



VisualAge Pacbase 2.5

**VA PAC 2.5 – IBM CICS/OS/MVS
OPERATIONS MANUAL VOLUME I : ENVIRONMENT & INSTALLATION**

DEPCI001251A

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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 Center.

- . 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'

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2. VISUALAGE PACBASE COMPONENTS

2.1. INTRODUCTION

INTRODUCTION

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

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

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

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

- . 'System' files, which are not linked to a 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.

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

2.3. ON-LINE PROGRAM LIBRARY

THE ON-LINE PROGRAM LIBRARY (MTR8)

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

! PROGRAM ! CODE	! FUNCTION! ! OPTION	! CORRESPONDING CHOICE ! COMMENTS	!
!-----!-----!			
! xxPA00	! DIC	! xxEE transaction	!
! xxxPA01	! -	! .Connection screen	!
! xxPA10	! -	! H	!
! xxPA11	! -	! HP .	!
! xxPA12	! -	! LCPC..	!
! xxPA13	! -	! PC..	!
! xxPA14	! -	! PT.	!
! xxPA15	! -	! PE.	!
! xxPA16	! -	! PU.....	!
! xxPA17	! -	! PK	!
! xxPA18	! -	! PD	!
! xxPA19	! -	! LCPU.....	!
! xxPA20	! -	! PW	!
! xxPA21	! -	! PB	!
! xxPA22	! -	! PM	!
! xxPA23	! -	! LCPM	!
! xxPA30	! PEI	! Prod. Env. Interface menu	!
! xxPA31	! -	! EE.....	!
! xxPA32	! -	! EG.....	!
! xxPA33	! -	! ES....	!
! xxPA34	! -	! LSEP.....	!
! xxPA35	! -	! ED.....	!
! xxPBND	! DIC	! Abend map	!
! xxxPPHP	! -	! Help	!
!-----!-----!			
! VA Pacbase transaction			
! xxQA00	! DIC	! D..	!
! xxxQB00	! 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	!

! PROGRAM ! CODE	! FUNCTION! ! OