-----
```

3.8. ABNORMAL EXECUTION

ABNORMAL EXECUTIONS

A batch program execution may terminate abnormally. For example, input-output errors on the system files or on the database cause a forced abnormal end with a USER ABEND, accompanied by a message on the SYSLST file.

When an ABEND occurs, the user must first find this message. It is displayed in the following manner:

```
PROGR : pppppp INPUT-OUTPUT ERROR : FILE ff OP: oo
STATUS : nn
END OF RUN DUE TO PROVOKED ABEND
```

In most cases, examining the status and type of operation allows the user to find the cause of the abnormal end.

The following table contains the most common values for the status (STATUS) and type of operation (OP).

! nn ! STATUS	! ! oo !	OPERATION	!
! 21 ! SEQUENCE ERROR	! ! !	!	!
! 22 ! DUPLICATE KEY	! ! W !	WRITE	!
! 23 ! NO RECORD FOUND	! ! RW !	REWRITE	!
! 24 ! BOUNDARY VIOLATION (KSDS-RRDS)	! ! RU !	READ UPD	!
! 30 ! SYSTEM ERROR	! ! OP !	OPEN	!
! 30 ! SYSTEM ERROR	! ! CL !	CLOSE	!
! 34 ! BOUNDARY VIOLATION(SEQUENTIAL)	! ! D !	DELETE	!
! 92 ! LOGIC ERROR (FOR EXAMPLE,	! ! R !	READ	!
! ! OPENING AN ALREADY OPEN FILE)	! ! P !	START	!
! 93 ! FILE STILL OPEN UNDER CICS	! ! RN !	READ NEXT	!
! 95 ! INVALID OR INCOMPLETE FILE	! ! !	!	!
! ! INFORMATION	! ! !	!	!

If this message is absent and the type of ABEND generated directly signals a problem in the PACBASE system programs, it will be necessary to contact the PACBASE technical team at IBM. Be sure to KEEP ALL LISTINGS that may be necessary to analyze the problem, for example:

- The report of the execution with // OPTION LOG,PARTDUMP
- The list of installed programs and files (Job 9INS)
- etc.

PROCEDURE RESUMING AFTER AN ABEND

If a procedure terminates for one of the following reasons:

- output file too small,
- partition too small to open a file,
- file open in another partition, or
- any error not specifically associated with processing programs or processed data,

after correcting the error, it is possible to restart the procedure from the point where it terminated.

This option saves processing time, but must be executed with care.

The JCL line '/* GOTO JCLSTxx' must be activated, without change of location, with the label of the step which produced the abend.

The following cautions must be observed:

- If the physical names of the temporary files are prefixed by the '%' character, the retrieval job must be submitted in the same partition as the initial job; or, the names of the temporary files must be substituted in the retrieval job, with the deletion of the '%' prefix and the addition of a suffix '.BG', '.F2', '.F3', etc. depending on whether the initial job was submitted by BG, F2, F3, etc.
- If the abend is due to an output file that is too small, make sure that a redefinition of the file won't affect the temporary files in the queue.

These files can be determined by referring to the order of execution in the description of the procedure and locating:

- the input files of the step where the abend occurred, and
- the input files of one of the subsequent steps, if they are not output from any of the steps to be resubmitted.

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4.1. PRELIMINARY NOTES

PRELIMINARY NOTES

NEW FEATURES AND MODIFICATIONS

To facilitate the installation of this Release of VA PAC from Release 7.3, 8.0 or 8.0.1, the list below highlights the major new features and modifications. These fall into two major categories:

1. Preparation: JCL organization
2. Environment: Files modified, added, etc.

1. PREPARATION

- The VSAM temporary files use the 'NOALLOCATION' option, which permits streamlining the JCL and putting the DELETE/DEFINEs at the beginning of the procedure.
- Sending a return code to the supervisor via the COBOL programs makes it possible to manage the return code through the JCL and to merge procedures that executed separately before (PARM and PAR2, MLIB and MLIS, etc.)
- Using the POWER procedures (SLI members) provides for: 1) no redundant IDCAMS request cards for DEFINE CLUSTERs on database files that are now centralized in SLI members; and 2) cataloging cumbersome procedures, such as GPRT. A procedure called 'beginning of standard job' has been put into all JCL in order to allow for storage of site-specific standards in one place.
- The VSE procedures are used to define work space (primarily when sorting and, in rare cases, when VSAM work files are not adapted). Implementing VSAM SPACE MANAGEMENT for sortwork files no longer poses any problems.
- To facilitate back-up file management and to select the number of generations reserved for each back-up, the IDCAMS request cards that execute the generation rotation are centralized in SLI members.

2. ENVIRONMENT

- Two user files are new: PA (on-line PAF work file) and GS (PAF-PDM Extraction Master Paths file).
- There is a new 'envelop' for the work file, through a batch partition (batch PAF work file).
- Three system files are new: SS, SF, and SP (generation skeleton files).
- The JCL for submitting POWER must be ready in order to be taken into account with the SLI procedures.
- The VSE variant (system releases prior to VSE/SP 2) is no longer supported.
- The initial parameterization (MM1JCL) makes it possible to distribute the contents of the index and data components, the user and system files, the back-up and operations files, and the permanent and temporary files onto several different disk volumes.

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4.2. INTRODUCTION

INTRODUCTION

The installation procedure is broken down into three main stages:

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

The installation process requires a special tape (or cartridge) and is described in this chapter.

You should be familiar with the VA Pac System's characteristics, which are fully described in this manual, in order to properly prepare an environment for the installation procedure (disk space, CICS options, codification, etc.).

Once the environment is ready, you can proceed with the installation.

PREPARATION

Unload the initial JCL from the tape, and execute it:

- . Perform a backup of the installation tape,
- . Copy the module for processing the complete JCL,
- . Restore the complete VA Pac installation and operation JCL.

INSTALLATION

See Subchapter 'Installation Process'.

TESTS

- . On-line procedure tests,
- . Batch procedure tests.

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4.3. INSTALLATION TAPE

INSTALLATION TAPE

The installation tape (6,250 BPI, no label) includes the following files:

```
----- !RANK!FORMAT!LRECL! BLKSZ ! CONTENTS !
----- ! 1 !Fixed ! 80 ! 3440 ! Initial preparation JCL !
! ! ! ! !
! 2 !Fixed ! 80 ! 80 ! Load-module of the MM1JCL !
! ! ! ! installation utility !
! ! ! ! !
! 3 !Fixed ! 80 ! 3440 ! Complete installation and !
! ! ! ! operation JCL !
! ! ! ! !
! 4 !Fixed !3204 ! 32040 ! Batch skeleton file !
! ! ! ! !
! 5 !Fixed !4605 ! 32235 ! OLSD and DBD skeleton file !
! ! ! ! !
! 6 !Fixed !4605 ! 32235 ! COBOL generator skeleton file !
! ! ! ! !
! 7 !Fixed ! 80 ! 32720 ! PACBASE error messages !
! ! ! ! !
! 8 ! Var. ! 155 ! 32760 ! Test database backup !
! ! ! ! !
! 9 !Fixed !4605 ! 23025 ! PAF-PDM Extension generation !
! ! ! ! skeleton file !
! ! ! ! !
! 10 !Fixed ! 119 ! 11900 ! PAF-PDM Extension generation !
! ! ! ! skeleton file !
! ! ! ! !
! 11 !Fixed !4605 ! 32235 ! C/S skeleton file !
! ! ! ! !
! 12 !Fixed !3204 ! 32040 ! Batch skeleton file (French) !
! ! ! ! !
! 13 !Fixed !4605 ! 32235 ! OLSD and DBD skeleton file (F) !
! ! ! ! !
! 14 !Fixed !4605 ! 32235 ! COBOL skeleton file (French) !
! ! ! ! !
! 15 ! Var. ! 155 ! 32760 ! Test database (French version) !
-----
```

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```
-----  
!RANK !FORMAT !LRECL !BLKSIZE ! CONTENTS !  
-----  
! 16 !Fixed ! 80 ! 32720 ! Initial AEO, bilingual version !  
! 17 !Fixed ! 4605 ! 32235 ! C/S skeleton file (French) !  
! 18 !Fixed.! 80 ! 32720 ! SQL program source !  
! 19 !Fixed.! 117 ! 7020 ! Visualage Dictionary !  
! 20 !Fixed.! 117 ! 7020 ! TeamConnection Dictionary !  
! 21 !Undef.! ! ----- ! Empty file (Backup header) !  
! 22 !Undef.! ! 17000 ! Backup file-id !  
! 23 !Undef.! ! 17000 ! Backup file !  
! 24 !Undef.! ! ----- ! Empty file (Backup trailer) !  
! 25 !Fixed ! 80 ! 80 ! End-of-backup record !  
-----
```

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4.4. UNLOADING OF INITIAL JCL

UNLOADING OF INITIAL JCL

The first file on the installation tape, which contains the initial JCL, must be unloaded onto the on-site editor (LRECL 80 BLKSIZE 80).

INSTALLATION**UNLOADING OF INITIAL JCL**

```
* $$ JOB JNM=$JOB,CLASS=$CLASS,DISP=$DISP,USER='$USER'
* $$ LST CLASS=$PCLO,DISP=$PDIO
* $$ PUN CLASS=$PCLP,DISP=$PDIP,DEST=$DEST
// JOB $JOB      UNLOAD PACBASE INITIAL JCL
// ASSGN SYS004,TAPE
// PAUSE MOUNT PACBASE INSTALLATION TAPE ON SYS004
// UPSI 1
// EXEC DITTO
$$DITTO REW OUTPUT=SYS004
$$DITTO TC INPUT=SYS004,NFILES=1
$$DITTO RUN OUTPUT=SYS004
$$DITTO EOJ
/*
/&
* $$ EOJ
```

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4.5. INITIAL JCL

INITIAL JCL

The function of the initial JCL is to generate the installation and operation JCL of the System.

This initial JCL is a parameterized skeleton which allows customization; it is processed by the MM1JCL utility program, which generates JCL that will be adapted according to the parameters specified by the user.

The unloading and execution of the MM1JCL utility is contained in the initial JCL, which includes three jobs:

.JOB0 Copies the installation tape provided by IBM onto a user tape; the latter is considered as the System back-up and must be used for the actual installation.

.JOB1 Unloads the MM1JCL and PACDEB utilities by LNKEDT. (through the RESTORE and LIBR functions).

.JOB2 Executes the MM1JCL utility, which creates the actual installation and operation JCL.

The MM1JCL output must be kept, since it may be used for reinstallations.

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```
/*
-----  

/* I N S T A L L A T I O N   O F   I N I T I A L       J C L  

/* -----  

/*  

/* THIS JCL CONTAINS THREE JOBS :  

/*     - COPY OF THE REFERENCE TAPE ON AN INSTALLATION  

/*     TAPE,  

/*     - RECEPTION OF THE INSTALLATION UTILITY IN A USER  

/*     LIBRARY,  

/*     - RECEPTION OF INSTALLATION AND OPERATION  

/*     JCL UNDER TEXT EDITOR.  

/*  

/* THE VARIABLE ELEMENTS USED IN THESE THREE JOBS ARE :  

/*     - A VSAM CATALOG FOR WORK FILES,  

/*     - A LIBRARY FOR THE UTILITY,  

/*     - THE POWER SPOOL FOR THE OUTPUT PUNCHED JCL,  

/*     - A USER CODE FOR POWER,  

/*     - TWO TAPE NAMES,  

/*     - TWO TAPE UNITS ADRESSES.  

/*  

/* ----- REQUIRED SUBSTITUTIONS -----  

/*  

/* %USER = JOB IDENTIFIER (4 CHAR)  

/* %ACCT = POWER ACCOUNTING INFORMATION (USER='%ACCT')  

/*  

/* %CATN = IDENTIFICATION OF VSAM CATALOG  

/* %CATV = VSAM SPACE VOLUME SERIAL NUMBER  

/*  

/* %LIBN = IDENTIFICATION OF A LIBRARY FOR THE UTILITY  

/* %LIB = LIB FOR UTILITY  

/* %SLIB = SUBLIB FOR UTILITY  

/*  

/* %PLST = PARAMETERS * $$ LST  

/* %PPCH = PARAMETERS * $$ PUN FOR RECEPTION UNDER TEXT EDITOR  

/*  

/* %INST = VOLUME SERIAL NUMBER OF REFERENCE TAPE  

/* %BCKP = VOLUME SERIAL NUMBER OF BACK-UP TAPE  

/*  

/* %TAP1 = FIRST TAPE DRIVE ADDRESS  

/* %TAP2 = SECOND TAPE DRIVE ADDRESS
```

```
/* *****  

*      COPY OF THE INSTALLATION TAPE  

/* *****  

* $$ JOB JNM=%USERJOB0,CLASS=0,DISP=D,USER='%ACCT'  

* $$ LST %PLST  

// JOB JOB0      COPY OF THE INSTALLATION TAPE  

// PAUSE MOUNT : %INST,%TAP1,READ    %BCKP,%TAP2,WRITE  

// UPSI 1  

// EXEC DITTO  

$$DITTO REW OUTPUT=%TAP1  

$$DITTO REW OUTPUT=%TAP2  

$$DITTO TT INPUT=%TAP1,OUTPUT=%TAP2,NFILES=24  

$$DITTO RUN OUTPUT=%TAP1  

$$DITTO EOJ  

/*  

/&  

* $$ EOJ
```

```
* $$ JOB JNM=%USERJOB1,CLASS=0,DISP=D,USER='%ACCT'  

* $$ LST %PLST  

// JOB JOB1      COPY OF THE UTILITY  

/* *****  

* *      LOADING OF "MM1JCL" UTILITY  

/* *      IN THE PREDEFINED USER LIBRARY  

/* *****  

// PAUSE MOUNT THE INSTALLATION TAPE %BCKP ON %TAP2
```

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```

MTC REW,%TAP2
MTC FSF,%TAP2,1
// ASSGN SYSIPT,%TAP2
// DLBL %LIB,'%LIBN',,VSAM
// LIBDEF PHASE,CATALOG=%LIB.%SLIB
// OPTION CATAL
INCLUDE
// EXEC LNKEDT
/*
/&
* $$ EOJ

* $$ JOB JNM=%USERJOB2,CLASS=0,DISP=D,USER=' %ACCT'
* $$ LST %PLST
* $$ PUN %PPCH
// JOB JOB2      CREATION OF INSTALLATION JCL
/* *****----- CREATION OF THE INSTALLATION JCL BY THE MM1JCL UTILITY
/* ----- CREATION OF THE INSTALLATION JCL BY THE MM1JCL UTILITY
/* *****----- CREATION OF THE INSTALLATION JCL BY THE MM1JCL UTILITY
/*
/* MODIFY THE PROVIDED LIST OF COMMANDS SPECIFYING THE INSTAL-
/* LATION VARIANTS (IF ANY) BY REQUESTING, IF NECESSARY, THE
/* SELECTION OF PORTIONS OF THE INSTALLATION JCL (JCL MODULES):
/* ASSIGN THE APPROPRIATE VALUES TO THE INSTALLATION PARAMETERS
/* AND, IF NEEDED, SPECIFY THE LINES TO BE ADDED AT THE BEGIN-
/* NING AND THE END OF THE MODULES.
/*
/* *****----- STEP 1 ----- IDCAMS DEFINE
// DLBL IJSYSUC,'%CATN',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    DEL      (PTR.IMPL.PAC7GC) CL
    DEF CL   (NAME (PTR.IMPL.PAC7GC) -
                NAL RUS NIXD CISZ(4096) -
                RECFM(FB(104)) -
                VOL (%CATV) RECSZ (3432 3432) TRK (10 5) )
    DEL      (PTR.IMPL.PAC7GI) CL
    DEF CL   (NAME (PTR.IMPL.PAC7GI) -
                NAL RUS NIXD CISZ(4096) -
                RECFM(FB(104)) -
                VOL (%CATV) RECSZ (3432 3432) TRK (50 10) )
    DEL      (PTR.IMPL.PAC7LA) CL
    DEF CL   (NAME (PTR.IMPL.PAC7LA) -
                NAL RUS NIXD CISZ(4096) -
                RECFM(FB(137)) -
                VOL (%CATV) RECSZ (1370 1370) TRK (5 1) )
    DEL      (PTR.IMPL.PAC7LI) CL
    DEF CL   (NAME (PTR.IMPL.PAC7LI) -
                NAL RUS NIXD CISZ(4096) -
                RECFM(FB(137)) -
                VOL (%CATV) RECSZ (1370 1370) TRK (5 1) )
/*
* --- STEP 2 --- MM1JCL
// ASSGN SYS004,%TAP2
// PAUSE MOUNT THE INSTALLATION TAPE %BCKP ON %TAP2
// MTC REW,SYS004
// MTC FSF,SYS004,2
// ASSGN SYS005,SYSLST
// ASSGN SYS010,SYSPCH
// ASSGN SYS011,SYSPCH
// DLBL IJSYSUC,'%CATN',,VSAM
// DLBL %LIB,'%LIBN',,VSAM
// LIBDEF PHASE,SEARCH=%LIB.%SLIB
// DLBL WK1,'PTR.IMPL.PAC7GC',,VSAM
// DLBL WK2,'PTR.IMPL.PAC7GI',,VSAM
// DLBL LBI,'PTR.IMPL.PAC7LA',,VSAM
// DLBL LBO,'PTR.IMPL.PAC7LI',,VSAM
/* THE GENERATED JCL IS PRODUCED AS PUNCHED OUTPUT
/* THIS JCL IS TO BE RECEIVED UNDER A TEXT EDITOR
// EXEC MM1JCL,SIZE=AUTO

```

*

A

```
==IDENC CLIENT 'ANY CLIENT', SITE 'PROTOTYPE JCL'
==SELV MER           .WORKSTATION: MERISE METHODOLOGY
==SELV YSM           .WORKSTATION: YSM   METHODOLOGY
==SELV SSA           .WORKSTATION: SSADM METHODOLOGY
==SELV IFW           .WORKSTATION: IFW   METHODOLOGY
==SELV OMT           .WORKSTATION: OMT   METHODOLOGY
==SELV PEI           .PACBASE PEI OPTION
==SELV PACTR         .PACBASE PAC/TRANSFER
==SELV PUF           .PACBASE PUFTP
==SELV SQL           .PACBASE SQL
==SELV S2K           .PACBASE Pac/Impact
==SELV TAB           .PACBASE TABLES
==SELV DSM           .PACBASE DSMS
==SELV TEAM          .PACBASE TEAMCONNECTION BRIDGE
==SELV VISP          .PACBASE VISUALAGE SMALLTALK BRIDGE
==SELV ROLD          .RETRIEVAL: OLDER PACBASE
==PRM PCJ=0          .EXECUTION CLASS      (JOB CARD)
==PRM PCL=X          .OUTPUT CLASS        (LST CARD)
==PRM PCP=X          .OUTPUT CLASS        (PUN CARD)
==PRM PDJ=D          .JOBS DISPOSITION    (JOB CARD)
==PRM PDL=H          .OUTPUT DISPOSITION  (LST CARD)
==PRM PDP=H          .OUTPUT DISPOSITION  (PUN CARD)
==PRM LST2=60C        .PRINTER 2 (POWER LST=--- PARAMETER)
==PRM LST3=60D        .PRINTER 3 (POWER LST=--- PARAMETER)
==PRM PRFJ=%USER     .JOB NAME PREFIXES  (4 CHARACTERS)
==PRM PUJ=%ACCT'    .USER PARAMETER      (JOB CARD)
==PRM PWJ=' '
==PRM PWL=',RBS=250' .POWER JOB CARD ADDITIONAL PARAMETERS
==PRM PWP=' '
==PRM GROUP='PACB'   .POWER LST CARD ADDITIONAL PARAMETERS
==PRM LIST='LCGI'    .POWER PUN CARD ADDITIONAL PARAMETERS
==PRM NLSR=1          .CICS/RDO: PACBASE RESOURCE GROUP NAME
==PRM PFI=25          .CICS/RDO: PACBASE RESOURCE LIST
==PRM PRO=PB          .LSR POOL NUMBER
==PRM PXU='PAC250.USR' .NUMBER OF THE PACBASE USER DATABASE
==PRM PXY='PAC250.SYS' .ROOT OF PACBASE SYSTEM (2 CHARACTERS)
==PRM TAPEI=%BCKP    .INDEX OF PACBASE USER FILES
==PRM TAP1=%TAP1     .INDEX OF PACBASE SYSTEM FILES
==PRM TAP2=%TAP2     .INSTALLATION TAPE NAME
==PRM VOLWK=%CATV   .TAPE DRIVE ADDRESS
==PRM VWORK=%CATV   .ALTERNATIVE TAPE DRIVE ADDRESS
==PRM XW=%WPAC       .TEMPORARY/DYNMA. FILES VOLUME
==PRM WKBG1='12875,400' .TEMPORARY FILES VOLUME
==PRM WKBG2='12475,400' .WORK FILES INDEX
==PRM WKBG3='12075,400' .WORK AREA 1/BG (400 TRACKS 3380)
==PRM WKF21='0,0'     .WORK AREA 2/BG
==PRM WKF22='0,0'     .WORK AREA 3/BG
==PRM WKF23='0,0'     .WORK AREA 1/F2 - OPTIONAL
==PRM WKF24='0,0'     .WORK AREA 2/F2 "
==PRM WKF25='0,0'     .WORK AREA 3/F2 "
==PRM WKF26='0,0'     .WORK AREA 1/F3 "
==PRM WKF27='0,0'     .WORK AREA 2/F3 "
==PRM WKF28='0,0'     .WORK AREA 3/F3 "
==PRM WKF29='0,0'     .WORK AREA 1/F4 "
==PRM WKF30='0,0'     .WORK AREA 2/F4 "
==PRM WKF31='0,0'     .WORK AREA 3/F4 "
==PRM WKF32='0,0'     .WORK AREA 1/F5 "
==PRM WKF33='0,0'     .WORK AREA 2/F5 "
==PRM WKF34='0,0'     .WORK AREA 3/F5 "
==PRM WKF35='0,0'     .WORK AREA 1/F6 "
==PRM WKF36='0,0'     .WORK AREA 2/F6 "
==PRM WKF37='0,0'     .WORK AREA 3/F6 "
==PRM WKF38='0,0'     .WORK AREA 1/F7 "
==PRM WKF39='0,0'     .WORK AREA 2/F7 "
==PRM WKF40='0,0'     .WORK AREA 3/F7 "
==PRM WKF41='0,0'     .WORK AREA 1/F8 "
==PRM WKF42='0,0'     .WORK AREA 2/F8 "
==PRM WKF43='0,0'     .WORK AREA 3/F8 "
==PRM WKF44='0,0'     .WORK AREA 1/F9 "
==PRM WKF45='0,0'     .WORK AREA 2/F9 "
==PRM WKF46='0,0'     .WORK AREA 3/F9 "
==PRM MODB=%LIBN'    .BATCH MODULES LIB PHYSICAL NAME
==PRM MODO=%LIBN'    .ONLINE MODULES LIB PHYSICAL NAME
==PRM SLIL=%LIBN'    .SLI MEMBERS LIB PHYSICAL NAME
```

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```
====PRM PRLB='%LIBN'          .VSE PROCEDURES LIB PHYSICAL NAME
====PRM LMODB='%LIB'           .LIB / MODULES BATCH
====PRM LMODO='%LIB'           .LIB / MODULES TP
====PRM LSLI='%LIB'            .LIB / SLI MEMBER
====PRM LPRLB='%LIB'           .LIB / VSE PROCEDURES
====PRM SMODB='.%SLIB'         .SUBLIB / BATCH MODULES
====PRM SMODO='.%SLIB'         .SUBLIB / ON-LINE MODULES
====PRM SLIS='.%SLIB'          .SUBLIB / SLI MEMBER
====PRM SLIT='PAC'             .TYPE / SLI MEMBER
====PRM SPRLB='.%SLIB'          .SUBLIB / VSE PROCEDURES
====PRM SORTWK='$$SORTWK'      .DEFN SORTWORK SPACE PROCEDURE NAME
====PRM VCAP='%CATN'           .VSAM CATALOG FOR PACEBASE FILES
====PRM OPT='LOG,NODUMP'        .'// OPTION' CARD PARAMETERS
====PRM RAJP=3000               .AJ PRIMARY ALLOCATION (RECORDS)
====PRM RAJS=3000               .AJ SECONDARY ALLOCATION (RECORDS)
====PRM RPCP=20000              .PC PRIMARY ALLOCATION (RECORDS)
====PRM RPCS=20000              .PC SECONDARY ALLOCATION (RECORDS)
====PRM VOLPSV=%CATV           .BACKUP/LOG FILES VOLUME
====PRM VOLPUD=%CATV           .USER FILES DATA COMPONENTS VOLUME
====PRM VOLPUX=%CATV           .USER FILES INDEX COMPONENTS VOLUME
====PRM VOLPYD=%CATV           .SYSTEM FILES DATA COMPONENTS VOLUME
====PRM VOLPYX=%CATV           .SYSTEM FILES INDEX COMPONENTS VOLUME
====PRM TRO=TA                 .ROOT OF PACTABLE SYSTEM (2 CHARACTERS)
====PRM TXU='TAB250'            .INDEX OF PACTABLE USER FILES
====PRM VOLTUX=%CATV           .VOLUME SERIAL OF TABLES INDEX FILES
====PRM VOLTUD=%CATV           .VOLUME SERIAL OF TABLES DATA FILES
====PRM VCAT='%CATN'            .VSAM CATALOG FOR PACTABLE
====PRM VCAD='%CATN'            .VSAM CATALOG FOR DSMS
====PRM DSMS=<>                .FILE NAME OF DSMS FILE (DC)
====PRM MODELF='PAC250.MODELF'   .SAM-ESDS FILE, FIXED MODEL
====PRM MODELV='PAC250.MODELV'   .SAM-ESDS FILE, VARIABLE MODEL
====BEGMOD
./ ADD NAME=$PRO$PFI$ZMODUL
//%USER$ZMODUL JOB %ACCT, 'VSE', CLASS=X, MSGCLASS=X, NOTIFY=%USER
/*XMIT A07POWER DLM=%
==ENDMOD
%%
/*
* --- STEP 3 --- IDCAMS DELETE
// DBL IJSYSUC,'%CATN',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    DEL    (PTR.IMPL.PAC7GC) CL
    DEL    (PTR.IMPL.PAC7GI) CL
    DEL    (PTR.IMPL.PAC7IA) CL
    DEL    (PTR.IMPL.PAC7LI) CL
/*
/&
* $$ EOJ
```

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4.6. COMPLETE JCL INSTALLATION

COMPLETE JCL INSTALLATION

The MM1JCL module reads the JCL skeleton file and outputs an adapted JCL. It uses commands which allow the user to:

- . Select portions of the JCL skeleton, which are called 'JCL modules',
- . Parameterize the skeleton JCL in order to obtain a JCL requiring a minimum of modifications to make it operational.
- . Select the installation variants in order to generate the JCL needed for specific processing based on site and installation conditions.
- . Add lines before and after the JCL modules in order to separate them.

This step can be executed as many times as necessary to generate a completely adequate JCL jobstream.

The MM1JCL provides a list of the newly created JCL by module taking into account all parameters and requested variants.

Once the JCL is created, it may be retrieved under a text editor. At this point, the actual installation procedure can begin.

It is advisable to create in the text editor library as many members as there are JCL modules, each module being a logical step in the installation procedure.

Adding the proper cards before and after the modules will automatically split up the JCL. (Refer to the examples in Subchapter "JCL MODULE SEPARATORS").

FILES USED BY MM1JCL

```

Input      : JCL skeleton          : SYS004 (tape)
              Utility requests    : SYS010 (reader)
Output     : Generated JCL        : SYS011 (punch)
              List of generated JCL : SYS005 (printer)
Work files : WK1 (300,000 bytes)
              LBI (Dummy)

```

MM1JCL INSTALLATION DEFAULT OPTIONS

- . Variants : All.
- . Parameters : No default values, indicated values are examples.
- . JCL modules: No selection, all modules are copied.

CODING OF MM1JCL COMMANDS

```

====SELL lll          .Selection of installation
                      language:
                      lll = ENG (English)
                      FRA (French)

====SELV vvvv         .Selection of variant
                      vvvv = variant code

====SELM mmmm1 mmmm2 ... .Selection of JCL modules
                      mmmm1 = name of JCL module
                      mmmm2 = name of JCL module
                      etc.
                      The absence of a ===SELM line
                      involves the selection of all
                      JCL modules.

====PRM  PPPP=pppp    .Parameter
                      PPPP = name of parameter
                      pppp = value of parameter

NOTE: On ===PRM or ===SELV lines, comments may be entered.
      They should be preceded by a period, and not exceed
      column 72.

====BEGMOD           Insertion of lines at beginning of module.
....1             )
....             ) Lines to be inserted before each module
....n            )

====ENDMOD           Insertion of lines at end of module.
....1             )
....             ) Lines to be inserted after each module
....n            )

```

4.7. INSTALLATION VARIANTS

<u>INSTALLATION VARIANTS</u>		
==SELV VVV	.Comments	
! VVV ! MEANING	! COMMENTS	!
! -----!	!	-----!
! !	!	!
! SQL ! SQL Relational DBD	! VA Pac function	!
! ! Installation of the SQL catalog	!	!
! ! update COBOL source	!	!
! !	!	!
! PEI ! Production Environment Interface	! VA Pac function	!
! ! PEI file installation and recognition in VA Pac	!	!
! !	!	!
! TAB ! Pactables	! VA Pac function	!
! ! Installation of the VA Pac -	!	!
! ! Pactables interface components	!	!
! !	!	!
! DSM ! DSMS	! VA Pac function	!
! ! Installation of the VA Pac -	!	!
! ! DSMS interface components	!	!
! !	!	!
! PACTR ! Pac/Transfer	! VA Pac function	!
! !	!	!
! PUF ! PUFTP	! VA Pac function	!
! !	!	!
! S2K ! Pac/Impact	! VA Pac function	!
! !	!	!
! VISP ! VisualAge Smalltalk-VA Pac	! VA Pac function	!
! !	!	!
! TEAM ! Teamconnection-VA Pac	! VA Pac function	!
! !	!	!
! -----!	-----!	-----!
! !	!	!
! ROLD ! Retrieval of 8.0.x, 1.2 or 1.6 databases	! Users of release! ! 8.0.x to 1.6	!
! !	!	!

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4.8. *OPTION: SQL INTERFACE (DB2)*

SQL INTERFACE INSTALLATION

Environment

DB2 is not supported in VSE. Therefore, only the SQL interface is available.

Description of the program

A program calls, via a LINK, a COBOL module which contains the SQL accesses:

- xxQS10 generates the update SQL and calls the update module: xxRS12.

Installation

The xxQS10 program is shipped as an executable module, and installed with PACBASE standard programs (job '\$prfj.2PHA' of the installation procedure).

The xxRS12 module is shipped as a COBOL source program, to be prepared and installed, and supported in DB2. To do this:

1. The source program must be installed using an editor, and the statements should be checked for consistency with the user's requirements (they should be customized if necessary).

This source program should be handled as any standard SQL program, i.e.:

- Preparation via a preprocessor, yielding:

.a COBOL source program,
.a DBRM program (same name as the COBOL source program)

- Compilation and LINK-EDIT on the COBOL source program, yielding an executable program (xxRS12).

2. The plan is built via the DBRM program (BIND operation).

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3. The RCT CICS table is updated with the VA Pac transaction code and the code of the plan built before.

NOTE:

Updates are performed via dynamic SQL statements.

COMPLEMENT: INSTALLATION OF THE SQL INTERACTIVE APPLICATION

Description of the programs

A program calls, via a LINK, a COBOL module containing the SQL statements. The module is called xxQL46. It generates the update SQL and calls the SQL update module: xxRS12.

Installation

The xxQL46 program is shipped as an executable module, and installed with the VA PAC standard programs (job '\$prfj.2PHA' of the installation procedure).

The xxRS12 module is shipped as a COBOL source program for preparation and installation.

4.9. JCL MODULES

JCL MODULES

TABLE OF INSTALLATION JCL MODULES

The JCL modules are identified by a four-character code. The installation modules are identified by a numeric prefix.

The MM1JCL utility command '====SELM' is used to select the modules to unload. All the JCL modules are selected by default.

```
====SELM aaaa bbbb cccc
+-----+-----+-----+
! CODE   ! CONTENTS           ! NATURE !
+-----+-----+-----+
!       ! *** INSTALLATION ***
! 1CSD  ! CSD source: CICS tables PCT, PPT  ! CICS SYS!
! 1PCT  ! Assembler source: transactions (PCT) ! CICS SYS!
! 1PPT  ! Assembler source: programs      (PPT) ! CICS SYS!
! 1FCT  ! Assembler source: files        (FCT)  ! CICS SYS!
! 1VSE  ! Catalogue of VSE procedures    ! VSE JCL !
! 1SLI  ! Catalogue of SLI members     ! VSE JCL !
! 1PWR  ! POWER JCL submission      ! VSE JCL !
!
! 2FIC  ! Definition of VSAM permanent files ! VSE JCL !
! 2GPR  ! Catalogue of GPRT JCL (SLI member) ! VSE JCL !
! 2PAC  ! Catalogue of PACX JCL (SLI member) ! VSE JCL !
! 2WGP  ! Definition of GPRT work files   ! VSE JCL !
! 2WPA  ! Definition of PACX work files   ! VSE JCL !
! 2PHA  ! Installation of executable modules ! VSE JCL !
!
! 3SYS  ! Initialization of system files   ! VSE JCL !
! 3USR  ! Initialization of user files    ! VSE JCL !
!
! PJ16  ! Retrieval of archive journal 8.0.2 -> ! VSE JCL !
! PP16  ! Retrieval of PEI environment 8.0.2 -> ! VSE JCL !
! RPPG  ! Retrieval of generation-print commands ! VSE JCL !
! PC80  ! Retrieval of database backup 8.0, 8.01 ! VSE JCL !
! PE80  ! Retrieval of user parameters 8.0, 8.01 ! VSE JCL !
! PJ80  ! Retrieval of archive journal 8.0, 8.01 ! VSE JCL !
!
+-----+-----+-----+
```

TABLE OF INSTALLATION JCL MODULES (CONT.)

! CODE	! CONTENTS	! NATURE !
! 5TPC	! Installation of PACBASE test database	! VSE JCL !
! 6JCI	! CICS JCL submission	! VSE JCL !
! 9INS	! List of installed programs and files	! VSE JCL !
! 9TSG	! Database management tests	! SYSIN !
! 9TSE	! Tests for extraction utilities	! SYSIN !
! 9TSU	! On-line system tests	! text !
! 9DSG	! User entity transactions for the WorkStation, with variant: ! MER = Merise methodology ! SSA = SSADM methodology ! YSM = YSM methodology ! IFW = IFW methodology ! OMT = OMT methodology	! SYSIN !
! 9DSP	! Parameter setting for PACDESIGN, with variant: ! MER = Merise methodology ! SSA = SSADM methodology ! YSM = YSM methodology ! IFW = IFW methodology ! OMT = OMT methodology	! SYSIN !
! 9INC	! Example of optional control cards	! VSE JCL !
! 9PAF	! PAF dictionary source	! SYSIN !
! 9PQU	! Quality rules source	! SYSIN !
! 9PQR	! Compiled quality rules	! file !
! 9XPD	! User entity source (PAF-PDM extension)	! SYSIN !

TABLE OF OPERATION JCL MODULES

! CODE	! CONTENTS	!
! ACTI	! Journal statistics utility	!
! ARCH	! Journal archiving	!
! CPSN	! Sub-network comparison	!
! CRYP	! Encryption-decryption of passwords	!
! CSES	! Compression of session numbers	!
! DCOB	! Documented COBOL printing	!
! EMLD	! Load of user-defined error messages	!
! EMSN	! Extraction for sub-network merge	!
! EMUP	! Updating of user-defined error messages	!
! ESES	! Session number extraction	!
! GETA	! Generation of table descriptions	!
! GETD	! Generation of table descriptions	!
! GETI	! Table initialization	!
! GET0	! Table initialization	!
! GET1	! Generation of table description	!
! GET2	! Generation of table description	!
! GPRT	! Generation-print	!
! GRPE	! Transaction generation for database reorganization	!
! HIPE	! Automatic freeze	!
! IANA	! Impact analysis	!
! IGRA	! Group zone breakdown	!
! INFO	! Initialization FO	!
! INFP	! Initialization FP	!
! INFQ	! Initialization FQ	!
! INPE	! Back-up initialization	!
! IPEP	! Edition of search criteria	!
! IPFQ	! Edition of FQ file	!
! IPIA	! Edition of the results	!
! ISEP	! Selection of input points	!
! ISOS	! Selection of chains, operators	!
! LOAE	! User parameter restoration	!
! LVBL	! Replacement of low-values with blanks	!
! MESN	! Sub-network merge	!
! MLIB	! Library management	!
! PACX	! Extractor	!
! PAFX	! All-purpose user extractor	!
! PARM	! User parameters updating	!
! PQCA	! PACBENCH QUALITY CONTROL - Analysis	!
! PQCE	! PACBENCH QUALITY CONTROL - Extraction	!

TABLE OF OPERATION JCL MODULES (CONT.)

! CODE	! CONTENTS	!
! PRGS	! Master file edition	!
! PRPE	! PEI environment printouts	!
! REAG	! Reorganization of generation-print requests	!
! REOR	! Reorganization of the database	!
! REST	! Restoration of the database	!
! RESY	! Database system restoration via system util.	!
! RMEN	! Entity rename/move	!
! RMTD	! Post-migration restoration of TD	!
! RSPE	! PEI file restoration	!
! RTLO	! Retrieval of locked entities	!
! SADM	! Consistency check on SSADM entities	!
! SASN	! Sub-network backup	!
! SASY	! Logical database backup	!
! SAVE	! Database backup	!
! SIPE	! PEI simulation	!
! SMTD	! TD backup for migration	!
! STOP	! Storage optimization of data	!
! SVAG	! Generation-print requests backup	!
! SVPE	! PEI file backup	!
! TCCI	! TeamConnection Consistency check	!
! TCGP	! TeamConnection Parameters extension	!
! TCLS	! TeamConnection database update	!
! TRDU	! Production of DSMS transactions	!
! TRJC	! Compression of the journal file	!
! TRPF	! Generation of transfert transactions	!
! TRRP	! Extraction of the journal	!
! TRUP	! Updating parameters	!
! UPDP	! PACBASE database updating from PAF tables	!
! UPDT	! PACBASE database updating	!
! UXSR	! Extraction for sub-network updating	!
! VDWN	! Downloading VA Pac-VA Smalltalk	!
! VINS	! Updating C.G.I. user entities	!
! VPUR	! Dumping VisualAge Pacbase entities	!
! VUP1	! Uploading VisualAge Pacbase codes	!
! VUP2	! Uploading VisualAge Pacbase transactions	!
! XPAF	! Extraction master path validation	!
! XPDM	! Master outline validation	!
! YSMC	! Consistency check on YSM entities	!

TABLE OF SOURCE MODULES FOR CROSS GENERATORS:

! CODE	! CONTENTS	!
! Z980	! Contains the following modules:	!
!	!	!
! ZARCVS	! VS COBOL MVS/CICS, VS COBOL VSE/CICS	!
! ZARCII	! COBOL II MVS/CICS	!
! 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	!
! SCRCODIF	! Microfocus sub-program	!
! SCRIOPAR	! Microfocus sub-program	!
! SCRPEINT	! Microfocus sub-program	!
! SCRSAISI	! Microfocus sub-program	!
! ZARMFO	! VisualAge Pacbase-reserved	!
! SCRMFO	! VisualAge Pacbase-reserved	!

4.10. JCL PARAMETERS

JCL PARAMETERS

NOTE: If a parameter's value includes special character(s), this value must be entered between quotes: (Example: '1000,600').

POWER CARD PARAMETERS

! CODE	! MEANING	!
\$ JOB card	!	
\$ JOB card	!	
\$ JOB card	!	
\$ JOB card !	! (Ex: PWJ = ',NTFY=USER1')	!
\$ LST cards	!	
\$ LST cards	!	
\$ LST card !	! (Ex: PWL = ',RBS=100,DEST=RMTNODE')	!
\$ PUN cards	!	
\$ PUN card !	! (for retrieval under the editor)	!
\$ PUN card !	! (for retrieval under the editor)	!
\$ PUN card !	! (for retrieval under the editor)	!
\$ LST card !		
\$ LST card !		

PARAMETERIZATION OF VSAM FILE NAMES

All PACBASE files (except work files and internal sort files) are VSAM files whose physical names are parameterized in the following format:

.PXU.PROFFff	: VA Pacbase User Files
.PXY.PROPROff	: VA Pacbase System Files
.PXU.SEQ.PROPF.OLDff	: Back-up Files: (-1) Generation
.PXU.SEQ.PROPF.ff	: (0) Generation
.PXU.SEQ.PROPF.NEWff	: (+1) Generation
.XW.WPROC.ff	: Work Files
.PXU.RPROC.ff	: Procedure Results Files
.TXU.TRO0ff	: VA Pactables Files

+-----+-----+-----+	
! CODE ! MEANING	!
+-----+-----+-----+	
! !	!
! PXU ! Index of VA Pacbase user files	!
! PXY ! Index of VA Pacbase system files	!
! PRO ! Root of VA Pacbase system	!
! ! (2 characters other than 99)	!
! PFI ! Code of VA Pacbase Database	!
! ! (2 characters other than 99)	!
! XW ! Index of work file names	!
! ! (must be prefixed by '%' to allow simultaneous	!
! execution of procedures in two or more parti-	!
! tions: VSAM concatenates the partition's ID	!
! ! with the physical names of files having this	!
! character in position 1.)	!
! VCAP ! VSAM catalogue of VA Pacbase files	!
! ! (At installation, it is assumed that all the	!
! files are in the same catalog.)	!
! !	!
!----- ==SELV TAB (PACTABLE option) -----	!
! !	!
! TXU ! Index of VA Pactable file names	!
! TRO ! Root of VA Pactable option	!
! ! (2 characters other than PW)	!
! VCAT ! VSAM catalogue of VA Pactable files	!
! !	!
!----- ==SELV DSM (DSMS option) -----	!
! !	!
! DSMS ! Name of VA Pacbase-Dsms interface file	!
! VCAD ! DSMS option VSAM catalogue name	!
+-----+-----+-----+	

RESOURCE PARAMETERS (VOLUMES, DRIVES):

CODE	MEANING
!TAPEI	VA Pac installation back-up tape (used in the installation)
!TAP1	Tape drive address
!TAP2	Address of a second tape drive
!VOLWK	Volume with VSAM work files
!VOLPSV	Volume with back-up and journal files (To ensure data security, it is advisable to keep them separate.)
!VOLPUD	Volume with DATA components from VA Pac user files
!VOLPUX	Volume with INDEX components from VA Pac user files
!VOLPYD	Volume with DATA components from VA Pac system files
!VOLPYX	Volume with INDEX components from VA Pac system files
!VOLTUD	Volume with DATA components from VA Pactable user files (if ==SELV TAB)
!VOLTUX	Volume with INDEX components from VA Pactable system files (if ==SELV TAB)
!VWORK	Volume of non-VSAM work files
!WKBG1	3 work areas on the work unit, coded WORK.='p,n'
!WKBG2	where: p = position of the 1st track
!WKBG3	n = number of allocated tracks
!WKFx1	Optional: Equivalent to the 3 preceding areas
!WKFx2	to authorize the concurrent execution of select procedures in BG, F2, F3, etc.
!RPCP	Primary allocation of the PC file in records
!RPCS	Secondary allocation of the PC file in records (The PC file is the sequential back-up of a VA Pacbase database on the VOLPSV volume.)
!RAJP	Primary allocation of the AJ file in records
!RAJS	Secondary allocation of the AJ file in records (The AJ file is the VA Pacbase journal file on the VOLPSV volume.)

PARAMETERS OF LOAD-MODULE LIBRARIES

! CODE	! MEANING	!
!MODB	! Physical name of the library (or CIL) of the product's batch programs	!
!LMODB	! Name of the product's program library	!
!SMODB	! Name of the product's batch program sub-library, preceded by a period: ! SMODB='.sublib'	!
!MODO	! Physical name of the library (or CIL) of the product's on-line programs.	!
!SMODO	! Name of the on-line program sub-library, preceded by a period: ! SMODO='.sublib'	!
!PRLB	! Physical name of the library (or PL) of VSE procedures	!
!LPRLB	! Name of the VSE procedure library	!
!SPRLB	! Name of the VSE procedure sub-library, preceded by a period: ! SPRLB='.sublib'	!
!SLIL	! Physical name of the library (or SL) of SLI members	!
!LSLI	! Name of the SLI-member library	!
!SLIS	! Name of the SLI-member sub-library, preceded by a period: ! SLIS='.sublib'	!
!SLIT	! Type of SLI members. Default: SLIT='PAC' !	!

MISCELLANEOUS PARAMETERS

CODE	MEANING
! OPT	Parameters of the card : //OPTION Default : OPT=LOG, NODUMP
! SORTWK	Name of the SORTWK procedure
\$SORTWK	: Non-VSAM, default value The procedures (\$0SORTWK,\$xSORTWK,...) are provided in the '1VSE' module.
	SORTWK=SORTWK : SAM under VSAM Space Management
	The SORTWK procedure is provided in the '1VSE' module.
	SORTWK=..... : Your own procedure
! LIST	CICS/RDO (Resource Definition Online): List name for the VA Pacbase package resources
! GROUP	CICS/RDO (Resource Definition Online): Group name for the installed product's resources!

4.11. SEPARATION OF JCL MODULES

JCL BEFORE/AFTER LINES

```
====BEGMOD
....1      )
.....      ) Lines to be inserted before each JCL module
....n      )

====ENDMOD
....1      )
.....      ) Lines to be inserted after each JCL module
....n      )
```

Lines may be inserted as input in the MM1JCL if the default option is not appropriate (see Subchapter "INSTALLATION DEFAULT OPTIONS" above).

The purpose of these lines is to execute the separation of the JCL file created by the MM1JCL utility into as many members as there are JCL modules.

This utility adds1 ton lines in front of each JCL module and1 ton lines to the end of each JCL module.

The parameter W\$MODUL represents the module name; a period must be added after this parameter in order to concatenate it with a character string:

```
W$MODUL.B   gives  AXXXXB
W$MODUL..B  gives  AXXXX.B
W$MODULB is not transformed.
```

In order to automatically split the JCL into CMS/XEDIT members:

1. Insert the following cards:

```
====BEGMOD
:READ xxxx$MODUL  (xxxx=up to 4-character prefix)
```

2. Execute the JCL processing job
3. Set the Punch received from POWER as the first card in the CMS reader (ORDER RDR nnnn where nnnn= spool number)
4. Adjust the Reader and Spool classes (SPOOL RDR CLASS *)
5. If the volume onto which the modules are loaded is to be shared among several machines, it must be accessed with filemode A (ACCESS cuu where cuu = disk address).
6. Activate automatic dispatching by providing the desired filetype (READ * filetype)

NOTE: It is possible to give the filetype at the :READ card level which is inserted by

the BEGMOD command as follows:

```
READ xxxxW$MODUL filetype
```

7. Restore CMS initial configuration. (ACC 191 A then ACC cuu filemode)

To automatically split a SP2 or VSE/ESA library into members:

1. Insert the following cards:

```
====BEGMOD
CA xxxx$ZMODUL..P(xxxx=up to 4-character prefix)
====ENDMOD
/+
```

2. Execute the JCL processing job and store the MM1JCL PUNCH on a disk.

3. Set the PUNCH as input to LIBR with:

```
ASSGN SYSIPT,DISK,... (if the PUNCH is on a disk)
// EXEC LIBR,PARM=' ACCESS SUBLIB=yourlib.sublib'
```

To automatically split a PDS into members in MVS:

1. Insert the following cards:

```
====BEGMOD
./ ADD NAME=$PRO$PFI$ZMODUL
//%USER$ZMODUL JOB
%ACCT,VSE,CLASS=X,NOTIFY=%USER
/*XMIT name_of_VSE_machine DLM=%%
====ENDMOD
%%
```

NOTE: This is also the JCL sample provided by default in step 2.

2. Run the JCL processing job.

3. Set the resulting PUNCH.

JCL modules are separated by the following command:

```
./ ADD NAME=<JCL_module>
```

This flow makes up the IEBUPDTE input used to catalog the various modules in the PDS provided for that purpose.

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4.12. INSTALLATION PROCESS

INSTALLATION PROCESS

Once all JCLs are obtained, the installation of the VA PAC system is divided into the following phases:

1. Update and submission of POWER JCL
2. Update of CICS tables
 - 2.1. CSD
 - 2.2. ASSEMBLER
 3. Cataloging of VSE procedures
 - 3.1. SLI members
 - 3.2. VSE procedures
 4. Installation of the VA PAC system
 - 4.1. Definition of permanent files
 - 4.2. Cataloging of GPRT JCL (SLI member)
 - 4.3. Cataloging of PACX JCL (SLI member)
 - 4.4. Definition of GPRT work files
 - 4.5. Definition of PACX work files
 - 4.6. Installation of executable modules
 - 4.7. Installation of system files,
 - 4.8. Installation of user files,
 - 4.9. Initialization of documentation error messages and user parameters.
 5. Initialization of a database
 - 5.1. Installation of VisualAge Pacbase test database,
 - 5.2. Initialization of the generation-print request file,
 - 5.3. Initialization of the PEI Function files.

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- 6. Optional extensions to the VA PAC system installation
 - 6.1. VisualAge Smalltalk Function
 - 6.2. PAF Function
 - 6.2.1. Environment
 - 6.2.2. PAF+ Extension
 - 6.3. WORKSTATION Function
 - 6.4. PACBENCH QUALITY CONTROL Function
- 7. Modification of the CICS run-start JCL
- 8. Others Optional extensions system installation
 - 8.1. Pac/Impact VisualAge Pacbase Function
 - 8.2. PAC/TRANSFER Function
 - 8.3. Bridge VA Pac - TeamConnection Function
- 9. List of installed programs and files

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4.13. 1. CHANGING THE POWER JCL

1. MODIFICATION OF THE POWER JCL

The JCL module '1PWR' contains the lines to be added to the POWER submission JCL in order to use the control card\$ SLI cards).

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1. CHANGING THE POWER JCL4
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```
==MOD 1PWR
/* ****
/* --- MODIFICATION OF THE POWER EXECUTION JCL *
* =====
* ADD      LSL$PRO$SLIS IN THE LIBDEF SOURCE,SEARCH CARD *
* =====
/* ****
// DLBL $LSLI,'$SLIL',,VSAM
```

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4.14. 2.1 UPDATING THE CICS TABLES (CSD)

2.1 UPDATING THE CICS TABLES (CSD)

CICS/RDO:

The DFHCSDUP utility control cards, found in the 1CSD member, are used to update the DFHCSD.

The file table is updated by the 1FCT member. (See next sub-chapter.)

The elements contained in the 1CSD members are described in the next sub-chapter.

INSTALLATION**2.1 UPDATING THE CICS TABLES (CSD)**

```

====MOD 1CSD
*****
***** $PRO $PREL PROGRAMS *****
****

====SEQ FOR PUF
DEFINE PROGRAM($PRO.FANM) GROUP($GROUP)
DEFINE PROGRAM($PRO.FBIB) GROUP($GROUP)
DEFINE PROGRAM($PRO.FCTL) GROUP($GROUP)
DEFINE PROGRAM($PRO.FDBD) GROUP($GROUP)
DEFINE PROGRAM($PRO.FECR) GROUP($GROUP)
DEFINE PROGRAM($PRO.FENU) GROUP($GROUP)
DEFINE PROGRAM($PRO.FFOG) GROUP($GROUP)
DEFINE PROGRAM($PRO.FMCL) GROUP($GROUP)
DEFINE PROGRAM($PRO.FPGM) GROUP($GROUP)
DEFINE PROGRAM($PRO.FRUB) GROUP($GROUP)
DEFINE PROGRAM($PRO.FSDO) GROUP($GROUP)
DEFINE PROGRAM($PRO.FTXT) GROUP($GROUP)
DEFINE PROGRAM($PRO.FVER) GROUP($GROUP)
DEFINE PROGRAM($PRO.F000) GROUP($GROUP)
====SEQ
DEFINE PROGRAM($PRO.PA00) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA01) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA10) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA11) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA12) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA13) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA14) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA15) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA16) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA17) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA18) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA19) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA20) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA21) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA22) GROUP($GROUP)
====SEQ FOR PEI
DEFINE PROGRAM($PRO.PA30) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA31) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA32) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA33) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA34) GROUP($GROUP)
DEFINE PROGRAM($PRO.PA35) GROUP($GROUP)
====SEQ
DEFINE PROGRAM($PRO.PBND) GROUP($GROUP)
DEFINE PROGRAM($PRO.PHP) GROUP($GROUP)
DEFINE PROGRAM($PRO.QA00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QB00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QC00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QC01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QC50) GROUP($GROUP)
DEFINE PROGRAM($PRO.QD00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QE00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QF00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QF10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QG00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QH00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QH01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QH20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QH30) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI02) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI03) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI04) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI05) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI21) GROUP($GROUP)
DEFINE PROGRAM($PRO.QI50) GROUP($GROUP)
DEFINE PROGRAM($PRO.QK10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QK20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QK30) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL20) GROUP($GROUP)

```

INSTALLATION**2.1 UPDATING THE CICS TABLES (CSD)**

```

DEFINE PROGRAM($PRO.QL21) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL30) GROUP($GROUP)
==SEQ FOR SQL
DEFINE PROGRAM($PRO.QL40) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL41) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL45) GROUP($GROUP)
DEFINE PROGRAM($PRO.QL46) GROUP($GROUP)
==SEQ
DEFINE PROGRAM($PRO.QM00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP02) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP03) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP04) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP05) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP06) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP07) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP08) GROUP($GROUP)
DEFINE PROGRAM($PRO.QP50) GROUP($GROUP)
DEFINE PROGRAM($PRO.QR00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS02) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS03) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS04) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS05) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS06) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS08) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS09) GROUP($GROUP)
DEFINE PROGRAM($PRO.QS10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QT00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QT10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QT20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QT50) GROUP($GROUP)
DEFINE PROGRAM($PRO.QUPA) GROUP($GROUP)
DEFINE PROGRAM($PRO.QUPF) GROUP($GROUP)
DEFINE PROGRAM($PRO.QU00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QU01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QU10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QU20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QV10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QV20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QV30) GROUP($GROUP)
DEFINE PROGRAM($PRO.QX00) GROUP($GROUP)
DEFINE PROGRAM($PRO.QX01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY01) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY02) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY03) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY04) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY05) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY10) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY11) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY20) GROUP($GROUP)
DEFINE PROGRAM($PRO.QY30) GROUP($GROUP)
DEFINE PROGRAM($PRO.QZ00) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q000) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q100) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q101) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q102) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q103) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q104) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q200) GROUP($GROUP)
==SEQ FOR TAB
DEFINE PROGRAM($PRO.Q210) GROUP($GROUP)
==SEQ
DEFINE PROGRAM($PRO.Q300) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q400) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q500) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q600) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q700) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q800) GROUP($GROUP)
DEFINE PROGRAM($PRO.Q900) GROUP($GROUP)
DEFINE PROGRAM($PRO.R000) GROUP($GROUP)
DEFINE PROGRAM($PRO.R005) GROUP($GROUP)
DEFINE PROGRAM($PRO.R100) GROUP($GROUP)

```

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2.1 UPDATING THE CICS TABLES (CSD)		14

```

DEFINE PROGRAM($PRO.R200) GROUP($GROUP)
DEFINE PROGRAM($PRO.R400) GROUP($GROUP)
DEFINE PROGRAM($PRO.R500) GROUP($GROUP)
DEFINE PROGRAM($PRO.R600) GROUP($GROUP)
DEFINE PROGRAM($PRO.R980) GROUP($GROUP) RESIDENT(YES)
DEFINE PROGRAM($PRO.TPST) GROUP($GROUP)
DEFINE PROGRAM($PRO.TPWS) GROUP($GROUP)
DEFINE PROGRAM($PRO.UCTR) GROUP($GROUP) RESIDENT(YES)
*****
***** $PRO $PREL TRANSACTIONS *****
*****
DEFINE TRANSACTION($PRO$PFI) GROUP($GROUP) PROGRAM($PRO.R000)
DEFINE TRANSACTION($PRO.EE) GROUP($GROUP) PROGRAM(PARM PEI)
ADD GROUP($GROUP) LIST($LIST)
DEFINE TRANSACTION($PRO.EE) GROUP($GROUP) PROGRAM(PARM PEI)

```

INSTALLATION**2.1 UPDATING THE CICS TABLES (CSD)**

```

====MOD 1FCT
* ****
*   FCT CICS $PROD $PREL : $PRO$PFI.XX & $PRO$PRO.XX FILES
*
* ****
==SEQ FOR PEI
    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AB,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(BROWSE),                                $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, BUFNI=1, STRNO=1,                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AC,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

==SEQ
    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.AE,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AG,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, BUFNI=1, STRNO=1,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AJ,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, STRNO=1, LOG=YES,                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AN,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.AP,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AR,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, STRNO=2,                               $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.PA,          $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
```

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2.1 UPDATING THE CICS TABLES (CSD)		14

```
LSRPOOL=$NLSR,  
BUFND=2, BUFNI=1, STRNO=1,  
RECFORM=(VARIABLE,BLOCKED),  
FILSTAT=(ENABLED,CLOSED)  
$Y.*  
$Y.*  
$Y.*
```

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4.15. 2.2 UPDATING THE CICS TABLES (ASSEMBLER)

2.2 UPDATING THE CICS TABLES (ASSEMBLER)

Assembler sources:

- . PCT: JCL Module '1PCT' - two transaction codes:
 \$PRO\$PFI (DTB=YES option required) to access VA PAC .
 One transaction per database.
- \$PRO.EF (DTB=YES option required) for user parameters
 (and also PEI function) management.
 One transaction for the VA PAC system.
- . PPT: JCL Module '1PPT' - Codified Maps and Programs:
 \$PRO.Qxxx, \$PRO.Pxxx or \$PRO.Rxxx for programs,
 \$PRO.Nxxx, \$PRO.Mxxx or \$PRO.Oxxx for maps,
 where xxxx = an alphanumeric code.
 One PPT for the VA PAC system.
- . FCT: JCL Module '1FCT':
 - 2 VA PAC System files:
 \$PRO\$PRO.AE : Error messages
 \$PRO\$PRO.AP : User parameters
 - 4 user files per database:
 \$PRO\$PFI.AN : VA PAC Database, index file
 \$PRO\$PFI.AR : VA PAC Database, data file
 \$PRO\$PFI.AJ : Journal file
 \$PRO\$PFI.AG : Generation-print request file
 - 2 PEI-user files per database:
 \$PRO\$PFI.AB : Consulted PEI file
 \$PRO\$PFI.AC : Updated PEI file
 - 1 PACTABLE System file, common to the system:
 \$TRO.00TD : Table description file
 - 1 work file for PACSQL, common to the system:
 \$PRO\$PRO.PA

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The option LOG=YES for the FCT is required for files AN, AR, AJ, AG, and AP, as well as for the PEI AC file.

The estimated number of STRINGS, INDEX BUFFERS and DATA BUFFERS indicated are the minimum necessary for the system.

The two characters '\$PRO' of transaction codes, names of maps and programs and file codes are user-defined.

The \$PRO\$PFI transaction allows the execution of current operations on the database (consultation and updating).

The \$PRO.EF transaction allows the execution of current operations on user parameters stored in the AE and AP files (and in the PEI AB and AC files).

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2.2 UPDATING THE CICS TABLES (ASSEMBLER)		15

```

==MOD 1PCT
* ****
*   PCT CICS $PROD $PREL : $PRO.XX TRANSACTIONS
*
* ****
DFHPCT TYPE=ENTRY,TRANSID=$PRO.$PFI.,           $Y.*
PROGRAM=$PRO.R000,DTB=YES
DFHPCT TYPE=ENTRY,TRANSID=$PRO.EE,           $Y.*
PROGRAM=$PRO.QUPA,DTB=YES
* THE ENTRY BELOW IS THE FRENCH VERSION OF $PRO.EE
*      DFHPCT TYPE=ENTRY,TRANSID=$PRO.EF,           $Y.*
*      PROGRAM=$PRO.QUPF,DTB=YES

```

INSTALLATION**2.2 UPDATING THE CICS TABLES (ASSEMBLER)**

```

====MOD 1PPT
* ****
*     PPT CICS $PROD $PREL : PROGRAMS $PRO.XXXX
*
* ****
==SEQ FOR PUF
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FANM,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FBIB,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FCTL,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FDBD,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FECR,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FENU,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FFOG,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FMCL,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FPGM,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FRUB,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FSDO,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FTXT,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.FVER,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.F000,PGMLANG=COBOL
==SEQ
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA11,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA12,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA13,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA14,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA15,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA16,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA17,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA18,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA19,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA21,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA22,PGMLANG=COBOL
==SEQ FOR PEI
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA30,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA31,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA32,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA33,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA34,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PA35,PGMLANG=COBOL
==SEQ
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PBND,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.PPHP,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QA00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QB00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QC00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QC01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QC50,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QD00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QE00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QF00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QF10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QG00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QH00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QH01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QH20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QH30,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI02,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI03,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI04,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI05,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI21,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QI50,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QK10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QK20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QK30,PGMLANG=COBOL

```

INSTALLATION**2.2 UPDATING THE CICS TABLES (ASSEMBLER)**

```

DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL21,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL30,PGMLANG=COBOL
====SEQ FOR SQL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL40,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL41,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL45,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QL46,PGMLANG=COBOL
====SEQ
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QM00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP02,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP03,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP04,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP05,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP06,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP07,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP08,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QP50,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QR00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS02,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS03,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS04,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS05,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS06,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS08,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS09,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QS10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QT00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QT10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QT20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QT50,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QUPA,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QUPF,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QU00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QU01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QU10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QU20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QV10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QV20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QV30,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QX00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QX01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY01,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY02,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY03,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY04,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY05,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY10,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY11,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY20,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QY30,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.QZ00,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q000,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q100,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q101,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q102,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q103,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q104,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q200,PGMLANG=COBOL
====SEQ FOR TAB
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q210,PGMLANG=COBOL
====SEQ
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q300,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q400,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q500,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q600,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q700,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q800,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.Q900,PGMLANG=COBOL
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R000,PGMLANG=COBOL

```

INSTALLATION**2.2 UPDATING THE CICS TABLES (ASSEMBLER)**

```
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R005,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R100,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R200,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R400,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R500,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R600,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.R980,PGMLANG=COBOL,RES=YES  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.TPST,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.TPWS,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.UCTA,PGMLANG=COBOL,RES=YES  
DFHPPT TYPE=ENTRY,PROGRAM=$PRO.UCTR,PGMLANG=COBOL,RES=YES
```

INSTALLATION

2.2 UPDATING THE CICS TABLES (ASSEMBLER)

```

====MOD 1FCT
* ****
*   FCT CICS $PROD $PREL : $PRO$PFI.XX & $PRO$PRO.XX FILES
*
* ****
==SEQ FOR PEI
    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AB,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(BROWSE),                                $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, BUFNI=1, STRNO=1,                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AC,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

==SEQ
    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.AE,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AG,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, BUFNI=1, STRNO=1,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AJ,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=2, STRNO=1, LOG=YES,                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AN,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.AP,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, BUFNI=2, STRNO=2,                         $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PFI.AR,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
      LSRPOOL=$NLSR,                                    $Y.*
      BUFND=3, STRNO=2,                               $Y.*
      LOG=YES,                                         $Y.*
      RECFORM=(FIXED,BLOCKED),                          $Y.*
      FILSTAT=(ENABLED,OPENED)                          $Y.*

    DFHFCT TYPE=DATASET, DATASET=$PRO$PRO.PA,           $Y.*
      ACCMETH=VSAM,                                     $Y.*
      SERVREQ=(ADD,UPDATE,DELETE,BROWSE),               $Y.*
```

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```
LSRPOOL=$NLSR,  
BUFND=2,BUFNI=1,STRNO=1,  
RECFORM=(VARIABLE,BLOCKED),  
FILSTAT=(ENABLED,CLOSED)  
$Y.*  
$Y.*  
$Y.*
```

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4.16. 3.1 CATALOGING THE SLI PROCEDURES

3.1 CATALOGING OF SLI PROCEDURES

\$ SLI in POWER)

The JCL Module '1SLI' contains the source codes of procedures to be cataloged in a library which may be accessed in read mode through POWER. (Card: // LIBDEF SOURCE,SEARCH in the POWER submission JCL).

The procedures are:

- DBJB\$PRO.\$PFI Start of standard job
- JPAF\$PRO.\$PFI Standard JCL for PAF user program
- DF\$PRO.\$PFI.ff DELETE-DEFINE of ff user file
- DF\$PRO.\$PRO.ff DELETE-DEFINE of ff system file
- D\$PRO.\$PRO.fff DELETE-DEFINE of fff file
- DFSYSPAFAF DELETE-DEFINE of SYSPAFAF file
(PACSQL users)
- RG\$PRO.\$PFI.ff Rotation of ff back-up file

The 'DFxxxxff' and 'Dxxxxfff' members are used to centrally manage the VSAM file allocation parameters of the VA PAC environment.

The 'RGxxxxff' members are used to centrally manage the number of back-up file generations to be saved.

The 'DBJBxxxx' members are used to centrally manage the JCL common to all VA PAC operation procedures that is found at the beginning of jobs (for ex., allocating resources such as libraries).

INSTALLATION

3.1 CATALOGING THE SLI PROCEDURES

```

====MOD 1SLI
* $X JOB JNM=$PRFJ.1SLI,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.1SLI      ***** $PROD $PREL *****
/* PROCEDURE CATALOGING
/* *****
// OPTION $OPT
// DLBL IJSYSUC,'$VCAP' ,VSAM
// DLBL $LSLI,'$SLIL' ,VSAM
/* GOTO JCLSTXX
* ----- STEP 1 ----- LIBR
// EXEC LIBR,PARM=' AC S=$LSLI$SLIS'
CA DBJB$PRO.$PFI..$SLIT R=Y
// ASSGN SYS005,SYSLST
// ASSGN SYS006,SYSRDR
// DLBL IJSYSUC,'$VCAP' ,VSAM
// DLBL $LMODB,'$MODB' ,VSAM
// DLBL $LPRLB,'$PRLB' ,VSAM
// LIBDEF PHASE,SEARCH=$LMODB$SMODB
// LIBDEF PROC,SEARCH=$LPRLB$SPRLB
/+
CA PAFB$PRO.$PFI..$SLIT R=Y
* --- STEP 1 --- PAFP10
// DLBL IJSYSUC,'$VCAP' ,VSAM
// DLBL PAC7AE,'$PXY..$PRO$PRO.AE' ,VSAM
// DLBL PAC7AN,'$PXU..$PRO$PFI.AN' ,VSAM
// DLBL PAC7AR,'$PXU..$PRO$PFI.AR' ,VSAM
// EXEC PROC=$$PACWK1,DLBL=COB80,ASSGN=S015
// EXEC PAFP10,SIZE=AUTO
CBL APOST,LIB,NOADV,TRUNC(BIN),NOXREF,RES,RENT
* $X DATA INPUT
* $X /*
* --- STEP 2 --- IGYCRCTL
// EXEC PROC=$$PACWK1,ASSGN=SYSIPT
// EXEC IGYCRCTL,SIZE=IGYCRCTL
* --- STEP 3 --- LNKEDT
// EXEC LNKEDT
* $X /&
CLOSE SYSIPT,SYSRDR
/+
CA PAFT$PRO.$PFI..$SLIT R=Y
* --- STEP 1 --- PAFP10
// DLBL IJSYSUC,'$VCAP' ,VSAM
// DLBL PAC7AE,'$PXY..$PRO$PRO.AE' ,VSAM
// DLBL PAC7AN,'$PXU..$PRO$PFI.AN' ,VSAM
// DLBL PAC7AR,'$PXU..$PRO$PFI.AR' ,VSAM
// EXEC PROC=$$PACWK1,DLBL=COB80,ASSGN=S015
// EXEC PAFP10,SIZE=AUTO
CBL APOST,LIB,NOADV,TRUNC(BIN),NOXREF,RES,RENT
CBL XOPTS(CICS,OPT,NOLIST)
* $X DATA INPUT
* $X /*
* --- STEP 2 --- DFHECP1$
// ASSGN SYS091,SYSPCH
// EXEC PROC=$$PACWK1,ASSGN=SYSIPT
// EXEC PROC=$$PACWK2,ASSGN=SYSPCH
// EXEC DFHECP1$
* --- STEP 3 --- IGYCRCTL
CLOSE SYSIPT,SYSRDR
CLOSE SYSPCH,SYS091
// EXEC PROC=$$PACWK2,ASSGN=SYSIPT
INCLUDE DFHECI
// EXEC IGYCRCTL,SIZE=IGYCRCTL
* --- STEP 4 --- LNKEDT
// EXEC LNKEDT
* $X /&
CLOSE SYSIPT,SYSRDR
/+
CA JPAF$PRO.$PFI..$SLIT R=Y
/* == TOP OF PAF JCL SKELETON ==
// DLBL $PRO$PRO.CT,'$VCAP' ,VSAM
// DLBL SY8PAF,'$XW..$SYSPAF' ,VSAM,CAT=$PRO$PRO.CT

```

INSTALLATION
3.1 CATALOGING THE SLI PROCEDURES

```

// DLBL PAC7AE,'$PXY..$PRO$PRO.AE' ,VSAM,CAT=$PRO$PRO.CT
// DLBL PAC7AN,'$PXU..$PRO$PFI.AN' ,VSAM,CAT=$PRO$PRO.CT
// DLBL PAC7AR,'$PXU..$PRO$PFI.AR' ,VSAM,CAT=$PRO$PRO.CT
/* == END OF PAF JCL SKELETON ==
/+
CA DFMODFBK.$SLIT R=Y
/* ----- DELETE-DEFINE FIXBLK MODEL ----- */
DEL ($SMODELF) CL
DEF CL (NAME ($SMODELF) -
        VOL($VOLWK) -
        REC (100 100) -
        RECSZ(80 80) -
        CISZ (8192) -
        RECFM(FB(80)) -
        RUS -
        NAL -
        NIXD -
        ) DATA (NAME ($SMODELF..D) )
/+
CA DFMODVBK.$SLIT R=Y
/* ----- DELETE-DEFINE VARBLK MODEL ----- */
DEL ($SMODELV) CL
DEF CL (NAME ($SMODELV) -
        VOL($VOLWK) -
        REC (100 100) -
        RECSZ(80 200) -
        CISZ (8192) -
        RECFM(VB) -
        RUS -
        NAL -
        NIXD -
        ) DATA (NAME ($SMODELV..D) )
/+
CA DF$PRO.$PFI.AB.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AB ----- */
DEL ($PXU..$PRO.$PFI.AB) CL
DEF CL (NAME ($PXU..$PRO.$PFI.AB) -
        SHR(4) RUS KEYS(26 0) -
        RECSZ(110 110) REC(200 200) -
        ) INDEX (NAME ($PXU..$PRO.$PFI.AB.I) -
                  VOL($VOLPUX) -
        ) DATA (NAME ($PXU..$PRO.$PFI.AB.D) -
                  VOL($VOLPUD) FSPC(10 5) CISZ(4096) )
/+
CA DF$PRO.$PFI.AC.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AC ----- */
DEL ($PXU..$PRO.$PFI.AC) CL
DEF CL (NAME ($PXU..$PRO.$PFI.AC) -
        SHR(2 3) RUS KEYS(26 0) -
        RECSZ(110 110) REC(200 200) -
        ) INDEX (NAME ($PXU..$PRO.$PFI.AC.I) -
                  VOL($VOLPUX) -
        ) DATA (NAME ($PXU..$PRO.$PFI.AC.D) -
                  VOL($VOLPUD) FSPC (10 5) CISZ(4096) )
/+
CA DF$PRO.$PRO.AE.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AE ----- */
DEL ($PXY..$PRO.$PRO.AE) CL
DEF CL (NAME ($PXY..$PRO.$PRO.AE) -
        SHR(2 3) RUS KEYS(12 0) -
        RECSZ(80 80) REC(30000 1000) -
        ) INDEX (NAME ($PXY..$PRO.$PRO.AE.I) -
                  VOL($VOLPYX) -
        ) DATA (NAME ($PXY..$PRO.$PRO.AE.D) -
                  VOL($VOLPYD) FSPC(2 1) CISZ(4096) )
/+
CA DF$PRO.$PFI.AG.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AG ----- */
DEL ($PXU..$PRO.$PFI.AG) CL
DEF CL (NAME ($PXU..$PRO.$PFI.AG) -
        SHR(2) RUS KEYS(27 0) -
        RECSZ(150 150) REC(500 500) -
        ) INDEX (NAME ($PXU..$PRO.$PFI.AG.I) -

```

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3.1 CATALOGING THE SLI PROCEDURES

```

        VOL($VOLPUX) -
    ) DATA      (NAME ($PXU..$PRO.$PFI.AG.D) -
                  VOL($VOLPUD) FSPC(10 5) CISZ(4096) )

/+ CA DF$PRO.$PFI.AJ.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AJ ----- */
DEL          ($PXU..$PRO.$PFI.AJ) CL
DEF CL       (NAME ($PXU..$PRO.$PFI.AJ) -
              SHR(2) RUS NUMD VOL($VOLPUD) -
              RECSZ(167 167) REC($RAJP $RAJS) -
    ) DATA      (NAME ($PXU..$PRO.$PFI.AJ.D) -
                  CISZ(8192) )

/+ CA DF$PRO.$PFI.AN.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AN ----- */
DEL          ($PXU..$PRO.$PFI.AN) CL
DEF CL       (NAME ($PXU..$PRO.$PFI.AN) -
              SHR(2) RUS KEYS(43 0) -
              RECSZ(54 54) REC(90000 20000) -
    ) INDEX     (NAME ($PXU..$PRO.$PFI.AN.I) -
                  VOL($VOLPUX) -
    ) DATA      (NAME ($PXU..$PRO.$PFI.AN.D) -
                  VOL($VOLPUD) FSPC(5 5) -
                  CISZ(8192) BUFSP(35840) )

/+ CA DF$PRO.$PRO.AP.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AP ----- */
DEL          ($PXY..$PRO.$PRO.AP) CL
DEF CL       (NAME ($PXY..$PRO.$PRO.AP) -
              SHR(2 3) RUS KEYS(7 0) -
              RECSZ(80 80) REC(500 500) -
    ) INDEX     (NAME ($PXY..$PRO.$PRO.AP.I) -
                  VOL($VOLPYX) -
    ) DATA      (NAME ($PXY..$PRO.$PRO.AP.D) -
                  VOL($VOLPYD) FSPC(10 5) CISZ(4096) )

/+ CA DF$PRO.$PFI.AR.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AR ----- */
DEL          ($PXU..$PRO.$PFI.AR) CL
DEF CL       (NAME ($PXU..$PRO.$PFI.AR) -
              SHR(2) RUS NUMD VOL($VOLPUD) -
              RECSZ(140 140) REC(40000 15000) -
    ) DATA      (NAME ($PXU..$PRO.$PFI.AR.D) -
                  CISZ(8192) )

/+ CA D$PRO.$PRO.AE0.$SLIT R=Y
/* ----- DELETE-DEFINE FILE AE0 ----- */
DEL          ($PXY..SEQ.$PRO$PRO..AE0) CL
DEF CL       (NAME ($PXY..SEQ.$PRO$PRO..AE0) -
              MODEL($MODELF) -
              VOL($VOLPSV) REC(30000 1000) -
    ) DATA      (NAME ($PXY..SEQ.$PRO$PRO..AE0.D) )

/+ CA DF$PRO.$PRO.GS.$SLIT R=Y
/* ----- DELETE-DEFINE FILE GS ----- */
DEL          ($PXU..$PRO.$PRO.GS) CL
DEF CL       (NAME ($PXU..$PRO.$PRO.GS) -
              SHR(2 3) RUS KEYS(25 0) -
              RECSZ(203 203) REC(1000 1000) -
    ) INDEX     (NAME ($PXU..$PRO.$PRO.GS.I) -
                  VOL($VOLPUX) -
    ) DATA      (NAME ($PXU..$PRO.$PRO.GS.D) -
                  VOL($VOLPUD) FSPC(5 5) CISZ(4096) )

/+ CA DF$PRO.$PRO.PA.$SLIT R=Y
/* ----- DELETE-DEFINE FILE PA ----- */
DEL          ($PXY..$PRO.$PRO.PA) CL
DEF CL       (NAME ($PXY..$PRO.$PRO.PA) -
              SHR(2 3) RUS KEYS(37 2) -
              RECSZ(200 539) REC(10000 10000) -
    ) INDEX     (NAME ($PXY..$PRO.$PRO.PA.I) -
                  VOL($VOLPYX) -
    ) DATA      (NAME ($PXY..$PRO.$PRO.PA.D) -

```

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```

          VOL($VOLPYD) FSPC(5 5) CISZ(8192) )

/+ CA DF$PRO.$PFI.PC.$SLIT R=Y
/* ----- DELETE-DEFINE FILE PC ----- */
DEL      ($PXU..SEQ.$PRO$PFI..NEWPC) CL
DEF CL    (NAME ($PXU..SEQ.$PRO$PFI..NEWPC) -
           MODEL($MODELVC) -
           RECSZ(63 159) REC($RPCP $RPCS) -
           VOL($VOLPSV) -
           ) DATA   (NAME ($PXU..SEQ.$PRO$PFI..NEWPC.D) )

/+ CA DF$PRO.$PFI.PD.$SLIT R=Y
/* ----- DELETE-DEFINE FILE PD ----- */
DEL      ($PXU..SEQ.$PRO$PFI..NEWPD) CL
DEF CL    (NAME ($PXU..SEQ.$PRO$PFI..NEWPD) -
           MODEL($MODELVC) -
           RECSZ(63 159) REC($RPCP $RPCS) -
           VOL($VOLPSV) -
           ) DATA   (NAME ($PXU..SEQ.$PRO$PFI..NEWPD.D) )

/+ CA DF$PRO.$PRO.SC.$SLIT R=Y
/* ----- DELETE-DEFINE FILE SC ----- */
DEL      ($PXY..$PRO.$PRO.SC) CL
DEF CL    (NAME ($PXY..$PRO.$PRO.SC) -
           SHR(2 3) RUS KEYS(4 0) -
           ) INDEX (NAME ($PXY..$PRO.$PRO.SC.I) -
                     VOL($VOLPYX) -
           ) DATA   (NAME ($PXY..$PRO.$PRO.SC.D) -
                     RECSZ(3204 3204) CISZ(22528) -
                     VOL($VOLPYD) REC (40 5) )

/+ CA DF$PRO.$PRO.SF.$SLIT R=Y
/* ----- DELETE-DEFINE FILE SF ----- */
DEL      ($PXY..$PRO.$PRO.SF) CL
DEF CL    (NAME ($PXY..$PRO.$PRO.SF) -
           MODEL($MODELFC) -
           SHR(2 3) -
           RECFM(FB(119)) -
           RECSZ(119 119) REC(3000 100) -
           VOL($VOLPYD) -
           ) DATA   (NAME ($PXY..$PRO.$PRO.SF.D) )

/+ CA DF$PRO.$PRO.SG.$SLIT R=Y
/* ----- DELETE-DEFINE FILE SG ----- */
DEL      ($PXY..$PRO.$PRO.SG) CL
DEF CL    (NAME ($PXY..$PRO.$PRO.SG) -
           SHR(2 3) RUS KEYS(5 0) -
           ) INDEX (NAME ($PXY..$PRO.$PRO.SG.I) -
                     VOL($VOLPYX) -
           ) DATA   (NAME ($PXY..$PRO.$PRO.SG.D) -
                     RECSZ(4605 4605) CISZ(22528) -
                     VOL($VOLPYD) REC(400 10) )

/+ CA DF$PRO.$PRO.SP.$SLIT R=Y
/* ----- DELETE-DEFINE FILE SP ----- */
DEL      ($PXY..$PRO.$PRO.SP) CL
DEF CL    (NAME ($PXY..$PRO.$PRO.SP) -
           SHR(2 3) RUS KEYS(5 0) -
           ) INDEX (NAME ($PXY..$PRO.$PRO.SP.I) -
                     VOL($VOLPYX) -
           ) DATA   (NAME ($PXY..$PRO.$PRO.SP.D) -
                     RECSZ(4605 4605) CISZ(22528) -
                     VOL($VOLPYD) REC(5 1) )

/+ CA DF$PRO.$PRO.SR.$SLIT R=Y
/* ----- DELETE-DEFINE FILE SR ----- */
DEL      ($PXY..$PRO.$PRO.SR) CL
DEF CL    (NAME ($PXY..$PRO.$PRO.SR) -
           SHR (2 3) RUS KEYS(5 0) -
           ) INDEX (NAME ($PXY..$PRO.$PRO.SR.I) -
                     VOL($VOLPYX) -
           ) DATA   (NAME ($PXY..$PRO.$PRO.SR.D) -
                     RECSZ(4605 4605) CISZ(22528) -

```

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3.1 CATALOGING THE SLI PROCEDURES

```

          VOL($VOLPYD) REC(30 5) )

/+ CA DF$PRO.$PRO.SS.$SLIT R=Y
   /* ----- DELETE-DEFINE FILE SS ----- */
   DEL      ($PXY..$PRO.$PRO.SS) CL
   DEF CL    (NAME ($PXY..$PRO.$PRO.SS) -
              SHR(2 3) RUS KEYS(5 0) -
   ) INDEX   (NAME ($PXY..$PRO.$PRO.SS.I) -
              VOL($VOLPYX) -
   ) DATA    (NAME ($PXY..$PRO.$PRO.SS.D) -
              RECSZ(4605 4605) CISZ(22528) -
              VOL($VOLPYD) REC(300 10) )

/+ CA DFSYSPAF.$SLIT R=Y
   /* ----- DELETE-DEFINE FILE SYSPAF ----- */
   DEL      ($XW..SYSPAF) CL
   DEF CL    (NAME ($XW..SYSPAF) -
              SHR(2 3) RUS NAL KEYS(12 0) -
              RECSZ(170 468) REC(1000 1000) -
              VOL($VOLWK) -
   ) INDEX   (NAME ($XW..SYSPAF.I) -
   ) DATA    (NAME ($XW..SYSPAF.D) CISZ(8192) )

/+ CA D$PRO.$PRO.TCO.$SLIT R=Y
   /* ----- DELETE-DEFINE FICHIER TCO ----- */
   DEL      ($PXY..$PRO.$PRO.TCO) CL
   DEF CL    (NAME ($PXY..$PRO.$PRO.TCO) -
              MODEL($MODELF) -
              VOL($VOLPSV) REC(50 10) -
              RECSZ(117 117) RECFM(FB(117)) -
   ) DATA    (NAME ($PXY..$PRO.$PRO.TCO.D) )

/+ CA DF$TRO.00TD.$SLIT R=Y
   /* --- DELETE-DEFINE FICHIER 00TD --- */
   DEL      ($TXU..$TRO.00TD) CL
   DEF CL    (NAME ($TXU..$TRO.00TD) -
              SHR(2 3) RUS KEYS(21 0) -
              RECSZ(240 240) REC(1000 1000) -
   ) INDEX   (NAME ($TXU..$TRO.00TD.I) -
              VOL($VOLTUX) -
   ) DATA    (NAME ($TXU..$TRO.00TD.D) -
              VOL($VOLTUD) FSPC(10 5) CISZ(4096) )

/+ CA D$PRO.$PRO.VGE.$SLIT R=Y
   /* ----- DELETE-DEFINE FILE VGE ----- */
   DEL      ($PXY..$PRO.$PRO.VGE) CL
   DEF CL    (NAME ($PXY..$PRO.$PRO.VGE) -
              MODEL($MODELF) -
              VOL($VOLPSV) REC(100 10) -
              RECSZ(117 117) RECFM(FB(117)) -
   ) DATA    (NAME ($PXY..$PRO.$PRO.VGE.D) )

/+ CA RG$PRO.$PFI.FH.$SLIT R=Y
   /* --- ROTATING BACKUP FILE FH --- */
   DEL      ($PXU..SEQ.$PRO$PFI..OLDFH) CL
   ALTER   $PXU..SEQ.$PRO$PFI..FH -
   NEWNAME ($PXU..SEQ.$PRO$PFI..OLDFH)
   ALTER   $PXU..SEQ.$PRO$PFI..FH.D -
   NEWNAME ($PXU..SEQ.$PRO$PFI..OLDFH.D)
   ALTER   $PXU..SEQ.$PRO$PFI..NEWFH -
   NEWNAME ($PXU..SEQ.$PRO$PFI..FH)
   ALTER   $PXU..SEQ.$PRO$PFI..NEWFH.D -
   NEWNAME ($PXU..SEQ.$PRO$PFI..FH.D)

/+ CA RG$PRO.$PFI.FO.$SLIT R=Y
   /* --- ROTATING BACKUP FILE FO --- */
   DEL      ($PXU..SEQ.$PRO$PFI..OLDFO) CL
   ALTER   $PXU..SEQ.$PRO$PFI..FO -
   NEWNAME ($PXU..SEQ.$PRO$PFI..OLDFO)
   ALTER   $PXU..SEQ.$PRO$PFI..FO.D -
   NEWNAME ($PXU..SEQ.$PRO$PFI..OLDFO.D)
   ALTER   $PXU..SEQ.$PRO$PFI..NEWFO -
   NEWNAME ($PXU..SEQ.$PRO$PFI..FO)

```

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3.1 CATALOGING THE SLI PROCEDURES

```

ALTER      $PXU..SEQ.$PRO$PFI..NEWFO.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..FO.D)
/+
CA RG$PRO.$PFI.FQ.$SLIT R=Y
/* --- ROTATING BACKUP FILE FQ --- */
DEL        ($PXU..SEQ.$PRO$PFI..OLDFQ) CL
ALTER      $PXU..SEQ.$PRO$PFI..FQ -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDFQ)
ALTER      $PXU..SEQ.$PRO$PFI..FQ.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDFQ.D)
ALTER      $PXU..SEQ.$PRO$PFI..NEWFQ -
NEWNAME    ($PXU..SEQ.$PRO$PFI..FQ)
ALTER      $PXU..SEQ.$PRO$PFI..NEWFQ.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..FQ.D)
/+
CA RG$PRO.$PFI.FR.$SLIT R=Y
/* --- ROTATING BACKUP FILE FR --- */
DEL        ($PXU..SEQ.$PRO$PFI..OLDFR) CL
ALTER      $PXU..SEQ.$PRO$PFI..FR -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDFR)
ALTER      $PXU..SEQ.$PRO$PFI..FR.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDFR.D)
ALTER      $PXU..SEQ.$PRO$PFI..NEWFR -
NEWNAME    ($PXU..SEQ.$PRO$PFI..FR)
ALTER      $PXU..SEQ.$PRO$PFI..NEWFR.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..FR.D)
/+
CA RG$PRO.$PFI.PC.$SLIT R=Y
/* --- ROTATING BACKUP FILE PC --- */
DEL        ($PXU..SEQ.$PRO$PFI..OLDPC) CL
ALTER      $PXU..SEQ.$PRO$PFI..PC -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPC)
ALTER      $PXU..SEQ.$PRO$PFI..PC.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPC.D)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPC -
NEWNAME    ($PXU..SEQ.$PRO$PFI..PC)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPC.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..PC.D)
/+
CA RG$PRO.$PFI.PD.$SLIT R=Y
/* --- ROTATING BACKUP FILE PD --- */
DEL        ($PXU..SEQ.$PRO$PFI..OLDPD) CL
ALTER      $PXU..SEQ.$PRO$PFI..PD -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPD)
ALTER      $PXU..SEQ.$PRO$PFI..PD.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPD.D)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPD -
NEWNAME    ($PXU..SEQ.$PRO$PFI..PD)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPD.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..PD.D)
/+
CA RG$PRO.$PRO.PE.$SLIT R=Y
/* --- ROTATING BACKUP FILE PE --- */
DEL        ($PXY..SEQ.$PRO$PRO..OLDPE) CL
ALTER      $PXY..SEQ.$PRO$PRO..PE -
NEWNAME    ($PXY..SEQ.$PRO$PRO..OLDPE)
ALTER      $PXY..SEQ.$PRO$PRO..PE.D -
NEWNAME    ($PXY..SEQ.$PRO$PRO..OLDPE.D)
ALTER      $PXY..SEQ.$PRO$PRO..NEWPE -
NEWNAME    ($PXY..SEQ.$PRO$PRO..PE)
ALTER      $PXY..SEQ.$PRO$PRO..NEWPE.D -
NEWNAME    ($PXY..SEQ.$PRO$PRO..PE.D)
/+
CA RG$PRO.$PFI.PG.$SLIT R=Y
/* --- ROTATING BACKUP FILE PG --- */
DEL        ($PXU..SEQ.$PRO$PFI..OLDPG) CL
ALTER      $PXU..SEQ.$PRO$PFI..PG -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPG)
ALTER      $PXU..SEQ.$PRO$PFI..PG.D -
NEWNAME    ($PXU..SEQ.$PRO$PFI..OLDPG.D)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPG -
NEWNAME    ($PXU..SEQ.$PRO$PFI..PG)
ALTER      $PXU..SEQ.$PRO$PFI..NEWPG.D -

```

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3.1 CATALOGING THE SLI PROCEDURES

```

NEWNAME      ($PXU..SEQ.$PRO$PFI..PG.D)
/
CA RG$PRO.$PFI.PJ.$SLIT R=Y
/* --- ROTATING BACKUP FILE PJ --- */
DEL          ($PXU..SEQ.$PRO$PFI..OLDPJ) CL
ALTER        $PXU..SEQ.$PRO$PFI..PJ -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPJ)
ALTER        $PXU..SEQ.$PRO$PFI..PJ.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPJ.D)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPJ -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PJ)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPJ.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PJ.D)
/
CA RG$PRO.$PFI.PP.$SLIT R=Y
/* --- ROTATING BACKUP FILE PP --- */
DEL          ($PXU..SEQ.$PRO$PFI..OLDPF) CL
ALTER        $PXU..SEQ.$PRO$PFI..PP -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPF)
ALTER        $PXU..SEQ.$PRO$PFI..PP.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPF.D)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPF -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PP)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPF.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PP.D)
/
CA RG$PRO.$PFI.PQ.$SLIT R=Y
/* --- ROTATING BACKUP FILE PQ --- */
DEL          ($PXU..SEQ.$PRO$PFI..OLDPQ) CL
ALTER        $PXU..SEQ.$PRO$PFI..PQ -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPQ)
ALTER        $PXU..SEQ.$PRO$PFI..PQ.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..OLDPQ.D)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPQ -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PQ)
ALTER        $PXU..SEQ.$PRO$PFI..NEWPQ.D -
NEWNAME     ($PXU..SEQ.$PRO$PFI..PQ.D)
/
/*
// EXEC LISTLOG
/&
* $X EOJ

```

4.17. 3.2 CATALOGING THE VSE PROCEDURES

3.2 CATALOGING OF VSE PROCEDURES

The JCL Module '1VSE' contains the source code of the JCL procedures to be catalogued. These procedures are offered as examples only and can be changed (for example, by altering the 'SORTWK' parameter of installation job 'JOB2').

The following VSE procedures are in the stream of procedures to catalog:

SORTWK	Procedure to allocate a SORTWK in SAM under VSAM
\$0SORTWK	Procedure to allocate a SORTWK in SAM for the BG partition
\$xSORTWK	Procedure to allocate a SORTWK in SAM for the Fx partition (F2 to F9)
\$0PACWK1	Procedures to allocate SAM work files
\$0PACWK2	for the BG partition
\$xPACWK1	Procedures to allocate SAM work files
\$xPACWK2	for the Fx partition (F2 to F9)

INSTALLATION**3.2 CATALOGING THE VSE PROCEDURES**

```

====MOD 1VSE
* $X JOB JNM=$PRFJ.1VSE,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.1VSE      ***** $PROD $PREL *****
/* CATALOGING OF VSE PROCEDURES
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
* ----- STEP 1 ----- LIBR
// EXEC LIBR,PARM=' AC S=$LPRLB$SPRLB'
CATALP SORTWK
// DLBL SORTWK1,'$X..SORTWK',0,VSAM,DISP=(NEW,DELETE,DELETE),    $Y.*
      RECSIZE=9999,RECORDS=(999,999)
/+
CATALP $0SORTWK
// DLBL SORTWK1,'PACWK1.BG',0,DA
// EXTENT SYS001,$VWORK,,1,$WKBG1
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $2SORTWK
// DLBL SORTWK1,'PACWK1.F2',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF21
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $3SORTWK
// DLBL SORTWK1,'PACWK1.F3',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF31
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $4SORTWK
// DLBL SORTWK1,'PACWK1.F4',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF41
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $5SORTWK
// DLBL SORTWK1,'PACWK1.F5',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF51
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $6SORTWK
// DLBL SORTWK1,'PACWK1.F6',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF61
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $7SORTWK
// DLBL SORTWK1,'PACWK1.F7',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF71
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $8SORTWK
// DLBL SORTWK1,'PACWK1.F8',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF81
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $9SORTWK
// DLBL SORTWK1,'PACWK1.F9',0,DA
// EXTENT SYS001,$VWORK,,1,$WKF91
// ASSGN SYS001,DISK,VOL=$VWORK,SHR
/+
CATALP $0PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSPT THEN
//   SETPARM OPT=PERM,DLBL=IJSYSPIN
// IF ASSGN=SYSPCH THEN
//   SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
//   SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.BG',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKBG2
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+

```

INSTALLATION**3.2 CATALOGING THE VSE PROCEDURES**

```

CATALP $0PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.BG',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKBG3
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $2PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F2',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKF22
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $2PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.F2',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKF23
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $3PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F3',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKF32
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $3PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.F3',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKF33
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $4PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F4',0,SD
// EXTENT &ASSGN,$VWORK,,,$WKF42
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $4PACWK2

```

INSTALLATION**3.2 CATALOGING THE VSE PROCEDURES**

```

// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.F4',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF43
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $5PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F5',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF52
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $5PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.F5',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF53
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $6PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F6',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF62
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $6PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK3.F6',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF63
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $7PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSYSLS
// DLBL &DLBL,'PACWK2.F7',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF72
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $7PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP

```

INSTALLATION**3.2 CATALOGING THE VSE PROCEDURES**

```

// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSSYSLS
// DLBL &DLBL,'PACWK3.F7',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF73
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $8PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSSYSLS
// DLBL &DLBL,'PACWK2.F8',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF82
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $8PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSSYSLS
// DLBL &DLBL,'PACWK3.F8',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF83
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $9PACWK1
// PROC DLBL=SORTWK2,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSSYSLS
// DLBL &DLBL,'PACWK2.F9',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF92
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
CATALP $9PACWK2
// PROC DLBL=SORTWK3,ASSGN=SYS001,OPT=TEMP
// IF ASSGN=SYSIPT THEN
// SETPARM OPT=PERM,DLBL=IJSSYSIN
// IF ASSGN=SYSPCH THEN
// SETPARM OPT=PERM,DLBL=IJSSYSPH
// IF ASSGN=SYSLST THEN
// SETPARM OPT=PERM,DLBL=IJSSYSLS
// DLBL &DLBL,'PACWK3.F9',0,SD
// EXTENT &ASSGN,$VWORK,,,,$WKF93
// ASSGN &ASSGN,DISK,&OPT,VOL=$VWORK,SHR
/+
/*
// EXEC LISTLOG
/&
* $X EOJ

```

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4.18. 4.1 DEFINITION OF PERMANENT FILES

4.1 DEFINITION OF PERMANENT FILES

The JCL Module '2FIC' performs a DELETE-DEFINE on all VSAM permanent files after checking for each file that it does not currently exist on the designated catalog.

INSTALLATION**4.1 DEFINITION OF PERMANENT FILES**

```

====MOD 2FIC
* $X JOB JNM=$PRFJ.2FIC,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.2FIC      ***** $PROD $PREL *****
* PERMANENT FILE DEFINITION
/* ***** $PROD $PREL *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
====SEQ FOR PEI
LISTC ENT($PXU..$PRO.$PFI.AB)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AB.$SLIT
END
LISTC ENT($PXU..$PRO.$PFI.AC)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AC.$SLIT
END
====SEQ
LISTC ENT($PXY..$PRO.$PRO.AE)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PRO.AE.$SLIT
END
LISTC ENT($PXU..$PRO.$PFI.AG)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AG.$SLIT
END
LISTC ENT($PXU..$PRO.$PFI.AJ)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AJ.$SLIT
END
LISTC ENT($PXU..$PRO.$PFI.AN)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AN.$SLIT
END
LISTC ENT($PXY..$PRO.$PRO.AP)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PRO.AP.$SLIT
END
LISTC ENT($PXU..$PRO.$PFI.AR)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PFI.AR.$SLIT
END
LISTC ENT($MODELF)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DFMODFBK.$SLIT
END
LISTC ENT($MODELV)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DFMODVBK.$SLIT
END
LISTC ENTRY($PXU..SEQ.$PRO$PFI..OLDGL)
IF LASTCC EQ 4 THEN DO
/* ----- DELETE-DEFINE FILE GL (-1) ---- */
DEL          ($PXU..SEQ.$PRO$PFI..OLDGL) CL
DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..OLDGL) -
             MODEL($MODELF) -
             RECFM(FB(90)) -
             RECSZ(90 90) REC(1000 1000) -
             VOL($VOLPUD) -
             ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..OLDGL.D) )
END
LISTC ENTRY($PXU..SEQ.$PRO$PFI..GL)
IF LASTCC EQ 4 THEN DO
/* ----- DELETE-DEFINE FILE GL (0) ---- */
DEL          ($PXU..SEQ.$PRO$PFI..GL) CL
DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..GL) -
             MODEL($MODELF) -

```

INSTALLATION**4.1 DEFINITION OF PERMANENT FILES**

```

      RECFM(FB(90)) -
      RECSZ(90 90) REC(1000 1000) -
      VOL($VOLPUD) -
 ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..GL.D) )
END
LISTC ENTRY($PXU..SEQ.$PRO$PFI..OLDGK)
IF LASTCC EQ 4 THEN DO
/* ----- DELETE-DEFINE FILE GK (-1) ---- */
DEL          ($PXU..SEQ.$PRO$PFI..OLDGK) CL
DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..OLDGK) -
      MODEL($MODELF) -
      RECFM(FB(100)) -
      RECSZ(100 100) REC(1000 1000) -
      VOL($VOLPUD) -
 ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..OLDGK.D) )
END
LISTC ENTRY($PXU..SEQ.$PRO$PFI..GK)
IF LASTCC EQ 4 THEN DO
/* ----- DELETE-DEFINE FILE GK (0) ---- */
DEL          ($PXU..SEQ.$PRO$PFI..GK) CL
DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..GK) -
      MODEL($MODELF) -
      RECFM(FB(100)) -
      RECSZ(100 100) REC(1000 1000) -
      VOL($VOLPUD) -
 ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..GK.D) )
END
LISTC ENTRY($PXU..$PRO.$PRO.GS)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PRO.GS.$SLIT
END
LISTC ENTRY($PYX..$PRO.$PRO.PA)
IF LASTCC EQ 4 THEN DO
* $X SLI MEM=DF$PRO.$PRO.PA.$SLIT
END
/*
// EXEC LISTLOG
/&
* $X EOJ

```

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4.19. 4.2 CATALOGING OF GPRT PROCEDURE

4.2 CATALOGING OF THE GPRT PROCEDURE JCL

The JCL Module '2GPR' executes, as a SLI member, the cataloging of the JCL for the generation-print (GPRT) procedure. This method is provided only with GPRT because of its complex and frequent use; however, it can be extended to all VA PAC procedures.

INSTALLATION

4.2 CATALOGING OF GPRT PROCEDURE

```

====MOD 2GPR
* $X JOB JNM=$PRFJ.2GPR,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.2GPR      ***** $PROD $PREL *****
/* ****
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
// DLBL $LSLI,'$SLIL',,VSAM
// EXEC LIBR,PARM='AC S=$LSLI$SLIS:CA GPRT$PRO$PFI..$SLIT R=Y'
/* ****
*           GENERATION AND PRINTING
/* ****
* $P SLI MEM=DBJB$PRO.$PFI..$SLIT
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..WGPR INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
* $X DATA GPRTDATA
/*
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$XW..WGPR SYSPAF',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE (SYSIPT) RUS
999999999999
/*
/. JCLST04
* --- STEP 04 --- PACB
// DLBL IJSYSUC,'$VCAP',,VSAM
==SEQ FOR PEI
// DLBL PAC7AB,'$PXU..$PRO.$PFI.AB',,VSAM
// DLBL PAC7AC,'$PXU..$PRO.$PFI.AC',,VSAM
==SEQ
// DLBL PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DLBL PAC7AG,'$PXU..$PRO.$PFI.AC',,VSAM
// DLBL PAC7AN,'$PXU..$PRO.$PFI.AC',,VSAM
// DLBL PAC7AP,'$PXY..$PRO.$PRO.AC',,VSAM
// DLBL PAC7AR,'$PXU..$PRO.$PFI.AC',,VSAM
// DLBL PAC7EB,'$XW..WGPR.EB',,VSAM
// DLBL PAC7EE,'$XW..WGPR.EE',,VSAM
// DLBL PAC7EG,'$XW..WGPR.EG',,VSAM
// DLBL PAC7EN,'$XW..WGPR.EN',,VSAM
// DLBL PAC7EP,'$XW..WGPR.EP',,VSAM
// DLBL PAC7EQ,'$XW..WGPR.EQ',,VSAM
// DLBL PAC7ER,'$XW..WGPR.ER',,VSAM
// DLBL PAC7EV,'$XW..WGPR.EV',,VSAM
// DLBL PAC7GI,'$XW..WGPR.GI',,VSAM
// DLBL PAC7GK,'$PXU..SEQ.$PRO$PFI..GK',,VSAM
// DLBL PAC7GL,'$PXU..SEQ.$PRO$PFI..GL',,VSAM
// DLBL PAC7GM,'$XW..WGPR.GM',,VSAM
// DLBL PAC7GN,'$XW..WGPR.GN',,VSAM
// DLBL PAC7GO,'$XW..WGPR.GO',,VSAM
// DLBL PAC7GS,'$PXU..$PRO.$PRO.GS',,VSAM
// DLBL PAC7GT,'$XW..WGPR.GT',,VSAM
// DLBL PAC7G6,'$XW..WGPR.G6',,VSAM
// DLBL PAC7JG,'$XW..WGPR.JG',,VSAM
// DLBL PAC7KB,'$XW..WGPR.KB',,VSAM
// DLBL PAC7KD,'$XW..WGPR.KD',,VSAM
// DLBL PAC7KE,'$XW..WGPR.KE',,VSAM
// DLBL PAC7KF,'$XW..WGPR.KF',,VSAM
// DLBL PAC7KG,'$XW..WGPR.KG',,VSAM
// DLBL PAC7KM,'$XW..WGPR.KM',,VSAM
// DLBL PAC7KN,'$XW..WGPR.KN',,VSAM
// DLBL PAC7KP,'$XW..WGPR.KP',,VSAM
// DLBL PAC7KQ,'$XW..WGPR.KQ',,VSAM
// DLBL PAC7KR,'$XW..WGPR.KR',,VSAM
// DLBL PAC7KS,'$XW..WGPR.KS',,VSAM
// DLBL PAC7KU,'$XW..WGPR.KU',,VSAM
// DLBL PAC7KV,'$XW..WGPR.KV',,VSAM
// DLBL PAC7LG,'$PXU..SEQ.$PRO$PFI..OLDGL',,VSAM
// DLBL PAC7LI,'$XW..WGPR.LI',,VSAM

```

INSTALLATION

4.2 CATALOGING OF GPRT PROCEDURE

```

// DLBL PAC7LK,'$PXU..SEQ.$PRO$PFI..OLDGK' , ,VSAM
// DLBL PAC7ME,'$XW..WGPR INPUT' , ,VSAM
// DLBL PAC7MG,'$XW..WGPR MG' , ,VSAM
// DLBL PAC7SC,'$PXY..$PRO.$PRO.SC' , ,VSAM
// DLBL PAC7SG,'$PXY..$PRO.$PRO.SG' , ,VSAM
// DLBL PAC7SO,'$XW..WGPR SO' , ,VSAM
// DLBL PAC7SR,'$PXY..$PRO.$PRO.SR' , ,VSAM
// DLBL PAC7SS,'$PXY..$PRO.$PRO.SS' , ,VSAM
// DLBL PAC7W1,'$XW..WGPR W1' , ,VSAM
// DLBL PAC7W2,'$XW..WGPR W2' , ,VSAM
// DLBL PAC7W3,'$XW..WGPR W3' , ,VSAM
// DLBL PAC7W4,'$XW..WGPR W4' , ,VSAM
// DLBL PAC7W5,'$XW..WGPR W5' , ,VSAM
// DLBL PAC7W6,'$XW..WGPR W6' , ,VSAM
// DLBL PAC7W7,'$XW..WGPR W7' , ,VSAM
// DLBL PAC7W8,'$XW..WGPR W8' , ,VSAM
// DLBL PAC7W9,'$XW..WGPR W9' , ,VSAM
// DLBL SY8PAF,'$XW..WGPR SYSPAF' , ,VSAM
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// EXEC PACB,SIZE=(PACE80,250K)
/. JCLST05
* --- STEP 05 --- IDCAMS
// DLBL IJSYSUC,'$VCAP' , ,VSAM
// DLBL PAC7EB,'$XW..WGPR EB' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EE,'$XW..WGPR EE' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EG,'$XW..WGPR EG' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EN,'$XW..WGPR EN' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EP,'$XW..WGPR EP' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EQ,'$XW..WGPR EQ' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7ER,'$XW..WGPR ER' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7EV,'$XW..WGPR EV' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7GI,'$XW..WGPR GI' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7GM,'$XW..WGPR GM' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7GN,'$XW..WGPR GN' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7JG,'$XW..WGPR JG' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KB,'$XW..WGPR KB' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KD,'$XW..WGPR KD' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KE,'$XW..WGPR KE' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KF,'$XW..WGPR KF' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KG,'$XW..WGPR KG' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KM,'$XW..WGPR KM' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KN,'$XW..WGPR KN' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KP,'$XW..WGPR KP' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KQ,'$XW..WGPR KQ' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KR,'$XW..WGPR KR' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KS,'$XW..WGPR KS' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KU,'$XW..WGPR KU' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7KV,'$XW..WGPR KV' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7LI,'$XW..WGPR LI' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7ME,'$XW..WGPR INPUT' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7MG,'$XW..WGPR MG' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W1,'$XW..WGPR W1' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W2,'$XW..WGPR W2' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W3,'$XW..WGPR W3' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W4,'$XW..WGPR W4' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W6,'$XW..WGPR W6' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W7,'$XW..WGPR W7' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W8,'$XW..WGPR W8' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7W9,'$XW..WGPR W9' , ,VSAM,DISP=(,DELETE,DELETE)
// DLBL SY8PAF,'$XW..WGPR SYSPAF' , ,VSAM,DISP=(,DELETE,DELETE)
// EXEC IDCAMS,SIZE=AUTO
VERIFY FILE (PAC7EB)
VERIFY FILE (PAC7EE)
VERIFY FILE (PAC7EG)
VERIFY FILE (PAC7EN)
VERIFY FILE (PAC7EP)
VERIFY FILE (PAC7EQ)
VERIFY FILE (PAC7ER)
VERIFY FILE (PAC7EV)
VERIFY FILE (PAC7GI)
VERIFY FILE (PAC7GM)
VERIFY FILE (PAC7GN)
VERIFY FILE (PAC7JG)

```

INSTALLATION
4.2 CATALOGING OF GPRT PROCEDURE

```

VERIFY FILE (PAC7KB)
VERIFY FILE (PAC7KD)
VERIFY FILE (PAC7KE)
VERIFY FILE (PAC7KF)
VERIFY FILE (PAC7KG)
VERIFY FILE (PAC7KM)
VERIFY FILE (PAC7KN)
VERIFY FILE (PAC7KP)
VERIFY FILE (PAC7KQ)
VERIFY FILE (PAC7KR)
VERIFY FILE (PAC7KS)
VERIFY FILE (PAC7KU)
VERIFY FILE (PAC7KV)
VERIFY FILE (PAC7ME)
VERIFY FILE (PAC7MG)
VERIFY FILE (PAC7LI)
VERIFY FILE (PAC7W1)
VERIFY FILE (PAC7W2)
VERIFY FILE (PAC7W3)
VERIFY FILE (PAC7W4)
VERIFY FILE (PAC7W6)
VERIFY FILE (PAC7W7)
VERIFY FILE (PAC7W8)
VERIFY FILE (PAC7W9)
VERIFY FILE (SY8PAF)
/*
/. JCLST06
* --- STEP 06 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL IN,'$PXU..SEQ.$PRO$PFI..GL',,VSAM
// DLBL OUT,'$PXU..SEQ.$PRO$PFI..OLDGL',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE (IN) RUS
/*
/. JCLST07
* --- STEP 07 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL IN,'$PXU..SEQ.$PRO$PFI..GK',,VSAM
// DLBL OUT,'$PXU..SEQ.$PRO$PFI..OLDGK',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE (IN) RUS
/*
/+ 
/&
* $X E0J

```

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4.20. 4.3 CATALOGING OF PACX PROCEDURE

4.3 CATALOGING OF THE PACX PROCEDURE JCL

The JCL module '2PAC' executes, as a SLI member, the cataloging of the JCL for the generation-print procedure (PACX). This method is provided only in standard to complex and frequently used procedures; however, it can be extended to all VA Pac procedures.

INSTALLATION

4.3 CATALOGING OF PACX PROCEDURE

```

====MOD 2PAC
* $X JOB JNM=$PRFJ.2PAC,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.2PAC      ***** $PROD $PREL *****
*      EXTRACTION OF DATABASE VA PAC
/* ****
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
// DLBL $LSLI,'$SLIL',,VSAM
// EXEC LIBR,PARM='AC S=$LSLI$SLIS;CA PACX$PRO$PFI..$SLIT R=Y'
/* ****
*      EXTRACTIONS
/* ****
* $P SLI MEM=DBJB$PRO.$PFI..$SLIT
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..WPACX.INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
* $X DATA PACXDATA
* <----- INPUT STREAM
/*
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$XW..WPACX.SYSEXT',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE (SYSIPT) RUS
99999999999
/*
/. JCLST04
* --- STEP 04 --- PACX
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DLBL PAC7AN,'$PXU..$PRO.$PFI.AN',,VSAM
// DLBL PAC7AR,'$PXU..$PRO.$PFI.AR',,VSAM
// DLBL PAC7BM,'$XW..WPACX.BM',,VSAM
// DLBL PAC7GY,'$PXU..RPACX.GY',,VSAM
// DLBL PAC7MB,'$XW..WPACX.INPUT',,VSAM
// DLBL PAC7MJ,'$XW..WPACX.MJ',,VSAM
// DLBL PAC7MM,'$XW..WPACX.MM',,VSAM
// DLBL PAC7MR,'$PXU..RPACX.MR',,VSAM
// DLBL PAC7MV,'$PXU..RPACX.MV',,VSAM
// DLBL PAC7PJ,'$PXU..SEQ.$PRO$PFI..PJ',,VSAM
// DLBL PAC7RE,'$XW..WPACX.RE',,VSAM
// DLBL PAC7RM,'$XW..WPACX.RM',,VSAM
// DLBL PAC7TD,'$PXU..RPACX.TD',,VSAM
// DLBL PAC7UE,'$PXU..RPACX.UE',,VSAM
// DLBL PAC7WD,'$XW..WPACX.WD',,VSAM
// DLBL SY8EXT,'$XW..WPACX.SYSEXT',,VSAM
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// EXEC PACX,SIZE=(PACS30,250K)
/. JCLST05
* --- STEP 05 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7BM,'$XW..WPACX.BM',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7MJ,'$XW..WPACX.MJ',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7MM,'$XW..WPACX.MM',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7RE,'$XW..WPACX.RE',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7RM,'$XW..WPACX.RM',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7TE,'$XW..WPACX.TE',,VSAM,DISP=(,DELETE,DELETE)
// DLBL PAC7WD,'$XW..WPACX.WD',,VSAM,DISP=(,DELETE,DELETE)
// DLBL SY8EXT,'$XW..WPACX.SYSEXT',,VSAM,DISP=(,DELETE,DELETE)
// EXEC IDCAMS,SIZE=AUTO
VERIFY FILE (PAC7BM)
VERIFY FILE (PAC7MJ)
VERIFY FILE (PAC7MM)
VERIFY FILE (PAC7RE)
VERIFY FILE (PAC7RM)
VERIFY FILE (PAC7TE)
VERIFY FILE (PAC7WD)
VERIFY FILE (PAC7MB)
VERIFY FILE (SY8EXT)

```

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4.3 CATALOGING OF PACX PROCEDURE

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/*
/+
/&
* \$X EOJ

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4.21. 4.4 DEFINITION OF GPRT WORK FILES

4.4 DEFINITION OF THE GPRT WORK FILES

The JCL Module '2WGP' defines the GPRT work files which, being very numerous, would seriously impact system performance if they had to be defined each time. It also defines the PACSQL work file.

If '%' is used as the first character of the temporary file index (Job 'JOB2', parameter ===PRM XW), which allows simultaneous submission of GPRT in several partitions, the procedure '2WGP' should be performed in each partition where the procedures are to be executed. Because these files are defined with the NOALLOCATION option, they only take up disk space when they are being used.

INSTALLATION

4.4 DEFINITION OF GPRT WORK FILES

```

====MOD 2WGP
* $X JOB JNM=$PRFJ.2WGP,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.2WGP           ***** $PROD $PREL *****
*          GPRT WORK FILES DEFINITION
/* ***** $OPT *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- DEFINE GPRT WORK FILES
// DLBL IJSYSUC,'$VCAP',VSAM
// EXEC IDCAMS,SIZE=AUTO
/* --- DEFINE GPRT WORK FILE EB --- */
DEL      ($XW..WGPRT.EB) CL
DEF CL (NAME ($XW..WGPRT.EB) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EB.D) )
/* --- DEFINE GPRT WORK FILE EE --- */
DEL      ($XW..WGPRT.EE) CL
DEF CL (NAME ($XW..WGPRT.EE) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EE.D) )
/* --- DEFINE GPRT WORK FILE EG --- */
DEL      ($XW..WGPRT.EG) CL
DEF CL (NAME ($XW..WGPRT.EG) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EG.D) )
/* --- DEFINE GPRT WORK FILE EN --- */
DEL      ($XW..WGPRT.EN) CL
DEF CL (NAME ($XW..WGPRT.EN) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EN.D) )
/* --- DEFINE GPRT WORK FILE EP --- */
DEL      ($XW..WGPRT.EP) CL
DEF CL (NAME ($XW..WGPRT.EP) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EP.D) )
/* --- DEFINE GPRT WORK FILE EQ --- */
DEL      ($XW..WGPRT.EQ) CL
DEF CL (NAME ($XW..WGPRT.EQ) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.EQ.D) )
/* --- DEFINE GPRT WORK FILE ER --- */
DEL      ($XW..WGPRT.ER) CL
DEF CL (NAME ($XW..WGPRT.ER) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
        ) DATA(NAME ($XW..WGPRT.ER.D) )
/* --- DEFINE GPRT WORK FILE EV --- */
DEL      ($XW..WGPRT.EV) CL
DEF CL (NAME ($XW..WGPRT.EV) -

```

INSTALLATION

4.4 DEFINITION OF GPRT WORK FILES

```

        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.EV.D) )
/* --- DEFINE GPRT WORK FILE GI --- */
DEL ($XW..WGPRT.GI) CL
DEF CL (NAME ($XW..WGPRT.GI) -
        MODEL($MODELF) -
        REC (6000 6000) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
    ) DATA(NAME ($XW..WGPRT.GI.D) )
/* --- DEFINE GPRT WORK FILE GM --- */
DEL ($XW..WGPRT.GM) CL
DEF CL (NAME ($XW..WGPRT.GM) -
        MODEL($MODELF) -
        REC (6000 6000) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
    ) DATA(NAME ($XW..WGPRT.GM.D) )
/* --- DEFINE GPRT WORK FILE GN --- */
DEL ($XW..WGPRT.GN) CL
DEF CL (NAME ($XW..WGPRT.GN) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(265 265) -
        RECFM(FB(265)) -
    ) DATA(NAME ($XW..WGPRT.GN.D) )
/* --- DEFINE GPRT WORK FILE GO --- */
DEL ($XW..WGPRT.GO) CL
DEF CL (NAME ($XW..WGPRT.GO) -
        MODEL($MODELF) -
        REC (6000 6000) -
        RECSZ(204 204) -
        RECFM(FB(204)) -
    ) DATA(NAME ($XW..WGPRT.GO.D) )
/* --- DEFINE GPRT WORK FILE GT --- */
DEL ($XW..WGPRT.GT) CL
DEF CL (NAME ($XW..WGPRT.GT) -
        MODEL($MODELF) -
        REC (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.GT.D) )
/* --- DEFINE GPRT WORK FILE INPUT --- */
DEL ($XW..WGPRT.INPUT) CL
DEF CL (NAME ($XW..WGPRT.INPUT) -
        MODEL($MODELF) -
        REC (0010 0010) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
    ) DATA(NAME ($XW..WGPRT.INPUT.D) )
/* --- DEFINE GPRT WORK FILE JG --- */
DEL ($XW..WGPRT.JG) CL
DEF CL (NAME ($XW..WGPRT.JG) -
        MODEL($MODELF) -
        REC (6000 6000) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
    ) DATA(NAME ($XW..WGPRT.JG.D) )
/* --- DEFINE GPRT WORK FILE KB --- */
DEL ($XW..WGPRT.KB) CL
DEF CL (NAME ($XW..WGPRT.KB) -
        MODEL($MODELF) -
        REC (6000 6000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.KB.D) )
/* --- DEFINE GPRT WORK FILE KD --- */
DEL ($XW..WGPRT.KD) CL
DEF CL (NAME ($XW..WGPRT.KD) -
        MODEL($MODELF) -

```

INSTALLATION

4.4 DEFINITION OF GPRT WORK FILES

```

REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KD.D) )
/* --- DEFINE GPRT WORK FILE KE --- */
DEL ($XW..WGPRT.KE) CL
DEF CL (NAME ($XW..WGPRT.KE) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KE.D) )
/* --- DEFINE GPRT WORK FILE KF --- */
DEL ($XW..WGPRT.KF) CL
DEF CL (NAME ($XW..WGPRT.KF) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KF.D) )
/* --- DEFINE GPRT WORK FILE KG --- */
DEL ($XW..WGPRT.KG) CL
DEF CL (NAME ($XW..WGPRT.KG) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KG.D) )
/* --- DEFINE GPRT WORK FILE KM --- */
DEL ($XW..WGPRT.KM) CL
DEF CL (NAME ($XW..WGPRT.KM) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KM.D) )
/* --- DEFINE GPRT WORK FILE KN --- */
DEL ($XW..WGPRT.KN) CL
DEF CL (NAME ($XW..WGPRT.KN) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KN.D) )
/* --- DEFINE GPRT WORK FILE KP --- */
DEL ($XW..WGPRT.KP) CL
DEF CL (NAME ($XW..WGPRT.KP) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KP.D) )
/* --- DEFINE GPRT WORK FILE KQ --- */
DEL ($XW..WGPRT.KQ) CL
DEF CL (NAME ($XW..WGPRT.KQ) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KQ.D) )
/* --- DEFINE GPRT WORK FILE KR --- */
DEL ($XW..WGPRT.KR) CL
DEF CL (NAME ($XW..WGPRT.KR) -
MODEL($MODELF) -
REC (6000 6000) -
RECSZ(180 180) -
RECFM(FB(180)) -
) DATA(NAME ($XW..WGPRT.KR.D) )
/* --- DEFINE GPRT WORK FILE KS --- */
DEL ($XW..WGPRT.KS) CL
DEF CL (NAME ($XW..WGPRT.KS) -
MODEL($MODELF) -
REC (6000 6000) -

```

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4.4 DEFINITION OF GPRT WORK FILES

```

        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.KS.D) )
/* --- DEFINE GPRT WORK FILE KU --- */
DEL      ($XW..WGPRT.KU) CL
DEF CL (NAME ($XW..WGPRT.KU) -
        MODEL($MODELF) -
        REC   (6000 6000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.KU.D) )
/* --- DEFINE GPRT WORK FILE KV --- */
DEL      ($XW..WGPRT.KV) CL
DEF CL (NAME ($XW..WGPRT.KV) -
        MODEL($MODELF) -
        REC   (6000 6000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.KV.D) )
/* --- DEFINE GPRT WORK FILE LI --- */
DEL      ($XW..WGPRT.LI) CL
DEF CL (NAME ($XW..WGPRT.LI) -
        MODEL($MODELF) -
        REC   (6000 6000) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
    ) DATA(NAME ($XW..WGPRT.LI.D) )
/* --- DEFINE GPRT WORK FILE MG --- */
DEL      ($XW..WGPRT.MG) CL
DEF CL (NAME ($XW..WGPRT.MG) -
        MODEL($MODELF) -
        REC   (3000 3000) -
        RECSZ(150 150) -
        RECFM(FB(150)) -
    ) DATA(NAME ($XW..WGPRT.MG.D) )
/* --- DEFINE GPRT WORK FILE SO --- */
DEL      ($XW..WGPRT.SO) CL
DEF CL (NAME ($XW..WGPRT.SO) -
        MODEL($MODELF) -
        REC   (6000 6000) -
        RECSZ(312 312) -
        RECFM(FB(312)) -
    ) DATA(NAME ($XW..WGPRT.SO.D) )
/* --- DEFINE GPRT WORK FILE SYSPAF --- */
DEL      ($XW..WGPRT.SYSPAF) CL
DEF CL (NAME ($XW..WGPRT.SYSPAF) -
        SHR(2 3) RUS NAL KEYS(12 0) -
        REC   (1000 1000) -
        RECSZ(170 468) -
        VOL($VOLWK) -
    ) INDEX(NAME ($XW..WGPRT.SYSPAF.I) -
    ) DATA (NAME ($XW..WGPRT.SYSPAF.D) CISZ(8192) )
/* --- DEFINE GPRT WORK FILE W1 --- */
DEL      ($XW..WGPRT.W1) CL
DEF CL (NAME ($XW..WGPRT.W1) -
        MODEL($MODELF) -
        REC   (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.W1.D) )
/* --- DEFINE GPRT WORK FILE W2 --- */
DEL      ($XW..WGPRT.W2) CL
DEF CL (NAME ($XW..WGPRT.W2) -
        MODEL($MODELF) -
        REC   (2000 2000) -
        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.W2.D) )
/* --- DEFINE GPRT WORK FILE W3 --- */
DEL      ($XW..WGPRT.W3) CL
DEF CL (NAME ($XW..WGPRT.W3) -
        MODEL($MODELF) -
        REC   (2000 2000) -

```

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4.4 DEFINITION OF GPRT WORK FILES

```

        RECSZ(180 180) -
        RECFM(FB(180)) -
    ) DATA(NAME ($XW..WGPRT.W3.D) )
/* --- DEFINE GPRT WORK FILE W4 --- */
DEL      ($XW..WGPRT.W4) CL
DEF CL (NAME ($XW..WGPRT.W4) -
        MODEL($MODELF) -
        REC   (5000 5000) -
        RECSZ(090 090) -
        RECFM(FB(090)) -
    ) DATA(NAME ($XW..WGPRT.W4.D) )
/* --- DEFINE GPRT WORK FILE W6 --- */
DEL      ($XW..WGPRT.W6) CL
DEF CL (NAME ($XW..WGPRT.W6) -
        MODEL($MODELF) -
        REC   (2000 2000) -
        RECSZ(308 308) -
        RECFM(FB(308)) -
    ) DATA(NAME ($XW..WGPRT.W6.D) )
/* --- DEFINE GPRT WORK FILE W7 --- */
DEL      ($XW..WGPRT.W7) CL
DEF CL (NAME ($XW..WGPRT.W7) -
        MODEL($MODELF) -
        REC   (2000 2000) -
        RECSZ(308 308) -
        RECFM(FB(308)) -
    ) DATA(NAME ($XW..WGPRT.W7.D) )
/* --- DEFINE GPRT WORK FILE W8 --- */
DEL      ($XW..WGPRT.W8) CL
DEF CL (NAME ($XW..WGPRT.W8) -
        MODEL($MODELF) -
        REC   (2000 2000) -
        RECSZ(308 308) -
        RECFM(FB(308)) -
    ) DATA(NAME ($XW..WGPRT.W8.D) )
/* --- DEFINE GPRT WORK FILE W9 --- */
DEL      ($XW..WGPRT.W9) CL
DEF CL (NAME ($XW..WGPRT.W9) -
        MODEL($MODELF) -
        REC   (9000 9000) -
        RECSZ(055 055) -
        RECFM(FB(055)) -
    ) DATA(NAME ($XW..WGPRT.W9.D) )

/*
// EXEC LISTLOG
/&
* $X EOJ

```

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4.22. 4.5 DEFINITION OF PACX WORK FILES

4.5 DEFINITION OF THE PACX WORK FILES

The JCL module '2WPA' defines the PACX work files which, being very numerous, would seriously impact system performance if they had to be defined each time.

If '%' is used as the first character of the temporary file index (job JOB2, parameter ===PRM XW), which allows simultaneous submission of GPRT in several partitions, the '2WPA' procedure should be performed in each partition where the procedures are to be executed. Because these files are to be defined with the 'NOALLOCATION' option, they only take up disk space when they are being used.

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4.5 DEFINITION OF PACX WORK FILES

```

====MOD 2WPA
* $X JOB JNM=$PRFJ.2WPA,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.2WPA ***** $PROD $PREL *****
* PACX WORK FILES DEFINITION
/* ***** $PROD $PREL *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- DEFINE DES FICHIERS DE TRAVAIL PACX
// DLBL IJSYSUC,'$VCAP',VSAM
// EXEC IDCAMS,SIZE=AUTO
/* --- DEFINE GPRT WORK FILE BM --- */
DEL ($XW..WPACX.BM) CL
DEF CL (NAME ($XW..WPACX.BM) -
        MODEL($MODELF) -
        REC (0010 0010) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
        ) DATA(NAME ($XW..WPACX.BM.D) )
/* --- DEFINE GPRT WORK FILE INPUT --- */
DEL ($XW..WPACX.INPUT) CL
DEF CL (NAME ($XW..WPACX.INPUT) -
        MODEL($MODELF) -
        REC (0010 0010) -
        RECSZ(080 080) -
        RECFM(FB(080)) -
        ) DATA(NAME ($XW..WPACX.INPUT.D) )
/* --- DEFINE GPRT WORK FILE MJ --- */
DEL ($XW..WPACX.MJ) CL
DEF CL (NAME ($XW..WPACX.MJ) -
        MODEL($MODELF) -
        REC (1000 1000) -
        RECSZ(152 152) -
        RECFM(FB(152)) -
        ) DATA(NAME ($XW..WPACX.MJ.D) )
/* --- DEFINE GPRT WORK FILE MM --- */
DEL ($XW..WPACX.MM) CL
DEF CL (NAME ($XW..WPACX.MM) -
        MODEL($MODELF) -
        REC (1000 1000) -
        RECSZ(055 055) -
        RECFM(FB(055)) -
        ) DATA(NAME ($XW..WPACX.MM.D) )
/* --- DEFINE GPRT WORK FILE RE --- */
DEL ($XW..WPACX.RE) CL
DEF CL (NAME ($XW..WPACX.RE) -
        MODEL($MODELF) -
        REC (1000 1000) -
        RECSZ(012 012) -
        RECFM(FB(012)) -
        ) DATA(NAME ($XW..WPACX.RE.D) )
/* --- DEFINE GPRT WORK FILE RM --- */
DEL ($XW..WPACX.RM) CL
DEF CL (NAME ($XW..WPACX.RM) -
        MODEL($MODELF) -
        REC (1000 1000) -
        RECSZ(167 167) -
        RECFM(FB(167)) -
        ) DATA(NAME ($XW..WPACX.RM.D) )
/* --- DEFINE GPRT WORK FILE SYSEXT --- */
DEL ($XW..WPACX.SYSEXT) CL
DEF CL (NAME ($XW..WPACX.SYSEXT) -
        SHR(2 3) RUS NAL KEYS(12 0) -
        REC (1000 1000) -
        RECSZ(112 112) -
        VOL($VOLWK) -
        ) INDEX(NAME ($XW..WPACX.SYSEXT.I) -
        ) DATA (NAME ($XW..WPACX.SYSEXT.D) CISZ(8192) )
--- DEFINE GPRT WORK FILE TE --- */
DEL ($XW..WPACX.TE) CL

```

INSTALLATION

4.5 DEFINITION OF PACX WORK FILES

```
DEF CL (NAME ($XW..WPACX.TE) -
         MODEL($MODELF) -
         REC (1000 1000) -
         RECSZ(180 180) -
         RECFM(FB(180)) -
         ) DATA(NAME ($XW..WPACX.TE.D) )
/* ---- DEFINE GPRT WORK FILE WD --- */
DEL      ($XW..WPACX.WD) CL
DEF CL (NAME ($XW..WPACX.WD) -
         MODEL($MODELF) -
         REC (1000 1000) -
         RECSZ(167 167) -
         RECFM(FB(167)) -
         ) DATA(NAME ($XW..WPACX.WD.D) )
/*
// EXEC LISTLOG
/&
* $X EOJ
```

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4.23. 4.6 INSTALLATION OF EXECUTABLE MODULES

4.6 INSTALLATION OF EXECUTABLE MODULES

Execute job '2PHA'.

INSTALLATION

4.6 INSTALLATION OF EXECUTABLE MODULES

```

====MOD 2PHA
* $X JOB JNM=$PRFJ.2PHA,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.2PHA      ***** $PROD $PREL *****
*   MODULE INSTALLATION          (RESTORE)
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
// DLBL $LMODO,'$MODO',,VSAM
/* GOTO JCLSTXX
* --- STEP 1 --- LIBR
// ASSGN SYS004,$TAP1
// PAUSE MOUNT TAPE $TAPEI ON $TAP1
// MTC REW,SYS004
// MTC FSF,SYS004,20
// EXEC LIBR
ACCESS SUBLIB=$LMODO$SMODB
RENAME $PRO.*.PHASE:D2*.PHASE
RESTORE -
CGI.LB.PACA05.PHASE:$LMODB$SMODB -
CGI.LB.PACA10.PHASE:$LMODB$SMODB -
CGI.LB.PACA15.PHASE:$LMODB$SMODB -
CGI.LB.PACA20.PHASE:$LMODB$SMODB -
CGI.LB.PACB.PHASE:$LMODB$SMODB -
CGI.LB.PACB30.PHASE:$LMODB$SMODB -
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CGI.LB.PACL93.PHASE:$LMODB$SMODB -
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CGI.LB.PACP80.PHASE:$LMODB$SMODB -

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INSTALLATION**4.6 INSTALLATION OF EXECUTABLE MODULES**

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CGI.LB.PACR90.PHASE:$LMODB$SMODB -
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CGI.LB.PACSPU.PHASE:$LMODB$SMODB -
CGI.LB.PACSRM.PHASE:$LMODB$SMODB -
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CGI.LB.PACS75.PHASE:$LMODB$SMODB -
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CGI.LB.PAN270.PHASE:$LMODB$SMODB -
CGI.LB.PAN280.PHASE:$LMODB$SMODB -
====SEQ
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CGI.LB.PBBT98.PHASE:$LMODB$SMODB -
====SEQ FOR PACTR
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CGI.LB.PDS610.PHASE:$LMODB$SMODB -
====SEQ
CGI.LB.PREI00.PHASE:$LMODB$SMODB -
CGI.LB.PREI40.PHASE:$LMODB$SMODB -
CGI.LB.PREI50.PHASE:$LMODB$SMODB -
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CGI.LB.PTAR20.PHASE:$LMODB$SMODB -
CGI.LB.PTASVD.PHASE:$LMODB$SMODB -
====SEQ
====SEQ FOR TEAM
CGI.LB.PTC010.PHASE:$LMODB$SMODB -
CGI.LB.PTC030.PHASE:$LMODB$SMODB -

```

INSTALLATION**4.6 INSTALLATION OF EXECUTABLE MODULES**

```

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CGI.LB.PTC220.PHASE:$LMODB$SMODB -
CGI.LB.PTC400.PHASE:$LMODB$SMODB -
CGI.LB.PTC440.PHASE:$LMODB$SMODB -
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CGI.LB.PTED60.PHASE:$LMODB$SMODB -
CGI.LB.PTEP90.PHASE:$LMODB$SMODB -
CGI.LB.PTEXD0.PHASE:$LMODB$SMODB -
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CGI.LB.PTEX80.PHASE:$LMODB$SMODB -
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CGI.LB.PTUCR1.PHASE:$LMODB$SMODB -
CGI.LB.PTUCR2.PHASE:$LMODB$SMODB -
CGI.LB.PTUCSS.PHASE:$LMODB$SMODB -
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CGI.LB.PTUG10.PHASE:$LMODB$SMODB -
CGI.LB.PTUG11.PHASE:$LMODB$SMODB -
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CGI.LB.PTUG61.PHASE:$LMODB$SMODB -
CGI.LB.PTUG90.PHASE:$LMODB$SMODB -
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CGI.LB.PTU815.PHASE:$LMODB$SMODB -

```

INSTALLATION**4.6 INSTALLATION OF EXECUTABLE MODULES**

```

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CGI.LB.PTU855.PHASE:$LMODB$SMODE -
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CGI.LB.PTU908.PHASE:$LMODB$SMODE -
====SEQ
====SEQ FOR VISP
CGI.LB.PVA100.PHASE:$LMODB$SMODE -
CGI.LB.PVA110.PHASE:$LMODB$SMODE -
CGI.LB.PVA300.PHASE:$LMODB$SMODE -
CGI.LB.PVA305.PHASE:$LMODB$SMODE -
CGI.LB.PVA310.PHASE:$LMODB$SMODE -
CGI.LB.PVA320.PHASE:$LMODB$SMODE -
CGI.LB.PVA400.PHASE:$LMODB$SMODE -
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CGI.LB.REP2PJ.PHASE:$LMODB$SMODE -
====SEQ
CGI.LB.UTIXSR.PHASE:$LMODB$SMODE -
====SEQ FOR PUF
CGI.LB.D2FANM.PHASE:$LMODO$SMODO -
CGI.LB.D2FBIB.PHASE:$LMODO$SMODO -
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CGI.LB.D2PA33.PHASE:$LMODO$SMODO -
CGI.LB.D2PA34.PHASE:$LMODO$SMODO -
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CGI.LB.D2QB00.PHASE:$LMODO$SMODO -
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CGI.LB.D2QF10.PHASE:$LMODO$SMODO -
CGI.LB.D2QG00.PHASE:$LMODO$SMODO -
CGI.LB.D2QH00.PHASE:$LMODO$SMODO -

```

INSTALLATION**4.6 INSTALLATION OF EXECUTABLE MODULES**

```

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CGI.LB.D2QH20.PHASE:$LMODO$SMODO -
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CGI.LB.D2QI01.PHASE:$LMODO$SMODO -
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CGI.LB.D2QY20.PHASE:$LMODO$SMODO -
CGI.LB.D2QY30.PHASE:$LMODO$SMODO -
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CGI.LB.D2Q000.PHASE:$LMODO$SMODO -
CGI.LB.D2Q100.PHASE:$LMODO$SMODO -
CGI.LB.D2Q101.PHASE:$LMODO$SMODO -

```

INSTALLATION**4.6 INSTALLATION OF EXECUTABLE MODULES**

```
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CGI.LB.D2Q800.PHASE:$LMODO$SMODO -
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CGI.LB.D2R000.PHASE:$LMODO$SMODO -
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CGI.LB.D2R980.PHASE:$LMODO$SMODO -
CGI.LB.D2TPST.PHASE:$LMODO$SMODO -
CGI.LB.D2TPWS.PHASE:$LMODO$SMODO -
CGI.LB.D2UCTA.PHASE:$LMODO$SMODO -
CGI.LB.D2UCTR.PHASE:$LMODO$SMODO -
CGI.LB.D2UCTX.PHASE:$LMODO$SMODO -
TAPE=SYS004 REPLACE=Y SCAN=NO
ACCESS SUBLIB=$LMODO$SMODO
RENAME D2*.PHASE:$PRO.*.PHASE
/*
// EXEC LISTLOG
/&
* $X EOJ
==SEQ
```

	PAGE	146
INSTALLATION	4	
4.7 LOADING OF SYSTEM FILES	24	

4.24. 4.7 LOADING OF SYSTEM FILES

4.7 LOADING OF THE SYSTEM FILES

The JCL Module '3SYS' contains the JCL to define and load the following system files:

SC	:	Batch program generation skeleton file
SG	:	On-line program generation skeleton file
SR	:	COBOL generator skeleton file
AE0	:	VA PAC error messages database
SP	:	Variable skeleton file (PAF Extension)
SF	:	Fixed skeleton file (PAF Extension)
SS	:	Skeleton file of the Client/Server generator
VGE	:	Visualage Dictionary
TCO	:	TeamConnection Dictionary

INSTALLATION

4.7 LOADING OF SYSTEM FILES

```

====MOD 3SYS
* $X JOB JNM=$PRFJ.3SYS,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.3SYS      ***** $PROD $PREL *****
* PACBASE SYSTEM FILES INITIALIZATION AND LOADING      *
/* ***** $PROD $PREL *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* -- STEP 01 --- DEFINE PACBASE SYSTEM VSAM FILES
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=D$PRO.$PRO.AE0.$SLIT
* $X SLI MEM=D$PRO.$PRO.VGE.$SLIT
* $X SLI MEM=D$PRO.$PRO.TCO.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SC.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SF.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SG.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SP.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SR.$SLIT
* $X SLI MEM=DF$PRO.$PRO.SS.$SLIT
/*
/. JCLST02
* -- STEP 02 --- UNLOAD SKELETON FILE FOR BATCH GENERATION
// DLBL IJSYSUC,'$VCAP',,VSAM
// ASSGN SYS004,$TAP1
// PAUSE MOUNT TAPE $TAPEI ON $TAP1
MTC REW,SYS004
MTC FSF,SYS004,3
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SC',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (3204) -
BLKSZ($BLKSC) NLBL)) -
OFILE (OUT) RUS
/*
/. JCLST03
* -- STEP 03 --- UNLOAD SKELETON FILE FOR ONLINE GENERATION
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,4
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SG',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (4605) -
BLKSZ($BLKSG) NLBL)) -
OFILE (OUT) RUS
/*
/. JCLST04
* -- STEP 04 --- UNLOAD SKELETON FILE FOR COBOL GENERATOR
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,5
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SR',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (4605) -
BLKSZ($BLKSR) NLBL)) -
OFILE (OUT) RUS
/*
/. JCLST05
* -- STEP 05 --- UNLOAD ERROR MESSAGES FILE
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,6
// TLBL IN
// DLBL OUT,'$PXY..SEQ.$PRO$PRO..AE0',,VSAM
// DLBL OUT2,'$PXY..$PRO.$PRO.AE',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (80) -
BLKSZ($BLKAE) NLBL)) -

```

INSTALLATION
4.7 LOADING OF SYSTEM FILES

4
24

```

        OFILE (OUT) RUS
REPRO IFILE(OUT) OFILE(OUT2) REP
/*
/. JCLST06
* --- STEP 06 --- UNLOAD SKELETON FOR PAF-PDM EXTENSION
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,8
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (4605) -
BLKSZ($BLKSP) NLBL)) -
OFILE (OUT) RUS

/*
/. JCLST07
* --- STEP 07 --- UNLOAD FIXED SKELETON FOR PAF-PDM EXTENSION
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,9
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SF',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (119) -
BLKSZ($BLKSF) NLBL)) -
OFILE (OUT) RUS

/*
/. JCLST08
* --- STEP 08 --- UNLOAD SERVER/REQUESTER SKELETON FILE
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,10
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.SS',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (4605) -
BLKSZ($BLKSS) NLBL)) -
OFILE (OUT) RUS

/*
/. JCLST09
* --- STEP 09 --- UNLOAD VISUALAGE DICTIONARY
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,18
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.VGE',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (117) -
BLKSZ($BLKVG) NLBL)) -
OFILE (OUT) RUS

/*
/. JCLST10
* --- STEP 10 --- UNLOAD TEAMCONNECTION DICTIONARY
// DLBL IJSYSUC,'$VCAP',,VSAM
MTC REW,SYS004
MTC FSF,SYS004,19
// TLBL IN
// DLBL OUT,'$PXY..$PRO.$PRO.TCO',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO IFILE (IN ENV (PDEV (2400) RECFM(FB) RECSZ (117) -
BLKSZ($BLKTC) NLBL)) -
OFILE (OUT) RUS

/*
// EXEC LISTLOG
/&
* $X EOJ

```

4.25. 4.8 LOADING OF USER FILES

4.8 LOADING OF USER FILES

The JCL module '3USR' contains the initialization JCL of some user files:

AP : user parameters
PA : work file (PAF)
GS : extraction paths

INSTALLATION

4.8 LOADING OF USER FILES

```

====MOD 3USR
* $X JOB JNM=$PRFJ.3USR,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.3USR      ***** $PROD $PREL *****
*   INITIALIZATION/UNLOADING OF PACBASE USER FILES
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 1 --- INITIALIZE AP FILE
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$PXY..$PRO.$PRO.AP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT) RUS
9999999
/*
/. JCLST02
* --- STEP 2 --- INITIALIZE PA FILE
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$PXY..$PRO.$PRO.PA',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT) RUS
9999999999999
/*
/. JCLST03
* --- STEP 3 --- INITIALIZE GS FILE
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$PXU..$PRO.$PRO.GS',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT) RUS
9999999999999999999999999
/*
// EXEC LISTLOG
/&
* $X EOJ

```

4.26. 4.9 LOADING OF ERROR MESSAGES

4.9 LOADING OF USER ERROR MESSAGES AND PARAMETER FILES

This is done via the PARM procedure.

```
*****  
IMPORTANT - IMPORTANT - IMPORTANT - IMPORTANT - IMPORTANT -  
*****
```

FOR A PROPER OPERATION OF THE SYSTEM, VA PAC MUST CONTAIN
AT LEAST THE FOLLOWING USER PARAMETERS:

- USER CODE
- VA PAC ACCESS KEY

Default entries provided include:

- One NU line: common user code with all database access rights.

Name: TEST - Password: (blank)

This code is used to perform the installation tests and should be deleted
once the user code for the manager of the PABASE database(s) is
entered.

- One NK line: INSERT HERE THE VA PAC ACCESS KEY PROVIDED
WITH THE INSTALLATION LEAFLET.

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4.9 LOADING OF ERROR MESSAGES	26	

WORKSTATION OPERATION: CHOICE OF METHODOLOGY
PARAMETERS

Specify the parameters corresponding to the methodology or methodologies used with the site's Workstation installation.

Update transactions are found in the JCL '9DSP'.

The various versions of these user entities are selected via the MER, YSM, SSA, IFW and OMT variants, in the MM1JCL utility commands.

In case of an erroneous selection of no variant, or too many variants, run the JOB2 installation job again, with the proper ===SELV cards and the ===SELM 9DSP card.

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4.27. 5.1 LOADING OF TEST DATABASE

5.1 LOADING OF THE TEST DATABASE

Job '5TPC' performs the loading of the test database backup provided with the product. This database must then be restored using the REST procedure.

This test database is provided for a limited number of initial operation tests only.

INSTALLATION
5.1 LOADING OF TEST DATABASE

```

====MOD 5TPC
* $X JOB JNM=$PRFJ.5TPC,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.5TPC      ***** $PROD $PREL *****
*          LOADING THE VA Pacbase TEST DATABASE
/* ***** $PROD $PREL *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=DF$PRO.$PFI.PC.$SLIT
/*
/. JCLST02
* --- STEP 01 --- MOUNT INSTALLATION TAPE
// DLBL IJSYSUC,'$VCAP',,VSAM
// ASSGN SYS004,$TAP1
// PAUSE MOUNT PACBASE TAPE $TAPE1 ON $TAP1
MTC REW,SYS004
MTC FSF,SYS004,7
// TLBL IN
// DLBL OUT,'$PXU..SEQ.$PRO$PFI..NEWPC,,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO INFILE (IN ENV (PDEV (2400) RECFM(VB) RECSZ (155) -
BLKSZ($BLKPC) NLBL)) -
OUTFILE (OUT)
/*
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PC.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ

```

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4.28. 5.2 INITIALIZATION OF GENERATION-PRINT REQUESTS

5.2 INITIALIZATION OF THE GENERATION-PRINT REQUESTS

This is performed via the execution of the REAG procedure with an initialization command of the AG file (AGI).

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4.29. 5.3 INITIALIZATION OF PEI MODULE

5.3 INITIALIZATION OF THE PEI FUNCTION

For the PEI Function only, initialization is performed by running the INPE procedure, followed by the RSPE procedure.

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4.30. 6.1 COMPLEMENT: VISUAL DICTIONARY INSTALLATION

6.1 INITIALIZATION OF THE VISUAL DICTIONARY

Loading of the Visual objects as user entities in the VA PAC Dictionary is performed through the VINS procedure.
This is to be carried out only by users of the VISP variant.

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4.31. 6.2.1 COMPLEMENT: PAF ENVIRONMENT

6.2.1 CREATION OF THE PAF DICTIONARY

The '9PAF' JCL module contains the VA PAC transactions that should be specified as input for the UPDT procedure, in order to copy the PAF dictionary standard entities into your own database. This dictionary will be used to develop PAF queries.

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4.32. 6.2.2 COMPLEMENT: PAF+ EXTENSION

6.2.2 COMPLEMENT: PAF+ EXTENSION

The following elements must be installed in order to operate the PAF+ Extension:

- . User Entity .PPTEX
- . SP and SF skeleton files
- . GS user file containing the Extraction Master Paths

User definition of an Extraction Master Path is done through an occurrence of the User entity (UE).

This UE is copied by the installation process in the '9XPD' JCL module.

This member contains BATCH transactions which will be input in the Database via the UPDT batch update procedure.

Once you have chosen a library to host the UE, modify the PAFPTEX member with a text editor by filling in the '*' line located at the beginning of the transactions, then execute the UPDT procedure.

The PAF skeletons are installed as a default. They are:

- . SP, which translates the User Entity Occurrence into PAF queries.
- . SF, which generates a COBOL program. This program, once translated by the PAFP10 program, will be a User Extractor or a Macro-Command called in the Master Outline.

The GS file contains the user Extraction Master Paths.

An example of an execution JCL for a User Extractor can be found in the PAFX JCL module described thereafter.

INSTALLATION

6.2.2 COMPLEMENT: PAF+ EXTENSION

```

* EXAMPLE OF PAF+ USER EXTRACTOR
/* SUBSTITUTIONS TO BE MADE
/* %EXTRAC = EXTRACTOR CODE
/* %RECSZ = RECORDSIZE OF EXTRACTED FILE PAC7SQ
/* INPUT : COMMAND FOR THE EXTRACTION
/* COL. 2 : 'X'
/* COL. 3 : PAF CURSOR CODE
/* COL. 7 : UEO CODE
/* COL. 15 : BEGIN-DELIMITER
/* COL. 23 : END-DELIMITER
/* COL. 31 : DEBUG TYPE (0 OR 1)
/* COL. 32 : NUMBER OF PAF BUFFERS
/* ****
/. JCLST01
* --- STEP 01 --- IDCAMS
// DBLB IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
/* --- DEFINE "INPUT" TEMPORARY FILE ---
DEL ($XW..W$MODUL..INPUT) CL PURGE
DEF CL (NAME ($XW..W$MODUL..INPUT) -
        MODEL($MODELF) -
        REC (200 200) -
        DATA (NAME ($XW..W$MODUL..INPUT.D) )
/* --- DEFINE SO TEMPORARY FILE ---
DEL ($PXU..R$MODUL..SO) CL PURGE
DEF CL (NAME ($PXU..R$MODUL..SO) -
        MODEL($MODELF) -
        REC (100 100) -
        RECSZ(436 436) -
        RECFM(FB(436)) -
        DATA (NAME ($PXU..R$MODUL..SO.D) )
/* --- DEFINE SO TEMPORARY FILE ---
DEL ($PXU..R$MODUL..SQ) CL PURGE
DEF CL (NAME ($PXU..R$MODUL..SQ) -
        MODEL($MODELF) -
        REC (100 100) -
        RECSZ(%RECSZ %RECSZ) -
        RECFM(FB(%RECSZ)) -
        DATA (NAME ($PXU..R$MODUL..SQ.D) )
* $X SLI MEM=DFSYSPAF.$SLIT
/*
/. JCLST02
* --- STEP 02 --- IDCAMS
// DBLB IJSYSUC,'$VCAP',,VSAM
// DBLB OUT,'$XW..SYSPAF',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT) RUS
99999999999
/*
* --- STEP 03 --- PTU001
// DBLB IJSYSUC,'$VCAP',,VSAM
// DBLB PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
*USER    PASSWORDLIB
XTTTTCCCCCCCCBBBBBBBEEEEEEE1000100
/*
/. JCLST04
* --- STEP 04 --- %EXTRAC
// DBLB IJSYSUC,'$VCAP',,VSAM
// DBLB PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DBLB PAC7AN,'$PXU..$PRO.$PFI.AN',,VSAM
// DBLB PAC7AR,'$PXU..$PRO.$PFI.AR',,VSAM
// DBLB SY8PAF,'$XW..SYSPAF',,VSAM
// DBLB PAC7MB,'$XW..W$MODUL..INPUT',,VSAM,DISP=(,DELETE,KEEP)
// DBLB PAC7SO,'$PXU..R$MODUL..SO',,VSAM
// DBLB PAC7SQ,'$PXU..R$MODUL..SQ',,VSAM
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// EXEC %EXTRAC,SIZE=(AUTO,50K)
/*
/. STEPEND
* --- STEP 05 --- IDCAMS
// DBLB IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO

```

INSTALLATION
6.2.2 COMPLEMENT: PAF+ EXTENSION

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```
DEL      ($XW..W$MODUL..INPUT) CL
DEL      ($XW..SYSPAF)       CL
/*
```

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4.33. 6.3 COMPLEMENT: WORKSTATION

6.3 CREATION OF WORKSTATION USER ENTITIES

The JCL Module '9DSG' contains the VA PAC transactions to be used as input to the UPDT procedure, before the VA PAC WorkStation is used.

There are three 'versions' of these user entities. They are selected by the 'MER', 'YSM or 'SSA' variant, in the MM1JCL commands.

If, by mistake, neither variant or more than one variant were selected, re-run the installation job 'JOB2' with the appropriate ===SELV cards and the ===SELM 9DSG card.

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4.34. 6.4 COMPLEMENT: PACBENCH QUALITY CONTROL

6.4 PACBENCH QUALITY CONTROL CREATION OF THE COMPILED QUALITY RULE FILE

The JCL module '9PQR' contains a set of compiled standard quality rules. This file can be copied onto a SAM-ESDS file, with a fixed length of 80, to be used in the PQCA quality control procedure (step 4, DLBL name PACQMF).

INSTALLATION OF THE USER ENTITY

The PERSONALIZATION option of the PACBENCH QUALITY CONTROL Function requires, for its operation, that a certain User Entity be present in the Database.

This User Entity is provided with the installation package, in the '9PQU' JCL module, in the form of batch transactions which should be copied in the Database via the UPDT batch update procedure.

Once you have chosen the Database library in which the User Entity will be copied, you should edit the '9PQU' JCL in a text editor, and complete the '*'-line at the beginning of the transactions, then run the UPDT procedure.

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4.35. 6.5 COMPLEMENT: CONTROL CARD INSTALLATION

6.5 INSTALLATION OF OPTIONAL CONTROL CARDS

The JCL Module '9INC' contains a stream of optional control cards to compile batch or on-line programs, with or without PAF (PACSQL) pre-processor or Documented COBOL (DCOB).

If the user parameter (AP) file does not yet contain these cards, they can be installed. If the file does contain the cards, the line numbers should be verified so that they are inserted without interfering with other control card sets.

INSTALLATION**6.5 COMPLEMENT: CONTROL CARD INSTALLATION**

```

====MOD 9INC
*           CONTROL CARD INITIALIZATION
NCD0  COMPILATION OF BATCH COBOL PROGRAM (BEFORE)
NCF0  COMPILATION OF BATCH COBOL PROGRAM (AFTER)
NCD1  COMPILATION OF OLSD COBOL PROGRAM (BEFORE)
NCF1  COMPILATION OF OLSD COBOL PROGRAM (AFTER)
NCD2  COMPILATION OF BATCH PROGRAM WITH PAF (BEFORE)
NCF2  COMPILATION OF BATCH PROGRAM WITH PAF (AFTER)
NCD3  COMPILATION OF BATCH COBOL PROGRAM WITH DCOB (BEFORE)
NCF3  COMPILATION OF BATCH COBOL PROGRAM WITH DCOB (AFTER)
NCD5  BMS COMPILATION MAP (BEFORE)
NCF5  BMS COMPILATION MAP (AFTER)
NCD7  COMPILATION OF ON-LINE PROGRAM WITH PAF (BEFORE)
NCF7  COMPILATION OF ON-LINE PROGRAM WITH PAF (AFTER)
NCD000/* COMPILATION OF A COBOL BATCH PROGRAM (TOP)
NCD010* $X JOB JNM=$PRFJ.COB0,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD012* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD019// JOB COB0 COMPIL COBOL BATCH (-/-/- OF -)   $Y    PAGD -
NCD020* - : -                                     $Y    SR    -
NCD025// OPTION $OPT
NCD040* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD080// OPTION CATAL
NCD082 PHASE -,*                                $Y    P    -
NCD085 MODE RMODE(ANY)
NCD086// DLBL LUSER, '-', VSAM                 $Y    1    -
NCD087// LIBDEF PHASE,CATALOG=LUSER.-          $Y    2    -
NCD089* --- STEP 1 --- IGYCRCTL
NCD090// EXEC IGYCRCTL,SIZE=IGYCRCTL
NCD097 CBL NOADV,APOST,RES,LIB,RENT,NOXREF,TRUNC(BIN)
NCF000/* COMPILATION OF A COBOL BATCH PROGRAM (BOTTOM)
NCF010* --- STEP 2 --- LNKEDT
NCF030// EXEC LNKEDT
XNCF089/&
NCF099* $X EOJ
NCD100/* COMPILATION OF AN ONLINE COBOL PROGRAM (TOP)
NCD110* $X JOB JNM=$PRFJ.COB1,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD112* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD119// JOB COB1 COMPIL COBOL ONLINE (-/-/- OF -)$Y    PAGD -
NCD120* - : -                                     $Y    SR    -
NCD125// OPTION $OPT
NCD140* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD142// DLBL LUSER, '-', VSAM                 $Y    1    -
NCD144// LIBDEF PHASE,CATALOG=LUSER.-          $Y    2    -
NCD150* --- STEP 1 --- DFHECP1$
NCD155// ASSGN SYS091,SYSPCH
NCD160// EXEC PROC=$$PACWK1,ASSGN=SYSPCH
NCD190// EXEC DFHECP1$
NCD197 CBL APOST,RES,LIB,RENT,NOXREF,TRUNC(BIN)
NCD199 CBL XOPTS(CICS,OPT,NOLIST)
NCF100/* COMPILATION OF AN ONLINE COBOL PROGRAM (BOTTOM)
NCF110* --- STEP 2 --- IGYCRCTL
NCF115 CLOSE SYSPCH,SYS091
NCF120// EXEC PROC=$$PACWK1,ASSGN=SYSIPT
NCF130// OPTION CATAL
NCF132 PHASE -,*                                $Y    P    -
NCF134 INCLUDE DFHECI
NCF140// EXEC IGYCRCTL,SIZE=IGYCRCTL
NCF141/*
NCF150* --- STEP 3 --- LNKEDT
NCF190// EXEC LNKEDT
XNCF196/&
NCF197 CLOSE SYSIPT,SYSRDR
NCF199* $X EOJ
NCD200/* COMPILATION OF A COBOL BATCH PROGRAM WITH PAF (TOP)
NCD210* $X JOB JNM=$PRFJ.COB2,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD212* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD219// JOB COB2 COMPIL COBOL WITH PAF (-/-/- OF -)$Y    PAGD -
NCD220* - : -                                     $Y    SR    -
NCD225// OPTION $OPT
NCD240* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD248// OPTION CATAL
NCD250 PHASE -,*                                $Y    P    -
NCD255 MODE RMODE(ANY)

```

INSTALLATION**6.5 COMPLEMENT: CONTROL CARD INSTALLATION**

```

NCD260// DLBL LUSER,'- ',VSAM                      $Y   1   -
NCD283// LIBDEF PHASE,CATALOG=LUSER.-               $Y   2   -
NCD290* $X SLI MEM=PAFB$PRO.$PFI..$SLIT
NCD293* $X DATA INPUT
NCF200/* COMPILATION OF A BATCH PROGRAM WITH PAF (BOTTOM)
NCF299* $X EOJ
NCD300/* COMPILATION OF A BATCH COBOL PROGRAM WITH DCOB (TOP)
NCD219// JOB COB3 COMPIL COBOL WITH DCOB(-/-/ OF -)$Y    PAGD -
NCD300/* COMPILATION OF A BATCH COBOL PROGRAM WITH DCOB (BOT)
NCD500/* BMS COMPILATION MAP (BEFORE)
NCD510* $X JOB JNM=$PRFJ.MAP5,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD512* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD519// JOB MAP5 COMPIL MAP BMS      (-/-/- LE -)   $Y    PAGD -
NCD520* - : -                                     $Y    SR   -
NCD525// OPTION $OPT
NCD552* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD555// DLBL LUSER,'- ',VSAM                      $Y   1   -
NCD563// LIBDEF PHASE,CATALOG=LUSER.-               $Y   2   -
NCD564// LIBDEF SOURCE,SEARCH=LUSER.-              $Y   2   -
NCD565* --- STEP 1 --- LIBR
NCD570// EXEC LIBR,PARM='AC S=LUSER.-;CA -.A R=Y'   $Y   3P   -
NCF500/* BMS COMPILATION MAP (AFTER)
NCF505/*
NCF510* --- STEP 2 --- ASSEMBLY
NCF515// OPTION CATAL,SYSPARM='MAP',ALIGN
NCF520 PHASE -,*                                    $Y    P   -
NCF530// EXEC ASSEMBLY
NCF535 PRINT ON,NOGEN
NCF540 COPY -                                     $Y    P   -
XNCF545 AIF ('&SYSPARM'(1,3) NE 'MAP').G565
NCF550 DS 0D
NCF552* PACBASE MAP CONSTANTS
NCF555 DC CL8'WORKING'
NCF560 DC CL5'-' ,CL3'-' ,CL8'-' ,CL6'-' ,CL8'-' $Y    GADSU-
NCF565.G565 ANOP
NCF570 END
NCF575/*
NCF576* --- STEP 3 --- LNKEDT
NCF577// EXEC LNKEDT
NCF579/*
NCF580* --- STEP 4 --- LIBR
NCF582// DLBL IJSYSUC,'$VCAP',,VSAM
NCF585// DLBL LUSER,'- ',VSAM                      $Y   1   -
NCF587// EXEC LIBR,PARM='AC S=LUSER.-;DEL -.A'     $Y   2P   -
NCF588/*
XNCF589/&
NCF599* $X EOJ
NCD700/* ON-LINE PROGRAM COMPILE WITH PAF (BEFORE)
NCD710* $X JOB JNM=$PRFJ.COB7,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD712* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD719// JOB COB7 COBOL COMPIL WITH PAF (-/-/- LE -)$Y    PAGD -
NCD720* - : -                                     $Y    SR   -
NCD725// OPTION $OPT
NCD740* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD748// OPTION CATAL
NCD750 PHASE -,*                                    $Y    P   -
NCD760// DLBL LUSER,'- '                          $Y   1   -
NCD783// LIBDEF PHASE,CATALOG=LUSER.-              $Y   2   -
NCD790* $X SLI MEM=PAFT$PRO.$PFI..$SLIT
NCD793* $X DATA INPUT
NCF700/* ON-LINE PROGRAM COMPILATION WITH PAF (AFTER)
NCF799* $X EOJ
NCD300/* COMPILATION OF PROGRAM COBOL BATCH WITH DCOB (BEFORE)
NCD310* $X JOB JNM=$PRFJ.COB3,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'
NCD312* $X LST CLASS=$PCL,DISP=$PDL.$PWL
NCD313* $X LST CLASS=$PCL,DISP=$PDL,LST=$LST2$PWL
NCD319// JOB COB3 COMPIL COBOL AVEC DCOB(-/-/- LE -)$Y    PAGD -
NCD320* - : -                                     $Y    SR   -
NCD325// OPTION $OPT
NCD343* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
NCD344// OPTION CATAL
NCD345 PHASE -,*                                    $Y    P   -
NCD346 MODE RMODE(ANY)

```

INSTALLATION**6.5 COMPLEMENT: CONTROL CARD INSTALLATION**4
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```
NCD348// DLBL LUSER,'-',VSAM          $Y   1   -
NCD349// LIBDEF PHASE,CATALOG=LUSER.-    $Y   2   -
NCD350* --- STEP 1 --- IGYCRCTL
NCD351// ASSGN SYS091,SYSLST
NCD352// EXEC PROC=$$PACWK2,ASSGN=SYSLST
NCD390// EXEC IGYCRCTL,SIZE=IGYCRCTL
NCD397 CBL NOADV,APOST,RES,LIB,RENT,NOXREF,TRUNC(BIN)
NCF300/* COMPILATION OF PROGRAM COBOL BATCH WITH DCOB (AFTER)
NCF310* --- STEP 2 --- LNKEDT
NCF330// EXEC LNKEDT
NCF389/*
NCF390 CLOSE SYSLST,SYS091
NCF392// ASSGN SYS007,$LST2
NCF397* $X SLI MEM=DCOB$PRO.$PFI..$SLIT
XNCF398/&
NCF399* $X EOI
/*
```

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4.36. 6.6 COMPLEMENT: DCOB CATALOGING PROCEDURE

6.6 CATALOGING OF THE DCOB PROCEDURE (DOCUMENTED COBOL)

The JCL Module 'DCOB' contains the source of the SLI procedure DCOB\$PRO.\$PFI which, once it has been cataloged, can be run by the optional control cards supplied (call code '3').

INSTALLATION

6.6 COMPLEMENT: DCOB CATALOGING PROCEDURE

```

====MOD DCOB
* $X JOB JNM=$PRFJ.DCOB,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.DCOB      ***** $PROD $PREL *****
/* ****
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
// DLBL $LSLI,'$SLIL',VSAM
// EXEC LIBR,PARM='AC S=$LSLI$SLIS;CA DCOB$PRO$PFI..$SLIT R=Y'
/* ****
/* ****
* DOCUMENTED COBOL
/* ****
/* WITH THE STANDARD JCL PROCEDURE $$PACWK2, IF USED IN THE
/* COMPILATION JOB WITH THE PARAMETERS :
/*
/*          DLBL=IJSYSLS,ASSGN=SYSLST,OPT=PERM
/*
/* YOU CAN RETRIEVE THE COMPILATION LISTING ON DISK.
/* IN THIS CASE, IF THIS JOB RUNS IN A PARTITION DIFFERENT FROM
/* THE PARTITION IN WHICH THE COMPILATION JOB WAS RUN,
/* IT IS NECESSARY TO OVERRIDE '$$PACWK2' BY 'PACWK2',
/* 'PACWK2' AND SO ON, ACCORDING TO BG, F2 AND SO ON.
/* THE DISK FILE PAC8SY IS FORMAT UNDEFINED, BLKSZ=133
/* ****
* $P SLI MEM=DBJB$PRO.$PFI..$SLIT
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE 'INPUT' TEMPORARY FILE   --- */
DEL          ($XW..W$MODUL..INPUT) CL
DEF CL        (NAME ($XW..W$MODUL..INPUT) -
               MODEL($MODELF) -
               REC (1 200) -
               ) DATA     (NAME ($XW..W$MODUL..INPUT.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
FIRST004007   COORDINATES 1ST COBOL LINE ON THE PAGE
WINDW004064009  WINDOW (1ST LINE, BEHIND, 1ST COL)
NUMBR065       NUMBER OF LINES/PAGE
NULGG00105000001 NUM OF THE GENERATED LINE (COL, LTH, INCR)
SAUTP1         SKIP CHARACTERS AND CORRESPONDING SKIP
SAUTL+00
SAUTL 01
SAUTL002
SAUTL-03
/*
/. JCLST03
* --- STEP 03 --- PTUCR1
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAQYLC,'$XW..W$MODUL..LC',,VSAM,DISP=NEW
/*
/. JCLST04
* --- STEP 04 --- PTUD10
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC8FA,'$XW..W$MODUL..FA',,VSAM,DISP=(NEW,,DELETE)
// DLBL PAC8FC,'$XW..W$MODUL..INPUT',,VSAM
// DLBL PAC8LC,'$XW..W$MODUL..LC',,VSAM
// DLBL PAC8PG,'$XW..W$MODUL..PG',,VSAM,DISP=(NEW,,DELETE)
// DLBL PAC8RA,'$XW..W$MODUL..RA',,VSAM,DISP=(NEW,,DELETE)
/* DLBL PAC8SY      IF PAC8SY ON DISK (TO COMPLETE)
/* EXTENT SYS017,.....
/* ASSGN  SYS017,DISK,VOL=.....,SHR
// EXEC PROC=$$PACWK2,DLBL=PAC8SY,ASSGN=SYS017 <<--ALSO DISK
/* PAC8SY ON TAPE           SYS016 ASSIGNED
// ON $RC GT 4 GOTO STEPEND
// EXEC PTUD10,SIZE=AUTO
/*

```

INSTALLATION

6.6 COMPLEMENT: DCOB CATALOGING PROCEDURE

```

// ON $RC<16 CONTINUE
/. JCLST05
* --- STEP 05 --- PTUD20
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DLBL PAC7AN,'$PXU..$PRO.$PFI.AN',,VSAM
// DLBL PAC7AR,'$PXU..$PRO.$PFI.AR',,VSAM
// DLBL PAC8FB,'$XW..W$MODUL..PG',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAC8FE,'$XW..W$MODUL..FA',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAC8FS,'$XW..W$MODUL..FS',,VSAM,DISP=(NEW,,DELETE)
// DLBL PAC8LC,'$XW..W$MODUL..LC',,VSAM
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// ON $RC GT 4 GOTO STEPEND
// EXEC PTUD20,SIZE=(AUTO,50K)
/*
// ON $RC<16 CONTINUE
*/
/. JCLST06
* --- STEP 06 --- SORT
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL SORTIN1,'$XW..W$MODUL..FS',,VSAM
// DLBL SORTOUT,'$XW..W$MODUL..KS',,VSAM,DISP=NEW
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// EXEC SORT,SIZE=(AUTO,50K)
SORT FIELDS=(1,15,CH,A)
RECORD TYPE=F,LENGTH=(100)
INPFIL VSAM
OUTFIL KSDS
/*
/. JCLST07
* --- STEP 07 --- PTUD30
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC8FA,'$XW..W$MODUL..KS',,VSAM
// DLBL PAC8FC,'$XW..W$MODUL..INPUT',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAC8LC,'$XW..W$MODUL..LC',,VSAM
// DLBL PAC8RA,'$XW..W$MODUL..RA',,VSAM,DISP=(,DELETE,KEEP)
/* DLBL PAC8SY           IF PAC8SY ON DISK (TO COMPLETE)
/* EXTENT SYS016,.....
/* ASSGN SYS016,DISK,VOL=.....,SHR
// EXEC PROC=$$PACWK2,DLBL=PAC8SY,ASSGN=SYS016 <<--ALSO DISK
/* PAC8SY ON TAPE          SYS015 ASSIGNED
// EXEC PTUD30,SIZE=AUTO
/. JCLST08
* --- STEP 08 --- PTUCR2
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAQYLC,'$XW..W$MODUL..LC',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAQYQN,'$XW..W$MODUL..QN',,VSAM
// EXEC PTUCR2,SIZE=AUTO
/. STEPEND
* --- STEP 09 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
DEL             ($XW..W$MODUL..INPUT) CL
/*
/+ 
/&
* $X EOJ

```

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4.37. 7. MODIFICATION OF THE CICS JCL

7. MODIFICATION OF THE CICS START-UP JCL

Once the CICS tables are updated and compiled, and the files correctly defined, the CICS start-up JCL must be completed with the JCL Module '6JCI', which contains:

- The DLBL of the VA PAC On-Line Module library
- The DLBL of the VSAM catalogue used for VA PAC
- The DLBL of each database's files: AN, AR, AJ, and AG
- The DLBL of system files: AE, AP, and PA
- The DLBL of additional option files: AB and AC for PEI

This module does NOT contain the //LIBDEF PHASE,SEARCH=.... card which is already included in the JCL. This card must be completed by the call of the .Sublib VA PAC On-Line Module library.

INSTALLATION

7. MODIFICATION OF THE CICS JCL

```
==MOD 6JCI
/* ****
/* --- MODIFICATIONS TO THE CICS EXECUTION JCL *
* =====
*      ADD      LCO$PRO$SMODO IN THE LIBDEF PHASE,SEARCH CARD
* =====
/* ****
// DLBL $LMODO,'$MODO' ,VSAM
// DLBL PACCT,'$VCAP' ,VSAM
==SEQ FOR PEI
// DLBL $PRO$PFI.AB,'$PXU..$PRO$PFI.AB' ,VSAM,CAT=PACCT
// DLBL $PRO$PFI.AC,'$PXU..$PRO$PFI.AC' ,VSAM,CAT=PACCT
==SEQ
// DLBL $PRO$PRO.AE,'$PXY..$PRO$PRO.AE' ,VSAM,CAT=PACCT
// DLBL $PRO$PFI.AG,'$PXU..$PRO$PFI.AG' ,VSAM,CAT=PACCT
// DLBL $PRO$PFI.AJ,'$PXU..$PRO$PFI.AJ' ,VSAM,CAT=PACCT
// DLBL $PRO$PFI.AN,'$PXU..$PRO$PFI.AN' ,VSAM,CAT=PACCT
// DLBL $PRO$PRO.AP,'$PXY..$PRO$PRO.AP' ,VSAM,CAT=PACCT
// DLBL $PRO$PFI.AR,'$PXU..$PRO$PFI.AR' ,VSAM,CAT=PACCT
// DLBL $PRO$PRO.PA,'$PXY..$PRO$PRO.PA' ,VSAM,CAT=PACCT
```

4.38. 8.1 COMPLEMENT: *Pac/Impact MODULE*

8.1. COMPLEMENT : Pac/Impact FUNCTION

Execute the jobs:

' INFO'
' INFP'
' INFQ'

INSTALLATION

8.1 COMPLEMENT: CGI/2000 MODULE

```

====SEQ FOR S2K
==MOD INFO
* $X JOB JNM=$PRFJ.INFO,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.INFO      ***** $PROD $PREL *****
*           INITIALIZATION OF 'FO' FILE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE          FO --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWFO) CL
    DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..NEWFO) -
                  MODEL($MODELF) -
                  REC (1000 1000) -
                  RECSZ(260 260) -
                  RECFM(FB(260)) -
                  ) DATA   (NAME ($PXU..SEQ.$PRO$PFI..NEWFO.D) )
/*
/. STEPEND
* --- STEP 02 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.FO.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

INSTALLATION

8.1 COMPLEMENT: CGI/2000 MODULE

```

====SEQ FOR S2K
==MOD INFP
* $X JOB JNM=$PRFJ.INFP,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.INFP      ***** $PROD $PREL *****
*           INITIALIZATION OF 'FP' FILE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE 'INPUT' TEMPORARY FILE --- */
    DEL          ($XW..W$MODUL..INPUT) CL
    DEF CL       (NAME ($XW..W$MODUL..INPUT) -
                  MODEL($MODELF) -
                  REC (1 200) -
                  ) DATA (NAME ($XW..W$MODUL..INPUT.D) )
    /* --- DELETE-DEFINE PERMANENT FILE FP --- */
    DEL          ($PXU..$PRO..FP) CL
    DEF CL       (NAME ($PXU..$PRO..FP) -
                  NAL RUS VOL($VOLWK) -
                  KEYS (9 0) -
                  REC (1000 1000) -
                  RECSZ(9 9) -
                  ) DATA (NAME ($PXU..$PRO..FP.D) -
                  ) INDEX (NAME ($PXU..$PRO..FP.I) )
/*
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
/*
/. JCLST03
* --- STEP 03 --- PAN205
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DLBL PAC7FP,'$PXU..$PRO.$PFI.FP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PROC=$SORTWK CALL SORTWORK DEFINITION
// ON $RC GE 12 GOTO STEPEND
// EXEC PAN205,SIZE=(AUTO,50K)
/*
// ON $RC<16 CONTINUE
/. STEPEND
* --- STEP 04 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    DEL          ($XW..W$MODUL..INPUT) CL
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

INSTALLATION

8.1 COMPLEMENT: CGI/2000 MODULE

```

====SEQ FOR S2K
====MOD INFQ
* $X JOB JNM=$PRFJ.INFQ,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.INFQ      ***** $PROD $PREL *****
*          REINITIALIZATION OF 'FQ' FILE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      FQ --- */
    DEL          ($PXU..SEQ..$PRO$PFI..NEWFQ) CL
    DEF CL       (NAME ($PXU..SEQ..$PRO$PFI..NEWFQ) -
                  MODEL($MODELF) -
                  REC (1000 1000) -
                  RECSZ(100 100) -
                  RECFM(FB(100)) -
    ) DATA      (NAME ($PXU..SEQ..$PRO$PFI..NEWFQ.D) )
/*
/. JCLST02
* --- STEP 02 --- PAN200
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7FQ,'$PXU..SEQ..$PRO$PFI..NEWFQ',,VSAM
// EXEC PAN200,SIZE=AUTO
/. STEPEND
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.FQ.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

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8.2 COMPLEMENT: PAC/TRANSFER MODULE	39	

4.39. 8.2 COMPLEMENT: PAC/TRANSFER MODULE

8.2. COMPLEMENT: PAC/TRANSFER FACILITY

The PAC/TRANSFER facility enables to manage data in batch mode using two types of resources:

- . LIBRARIES in which the programs that make up the system are stored, as well as the parameters required for its operation:

A batch program library,
A SLI member library (POWER),
A VSE procedure library.

- . A PERMANENT FILE containing the parameters used to carry out the transfers.

LOADING OF USER FILES

The '3IUV' JCL module contains the initialization JCL of the transfer parameter file UV.

INSTALLATION
8.2 COMPLEMENT: PAC/TRANSFER MODULE

```

====SEQ FOR PACTR
==MOD 3IUV
* $X JOB JNM=$PRFJ.3IUV,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.3IUV      ***** $PROD $PREL *****
*   CREATION AND INITIALIZATION OF PARAMETER FILE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
  /* --- DELETE-DEFINE PERMANENT FILE    UV --- */
  DEL          ($PXU..$PRO..UV) CL
  DEF CL       (NAME ($PXU..$PRO..UV) -
                NAL RUS VOL($VOLVWK) -
                KEYS (19 1) -
                REC (1000 1000) -
                RECSZ(80 80) -
  ) DATA      (NAME ($PXU..$PRO..UV.D) -
  ) INDEX     (NAME ($PXU..$PRO..UV.I) )
/*
/. STEPEND
* --- STEP 02 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$PXU..$PRO.$PFI.UV',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT)
9999999999999999
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

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4.40. 8.3 COMPLEMENT: BRIDGE VA PAC - TEAMCONNECTION

8.3. COMPLEMENT : VA PAC / TeamConnection BRIDGE

8.3.1. ALLOCATION OF SESSION FILE

This loading is made of with the procedure 'INTS' which includes the following steps:

STEP1: IDCAMS: This step executes the DELETE/DEFINE of the session file (TS).

STEP2: IDCAMS: Initialization of the session file (TS).

This process allows the creation of a certain record on the session file, without which the file is ineffective.

8.3.2. INSTALLATION OF THE TEAMCONNECTION DICTIONARY

This loading is made of with the procedure 'VINS'.

In the string of the DLBL 'PAC7MV', you have to change VGE into TCO.

INSTALLATION
8.3 COMPLEMENT: BRIDGE VA PAC - TEAMCONNECTION

```

====SEQ FOR TEAM
====MOD INTS
* $X JOB JNM=$PRFJ.INTS,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.INTS      ***** $PROD $PREL *****
*   INITIALIZATION OF TS , TEAMCONNECTION FILE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
  /* --- DELETE-DEFINE PERMANENT FILE    TS --- */
  DEL          ($PXU..$PRO..TS) CL
  DEF CL       (NAME ($PXU..$PRO..TS) -
                NAL RUS VOL($VOLVWK) -
                KEYS (19 2) -
                REC (1000 1000) -
                RECSZ(80 80) -
  ) DATA      (NAME ($PXU..$PRO..TS.D) -
  ) INDEX     (NAME ($PXU..$PRO..TS.I) )
/*
/. STEPEND
* --- STEP 02 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL OUT,'$PXU..$PRO..$PRO.TS',,VSAM
// EXEC IDCAMS,SIZE=AUTO
REPRO OFILE (OUT) IFILE(SYSIPT)
9999999999999999
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

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4.41. 9. LIST OF INSTALLED PROGRAMS AND FILES

9. LIST OF INSTALLED PROGRAMS AND FILES

Execute JCL module '9INS'.

This job prints:

- A list of batch and on-line programs, including their compilation dates.
- A list of permanent system files: AE, SC, SF, SG, SP, SR, and SS, with their creation dates.

It is recommended that these listings be kept so that, in case of VA PAC System operating difficulties, the installation references can be sent to VisualAge Pacbase Support .

INSTALLATION

9. LIST OF INSTALLED PROGRAMS AND FILES

```

====MOD 9INS
* $X JOB JNM=$PRFJ.9INS,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ***** $PROD $PREL *****
// JOB $PRFJ.9INS           ***** $PROD $PREL *****
*   LIST OF INSTALLED PROGRAMS AND FILES
/* ***** $PROD $PREL *****
/* INPUT FOR PACDTP :
/*
/* . IF A SELECTION OF PROGRAMS IS NEEDED, ONE LINE
/* PER SELECTED PROGRAM WITH :
/* - CHARACTERS 3-8 : SELECTED PROGRAM CODE
/*
/* . TO OBTAIN THE WHOLE LIST OF THE PROGRAMS, ONE LINE IN
/* INPUT, WHOSE FORMAT IS :
/* - CHARACTERS 3-4 : ROOT OF THE SYSTEM ($PRO)
/*
/* ***** $PROD $PREL *****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
// GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
/* --- DEFINE "INPUT" TEMPORARY FILE --- */
DEL          ($XW..W$MODUL..INPUT) CL PURGE
DEF CL (NAME ($XW..W$MODUL..INPUT) -
        MODEL($MODEL) -
        REC (200 200) ) -
        DATA (NAME ($XW..W$MODUL..INPUT.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
$PRO
/*
/. JCLST03
* --- STEP 03 --- PACDTP
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// DLBL PAC7AE,'$PXY..$PRO.$PRO.AE',,VSAM
// DLBL PAC7SC,'$PXY..$PRO.$PRO.SC',,VSAM
// DLBL PAC7SF,'$PXY..$PRO.$PRO.SF',,VSAM
// DLBL PAC7SG,'$PXY..$PRO.$PRO.SG',,VSAM
// DLBL PAC7SP,'$PXY..$PRO.$PRO.SP',,VSAM
// DLBL PAC7SR,'$PXY..$PRO.$PRO.SR',,VSAM
// DLBL PAC7SS,'$PXY..$PRO.$PRO.SS',,VSAM
// EXEC PACDTP,SIZE=AUTO
/*
/. STEPEND
* --- STEP 04 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
DEL          ($XW..W$MODUL..INPUT) CL
/*
// EXEC LISTLOG
/&
* $X EOJ

```

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4.42. INSTALLATION TESTS

INSTALLATION TESTS

Tests on the operations are divided into three groups:

- . Database Utilization Tests,
- . Database Management Tests,
- . Extraction Utility Tests.

4.43. UTILIZATION TESTS

1. UTILISATION TESTS

These tests include the following steps:

- . On-line utilization tests under CICS,
- . batch update test,
- . Program generation-printing test,

On-line System test:

Open the test database files under CICS.
Test the screen branching.
Execute some updates.

Batch update test:

Execute the '\$prfjUPDT' job (UPDT procedure).
The Database files must be closed under CICS.

Generation-printing test:

Execute the '\$prfjGPRT'job (GPRT procedure).

The Database files must be closed under CICS if the generation-printing request file (AG)is to be read (+AG transaction as input to GPRT).

**INSTALLATION
UTILIZATION TESTS**

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```
*  
*      INPUT FOR UPDT PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
*TEST          XCN  
0   TEST1        TEST  
P5010  N  TEST           10BL  
P5010 1 M  AA00 BB00  
P5010 2 A  1 IWA10R  
  
*  
*      INPUT FOR GPRT PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
*TEST          XCN  
Z   LCP  
Z   LCE  
Z   DCP TEST1
```

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4.44. DATABASE MANAGEMENT TESTS

2. VA PACBASE DATABASE MANAGEMENT TESTS

The purpose of these tests is to execute the VA Pacbase database management procedures.

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

- . Archiving of the journal created during the utilization test phase: execute the '\$prfj.ARCH' job yielding the PJ(1) file.
- . Direct backup of the Database: execute the '\$prfj.SAVE' job yielding the PC(1) file.
- . Backup of generation-printing requests: execute the '\$prfj.SVAG' job yielding the PG file.
- . Library management: addition/deletion of a Library: execute the '\$prfj.MLIB' job yielding the PC(2) file.
- . Reorganization of sequential backup PC(2) of the Database: execute the '\$prfj.REOR' job yielding the PC(3)file.
- . Reorganization of sequential backup (PG) of the generation-printing request file and restoration of the AG file: execute the '\$prfj.REAG' job.
- . Database restoration using the PJ(1) archived transaction file and the PC(3) Database backup file: execute the '\$prfj.REST' job.

The VA Pac Database files must be closed under CICS when all these tests are run.

Once the VA Pac Database is restored, it is advisable to briefly test on-line operations again, after having re- opened the Database files.

INSTALLATION
DATABASE MANAGEMENT TESTS

```
*  
*      INPUT FOR ARCH PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
S  
*  
*      INPUT FOR MLIB PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
G          EXISTING DATABASE - NO SIMULATION  
C*AP5XCN    CREATE AP5 LIBRARY UNDER XCN  
*  
*      INPUT FOR REOR PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
V0010  
BAP5  
*  
*      INPUT FOR REAG PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
AG  
*  
*      INPUT FOR REST PROCEDURE :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
Y01000      REC          123456789ABC
```

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4.45. EXTRACTION UTILITIES TESTS

3. EXTRACTION UTILITY TESTS

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:

1. Extraction of a library as transactions: execute job '\$prfj.PACX' with EXLI type input,
2. Extraction of entities from a library: execute job '\$prfj.PACX' with EXTR type input,
3. Extraction of selected transactions and/or lists of transactions from the archived journal (PJ): execute job '\$prfj.PACX' with EXPJ type input.

The VA Pac Database files can be opened under CICS for all of these tests.

Each of these jobs can be followed by a UPDT to verify the validity of these extracted transactions.

INSTALLATION
EXTRACTION UTILITIES TESTS

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```
*  
*      INPUT FOR PACX PROCEDURE (EXLI TYPE) :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
*TEST          XCN  
*  
*      INPUT FOR PACX PROCEDURE (EXTR TYPE) :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
  
*TEST          XCN  
W1EXCEXCHOIX  
W1EXCPBBMONI  
W1EXUDXS  
W1EXCSXS00  
*  
*      INPUT FOR PACX PROCEDURE (EXPJ TYPE) :  
*....+....1....+....2....+....3....+....4....+....5....+....6....  
*TEST          CEN          EXPJ1  
JS
```

4.46. UTILIZATION TEST: Pac/Impact

2. TESTING Pac/Impact

The purpose of these tests is to execute the Pac/Impact procedures for VisualAge Pacbase.

To execute these tests, it is recommended to create a separate database for the UXSR procedure.

The initialization of the FP and FQ files must be performed.

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

- . definition of entry points, execute the '\$prfj.ISEP' job indicating the selection lines and the context,
- . definition of complementary entry points, execute the '\$prfj.ISOS' job indicating the selection lines and the context. This step is optional.
- . Printing of the entry points, execute the '\$prfj.IPEP' job.
- . impact analysis, execute the '\$prfj.IANA' job. For the tests, one execution of this procedure may be sufficient.
- . printing of results, execute the '\$prfj.IPIA' job, specifying the context and desired printouts.
- . printing of impacted criteria, execute the '\$prfj.IPFQ' job.

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4.47. UTILIZATION TESTS: PAC/TRANSFER

2. TESTING THE PAC/TRANSFER FUNCTION

The purpose of these tests is to execute the procedures of the PAC/TRANSFER versioning management (for more details, refer to the 'ADMINISTRATOR'S GUIDE', chapter 'VERSIONING UTILITIES').

To execute these tests, the VA Pac database journal must have been archived.

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

- . Update of the transfer parameters: execute the '\$prfj.TRUP' job, specifying the required transfer parameters in the input transaction stream.
- . Compression of the archived journal (optional test): execute the '\$prfj.TRJC' job, specifying the name of the archived Journal file to be compressed.
- . Creation of the transaction file: execute the '\$prfj.TRPF' job, specifying the user code and password, as well as the transaction SET to be built.
- . Preparation of the DSMS environment (this test is optional, and necessary only when the VA Pac database is under DSMS control): execute the '\$prfj.TRDU' job, specifying the SET to be processed, then execute a batch update of the DSMS database with the first stream of transactions generated by the DUPD procedure.
- . Generation of transfer transactions: execute the '\$prfj.TRRP' job, specifying the user code and password, selecting all the SETs and all the sessions to be processed.
- . Update of the VA Pac database using the UPDT procedure with the generated transfer transactions.
- . Reinitialization of the DSMS environment (this test is optional, and necessary only if the VA Pacbase database is under DSMS control): batch update of the DSMS database with the second stream of transactions generated by the DUPD procedure.

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4.48. UTILIZATION TESTS: VA PAC - VA SMALLTALK

VISUALAGE PACBASE-VISUALAGE SMALLTALK BRIDGE

To be able to test the Bridge procedures, you need a VA Pacbase test database and a file provided by VisualAge (for the VUP1 procedure), compatible with the VA Pacbase test database.

The procedures must be executed in the following sequence:

- . VUP1 (JOB \$PRFJ.VUP1)
- . VUP2 (JOB \$PRFJ.VUP2)
- . VDWN (JOB \$PRFJ.VDWN)
- . VPUR (JOB \$PRFJ.VPUR)

5. REINSTALLATION OF SUB-RELEASE

5.1. STANDARD REINSTALLATION

STANDARD REINSTALLATION OF THE SYSTEM

The System must be reinstalled when a new VA PAC release is shipped containing corrections to the preceding release or specific developments for this release.

The new sub-release is identified by a number, and usually includes:

- . A complete installation cartridge or tape,
- . A list of corrections made since the latest sub-release.
- . If applicable, a set of instructions describing the reinstallation procedures to be followed,

Typically, only the program libraries and the system files are affected by a new version.

Therefore, reinstallation generally involves the execution of the following jobs:

1. JOB0, which copies the installation tape (job contained in the initial JCL file).
2. JOB2, which creates the reinstallation JCL.

It executes the MM1JCL utility with the parameters provided at installation, but to which the following JCL module selection lines will be added:

==SELMA 2PHA ==SELMA 3SYS

Additional selections may also be included in the set of instructions provided with the tape.

Once the JCL modules are obtained via this job, or retrieved from a previous (re-)installation, the reinstallation continues with the execution of the jobs described below.

3. LOADING OF BATCH AND ON-LINE PROGRAM PHASES

Module 2PHA

IMPORTANT: According to the instructions provided with the tape, the only JCL lines to be kept are those which correspond to reinstalled phases.

4. RELOADING OF GENERATION 'SKELETON' FILES

Module 3SYS

5. RELOADING OF ERROR MESSAGE AND DOCUMENTATION FILE, RETRIEVING USER PARAMETERS

Two cases are possible:

1. There are no additional user parameters to be added for the reinstallation (no new users, no new VA PAC access key, etc.), and the parameter backup (PAC7CE file) is valid: run the LOAE procedure.
2. There are additional user parameters to be added for the reinstallation: run the PARM procedure with the NRCHAR command, followed by the update transactions.

6. RETRIEVAL PACBASE 802.02,, 1.6

6.1. WARNING

FOREWORD

Users of the WorkStation, DSMS and Pactables functions should ensure the operating compatibility of these functions with VisualAge Pacbase, according to the versions/releases in use.

The current VisualAge Pacbase release is compatible with:

- WorkStation new release
- DSMS from release 8.0.2 compatible with VA Pac 8.0.2
- Pactables all releases

NOTE:

Users of Pactables 7.3 or 8.0, need a special program, PTA250, for the GETT Pactables procedure. This program is available on request with IBM.

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6.2. RETRIEVAL PACBASE 8.0, 8.0.1

6.2.1. RETRIEVAL OPERATIONS

RETRIEVAL OF PACBASE 8.0, 8.0.1: OPERATIONS

OPERATIONS TO BE PERFORMED

The retrieval of existing applications allowing for the transformation of a PACBASE 8.0 or 8.0.1 database into a database compatible with the new Visualage Pacbase release is broken down into the following phases:

- . Retrieval of 8.0 user parameters
- . Retrieval of 8.0 database(s)

For users of the PEI function:

- . Retrieval of Production Environment Interface (PEI)

For users of the WorkStation:

- . The 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.

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1. Retrieval of user parameters

- . Backup of the user parameters, producing a PE file, old release.
- . Retrieval of the 8.0 or 8.0.1 user parameters backup (PE80 procedure).

CAUTION: The SYSTEM ACCESS KEY must be entered on NK input line of the retrieval procedure.

- . Execution of the new LOAE procedure using as input backup file the PE file produced by the parameter retrieval, and the '*****' user code and NRREST as input parameters.
- . For users of the VA Pac WorkStation, execution of the new PARM procedure, including in the input the transactions associated to the methodology used on the site. (See Chapter INSTALLATION, Subchapter 'INSTALLATION PROCESS', Section 'Loading of Error Messages, Documentation, and User Parameters'.) Use the NRCHAR command.

RESULT: AE and AP files, containing the old release user parameters as operational under the new VA Pac release, and the methodology parameters.

2. Retrieval of a VA Pac Database

- . Backup of the database, producing a PC file (old release).
- . Retrieval of the resulting PC 8.0 file in the new format (PC80 procedure), producing a new-format PC backup.
- . Reorganization (new REOR) of the new-format backup obtained from the previous step.
- . Journal file initialization (new ARCH procedure).
- . Database restoration from the backup resulting from the REOR procedure (new REST procedure).
- . Backup of generation-print commands, producing a PG file (old release).
- . Retrieval of the generation-print commands (RPPG),
- . Restoration of generation-print commands resulting from the backup of the previous step (new REAG procedure).
- . Retrieval of sequential archive file (PJ80 procedure). This procedure is optional. It extracts Journal transactions from older archives, using new programs that handle the century in dates.

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

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RETRIEVAL OPERATIONS	1	

3. Retrieval of the Production Environment Interface

- . PEI backup, producing a PP file (old release).
- . Retrieval of sequential backup (PP16 procedure). The retrieval adds the century digits to all dates handled by the PEI Function.
- . 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.

RETRIEVAL PACBASE 802.02,, 1.6	6
RETRIEVAL PACBASE 8.0, 8.0.1	2
RPPG: GENERATION-PRINT FILE (AG) RETRIEVAL	2

6.2.2. RPPG: GENERATION-PRINT FILE (AG) RETRIEVAL

```

====SEQ FOR ROLD
====MOD PE80
* $X JOB JNM=$PRFJ.PE80,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PE80      ***** $PROD $PREL *****
*      REPRISE DES PARAMETRES UTILISATEUR
/* ****
/* SUBSTITUTION: FOLDPE BY PHYSICAL NAME 'PE' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE 'INPUT' TEMPORARY FILE   --- */
    DEL          ($XW..W$MODUL..INPUT) CL
    DEF CL       (NAME ($XW..W$MODUL..INPUT) -
                  MODEL($MODELF) -
                  REC (1 200) -
    ) DATA      (NAME ($XW..W$MODUL..INPUT.D) )
    /* --- DELETE-DEFINE BACKUP FILE           PE --- */
    DEL          ($PXY..SEQ.$PRO$PRO..NEWPE) CL
    DEF CL       (NAME ($PXY..SEQ.$PRO$PRO..NEWPE) -
                  MODEL($MODELF) -
                  REC (1000 1000) -
                  RECSZ(80 80) -
                  RECFM(FB(80)) -
    ) DATA      (NAME ($PXY..SEQ.$PRO$PRO..NEWPE.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
XNK000<----- SYSTEM ACCESS KEYS -----$K
/*
/. JCLST03
* --- STEP 03 --- PTU902
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7IN,'FOLDPE',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAC7OU,'$PXY..SEQ.$PRO$PRO..NEWPE',,VSAM
// ON $RC GT 0 GOTO STEPEND
// EXEC PTU902,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST04
* --- STEP 04 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PRO.PE.$SLIT
/*
/. STEPEND
* --- STEP 05 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    DEL          ($XW..W$MODUL..INPUT) CL
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

RETRIEVAL PACBASE 802.02,, 1.6	6
RETRIEVAL PACBASE 8.0, 8.0.1	2
PC80 : DATABASE RETRIEVAL	3

6.2.3. PC80 : DATABASE RETRIEVAL

```

====SEQ FOR ROLD
==MOD PC80
* $X JOB JNM=$PRFJ.PC80,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PC80      ***** $PROD $PREL *****
*          REPRISE DE LA SAUVEGARDE DE LA BASE
/* ****
/* SUBSTITUTION: FOLDPC BY PHYSICAL NAME 'PC' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=DF$PRO.$PFI.PC.$SLIT
/*
/. JCLST02
* --- STEP 02 --- REPGDP
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MC,'FOLDPC',,VSAM
/* PAC7MC ON TAPE : SYS011 ASSIGNED
// DLBL PAC7PC,'$PXU..SEQ.$PRO$PFI..NEWPC',,VSAM
/* PAC7PC ON TAPE : SYS012 ASSIGNED
// EXEC REPGDP,SIZE=AUTO
/. STEPEND
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PC.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

RETRIEVAL PACBASE 802.02,, 1.6	6
RETRIEVAL PACBASE 8.0, 8.0.1	2
RPPG : GENERATION-PRINT FILE (AG) RETRIEVAL	4

6.2.4. RPPG : GENERATION-PRINT FILE (AG) RETRIEVAL

```

====SEQ FOR ROLD
====MOD RPPG
* $X JOB JNM=$PRFJ.RPPG,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.RPPG      ***** $PROD $PREL *****
*          RETRIEVAL OF AG FILE (PG)
/* ****
/* SUBSTITUTION: FOLDPG BY PHYSICAL NAME 'PG' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      PG --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPG) CL
    DEF CL      (NAME ($PXU..SEQ.$PRO$PFI..NEWPG) -
                  MODEL($MODELF) -
                  REC (100 100) -
                  RECSZ(150 150) -
                  RECFM(FB(150)) -
    ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..NEWPG.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU908
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7IN,'FOLDPG',,VSAM
/* PAC7IN ON TAPE : SYS011 ASSIGNED
// DLBL PAC7OU,'$PXU..SEQ.$PRO$PFI..NEWPG',,VSAM
/* PAC7OU ON TAPE : SYS012 ASSIGNED
// ON $RC GT 0 GOTO $EOJ
// EXEC PTU908,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PG.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

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RETRIEVAL PACBASE 8.0, 8.0.1	2	
PJ80 : ARCHIVED JOURNAL RETRIEVAL	5	

6.2.5. PJ80 : ARCHIVED JOURNAL RETRIEVAL

ARCHIVED JOURNAL RETRIEVAL

With release 8.0.2 or later of the DSMS Function, it is possible to modify the Product Code when retrieving the previous database. The Code format changes from 1 to 3 characters.

This possibility is also offered when retrieving the PACBASE archived journal from a previous release.

USER INPUT (optional)

```
+-----+
! Pos. ! Len. ! Value ! Meaning !
!-----!
!   1   !    4   ! 'onnn' ! Modification of DSMS Product Code !
!           !           ! o   = former Product Code !
!           !           ! nnn = new Product Code !
!           !           ! (1, 2 or 3 characters) !
+-----+
```

On a line, the 'onnn' character string may be repeated as many times as there are Product Codes to be modified, with a limit of 20.

NOTE: The validity of this input is not checked for proper syntax. The procedure's syntax should be carefully checked before execution, since no output report is produced.

RETRIEVAL PACBASE 802.02,, 1.6	6
RETRIEVAL PACBASE 8.0, 8.0.1	2
PJ80 : ARCHIVED JOURNAL RETRIEVAL	5

```

====SEQ FOR ROLD
==MOD PJ80
* $X JOB JNM=$PRFJ.PJ80,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PJ80      ***** $PROD $PREL *****
*          REPRISE DU JOURNAL ARCHIVE
/* ****
/* SUBSTITUTION: FOLDPJ BY PHYSICAL NAME 'PJ' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE 'INPUT' TEMPORARY FILE   --- */
    DEL          ($XW..W$MODUL..INPUT) CL
    DEF CL       (NAME ($XW..W$MODUL..INPUT) -
                  MODEL($MODELF) -
                  REC (1 200) -
                  ) DATA (NAME ($XW..W$MODUL..INPUT.D) )
    /* --- DELETE-DEFINE TEMPORARY FILE   PJ --- */
    DEL          ($XW..W$MODUL..PJ) CL
    DEF CL       (NAME ($XW..W$MODUL..PJ) -
                  MODEL($MODELF) -
                  REC ($RAJP $RAJS) -
                  RECSZ(165 165) -
                  RECFM(FB(165)) -
                  ) DATA (NAME ($XW..W$MODUL..PJ.D) )
    /* --- DELETE-DEFINE BACKUP FILE           PJ --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPJ) CL
    DEF CL       (NAME ($PXU..SEQ.$PRO$PFI..NEWPJ) -
                  MODEL($MODELF) -
                  REC ($RAJP $RAJS) -
                  RECSZ(167 167) -
                  RECFM(FB(167)) -
                  ) DATA (NAME ($PXU..SEQ.$PRO$PFI..NEWPJ.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU001
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM
// EXEC PTU001,SIZE=AUTO
ONNN
/*
/. JCLST03
* --- STEP 03 --- PTU917
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7IN,'FOLDPJ',,VSAM
// DLBL PAC7MB,'$XW..W$MODUL..INPUT',,VSAM,DISP=(,DELETE,KEEP)
// DLBL PAC7OU,'$XW..W$MODUL..PJ',,VSAM
// ON $RC GT 0 GOTO STEPEND
// EXEC PTU917,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST04
* --- STEP 04 --- REP2PJ
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7JP,'$PXU..SEQ.$PRO$PFI..NEWPJ',,VSAM
/* PAC7JP ON TAPE : SYS011 ASSIGNED
// DLBL PAC7PJ,'$XW..W$MODUL..PJ',,VSAM
/* PAC7PJ ON TAPE : SYS012 ASSIGNED
// ON $RC GT 0 GOTO STEPEND
// EXEC REP2PJ,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST05
* --- STEP 05 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PJ.$SLIT

```

RETRIEVAL PACBASE 802.02,, 1.6
RETRIEVAL PACBASE 8.0, 8.0.1
PJ80 : ARCHIVED JOURNAL RETRIEVAL

```
/*
/. STEPEND
* --- STEP 06 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    DEL          ($XW..W$MODUL..INPUT) CL
    DEL          ($XW..W$MODUL..PJ)     CL
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ
```

RETRIEVAL PACBASE 802.02,, 1.6	6
RETRIEVAL PACBASE 8.0, 8.0.1	2
PP16 : PRODUCTION ENVIRONMENT RETRIEVAL	6

6.2.6. PP16 : PRODUCTION ENVIRONMENT RETRIEVAL

```

====SEQ FOR ROLD
====MOD PP16
* $X JOB JNM=$PRFJ.PP16,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PP16      ***** $PROD $PREL *****
*          RETRIEVAL OF PEI FILE (PP)
/* ****
/* SUBSTITUTION: fOLDPP BY PHYSICAL NAME 'PP' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      PP --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPP) CL
    DEF CL      (NAME ($PXU..SEQ.$PRO$PFI..NEWPP) -
                  MODEL($MODELF) -
                  REC   (200 200) -
                  RECSZ(110 110) -
                  RECFM(FB(110)) -
    ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..NEWPP.D) )
/*
/. JCLST02
* --- STEP 02 --- PACR90
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7PE,'fOLDPP',,VSAM
/* PAC7PE ON TAPE : SYS011 ASSIGNED
// DLBL PAC7PS,'$PXU..SEQ.$PRO$PFI..NEWPP',,VSAM
/* PAC7PS ON TAPE : SYS012 ASSIGNED
// ON $RC GT 0 GOTO $EOJ
// EXEC PACR90,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PP.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

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RETRIEVAL PACBASE 802.02, . . . , 1.6	6	
RETRIEVAL VA PAC 802.02, . . . , 1.6	3	
OPERATIONS TO BE DONE	1	

6.3. RETRIEVAL VA PAC 802.02, ..., 1.6

6.3.1. OPERATIONS TO BE DONE

RETRIEVAL OF PACBASE 802v02, 1.2, 1.6: OPERATIONS

OPERATIONS TO BE PERFORMED

The installation of the new VA Pac release does not require any particular retrieval of the database files and associated user files, except for the generation-print command file, the PEI files (AB, AC) and the archived journal (PJ).

Once the new VA Pac release is installed, you must back up the databases and associated user files via the standard procedures of the release to be retrieved, and retrieve and restore these databases and files via the standard procedures of the new VA Pac release. To benefit from the new choices, you should include the reorganization procedure in the retrieval process.

For users of the WorkStation:

- . The 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.

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RETRIEVAL PACBASE 802.02, . . . , 1.6	6	
RETRIEVAL VA PAC 802.02, . . . , 1.6	3	
OPERATIONS TO BE DONE	1	

1. Reinstallation of the User parameters

- . Backup of the user parameters, producing a PE file, old release (PARM procedure R 8.02 to 1.6)
- . Execution of the new LOAE procedure using as input backup file the PE file produced by the preceding backup, and the '*****' user code and NRREST command as input parameters.
- . Execution of the PARM procedure with, as input, the MBPARM file containing the new key supplied with the product.
- . For users of the VA Pac WorkStation, execution of the new PARM procedure, including in the input the transactions associated to the methodology used on the site. (See Chapter INSTALLATION, Subchapter 'INSTALLATION PROCESS', Section 'Loading of Error Messages, Documentation, and User Parameters'.) Use the NRCHAR command.

RESULT: AE and AP files, containing the old release user parameters as operational under the new VA Pac release, and the methodology parameters.

2. Reinstallation of a VA Pac Database

- . Backup of the database, producing a PC file (old release);
- . Journal file initialization (new ARCH procedure).
- . Database restoration from the backup resulting from the backup procedure (new REST procedure).
- . Backup of generation-print commands, producing a PG file (old release).
- . Retrieval of the generation-print commands (RPPG), producing a PG file (new release).
- . Restoration of generation-print commands resulting from the backup of the previous step (new REAG procedure).

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RETRIEVAL PACBASE 802.02, . . . , 1.6	6	
RETRIEVAL VA PAC 802.02, . . . , 1.6	3	
OPERATIONS TO BE DONE	1	

- . Retrieval of sequential archive file (PJ16 procedure). This procedure is optional. It extracts Journal transactions from older archives, using new programs that handle the century in dates.

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 (old release).
- . Retrieval of sequential backup (PP16 procedure). The retrieval adds the century digits to all dates handled by the PEI Function.
- . 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.

RETRIEVAL PACBASE 802.02, . . . , 1.6	6
RETRIEVAL VA PAC 802.02, . . . , 1.6	3
RPPG : GENERATION-PRINT FILE (AG) RETRIEVAL	2

6.3.2. RPPG : GENERATION-PRINT FILE (AG) RETRIEVAL

```

====SEQ FOR ROLD
====MOD RPPG
* $X JOB JNM=$PRFJ.RPPG,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.RPPG      ***** $PROD $PREL *****
*          RETRIEVAL OF AG FILE (PG)
/* ****
/* SUBSTITUTION: FOLDPG BY PHYSICAL NAME 'PG' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      PG --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPG) CL
    DEF CL      (NAME ($PXU..SEQ.$PRO$PFI..NEWPG) -
                  MODEL($MODELF) -
                  REC (100 100) -
                  RECSZ(150 150) -
                  RECFM(FB(150)) -
    ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..NEWPG.D) )
/*
/. JCLST02
* --- STEP 02 --- PTU908
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7IN,'FOLDPG',,VSAM
/* PAC7IN ON TAPE : SYS011 ASSIGNED
// DLBL PAC7OU,'$PXU..SEQ.$PRO$PFI..NEWPG',,VSAM
/* PAC7OU ON TAPE : SYS012 ASSIGNED
// ON $RC GT 0 GOTO $EOJ
// EXEC PTU908,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PG.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

RETRIEVAL PACBASE 802.02, . . . , 1.6	6
RETRIEVAL VA PAC 802.02, . . . , 1.6	3
PJ16: ARCHIVED JOURNAL RETRIEVAL	3

6.3.3. PJ16: ARCHIVED JOURNAL RETRIEVAL

```

====SEQ FOR ROLD
====MOD PJ16
* $X JOB JNM=$PRFJ.PJ16,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PJ16      ***** $PROD $PREL *****
*          RETRIEVAL OF AJ FILE (PJ)
/* ****
/* SUBSTITUTION: FOLDPJ BY PHYSICAL NAME 'PJ' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      PJ --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPJ) CL
    DEF CL      (NAME ($PXU..SEQ.$PRO$PFI..NEWPJ) -
                  MODEL($MODELF) -
                  REC   ($RAJP $RAJS) -
                  RECSZ(167 167) -
                  RECFM(FB(167)) -
    ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..NEWPJ.D) )
/*
/. JCLST02
* --- STEP 02 --- REP2PJ
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7JP,'$PXU..SEQ.$PRO$PFI..NEWPJ',,VSAM
/* PAC7JP ON TAPE : SYS012 ASSIGNED
// DLBL PAC7PJ,'FOLDPJ',,VSAM
/* PAC7PJ ON TAPE : SYS011 ASSIGNED
// ON $RC GT 0 GOTO $EOJ
// EXEC REP2PJ,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PJ.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```

RETRIEVAL PACBASE 802.02, . . . , 1.6	6
RETRIEVAL VA PAC 802.02, . . . , 1.6	3
PP16: PRODUCTION ENVIRONMENT RETRIEVAL	4

6.3.4. PP16: PRODUCTION ENVIRONMENT RETRIEVAL

```

====SEQ FOR ROLD
====MOD PP16
* $X JOB JNM=$PRFJ.PP16,CLASS=$PCJ,DISP=$PDJ,USER='$PUJ'$PWJ
* $X LST CLASS=$PCL,DISP=$PDL$PWL
/* ****
// JOB $PRFJ.PP16      ***** $PROD $PREL *****
*          RETRIEVAL OF PEI FILE (PP)
/* ****
/* SUBSTITUTION: fOLDPP BY PHYSICAL NAME 'PP' OLD RELEASE
/* ****
// OPTION $OPT
* $X SLI MEM=DBJB$PRO.$PFI..$SLIT
/* GOTO JCLSTXX
/. JCLST01
* --- STEP 01 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
    /* --- DELETE-DEFINE BACKUP FILE      PP --- */
    DEL          ($PXU..SEQ.$PRO$PFI..NEWPP) CL
    DEF CL      (NAME ($PXU..SEQ.$PRO$PFI..NEWPP) -
                  MODEL($MODELF) -
                  REC   (200 200) -
                  RECSZ(110 110) -
                  RECFM(FB(110)) -
    ) DATA      (NAME ($PXU..SEQ.$PRO$PFI..NEWPP.D) )
/*
/. JCLST02
* --- STEP 02 --- PACR90
// DLBL IJSYSUC,'$VCAP',,VSAM
// DLBL PAC7PE,'fOLDPP',,VSAM
/* PAC7PE ON TAPE : SYS011 ASSIGNED
// DLBL PAC7PS,'$PXU..SEQ.$PRO$PFI..NEWPP',,VSAM
/* PAC7PS ON TAPE : SYS012 ASSIGNED
// ON $RC GT 0 GOTO $EOJ
// EXEC PACR90,SIZE=AUTO
/*
// ON $RC<16 CONTINUE
/. JCLST03
* --- STEP 03 --- IDCAMS
// DLBL IJSYSUC,'$VCAP',,VSAM
// EXEC IDCAMS,SIZE=AUTO
* $X SLI MEM=RG$PRO.$PFI.PP.$SLIT
/*
// EXEC LISTLOG
/&
* $X EOJ
====SEQ

```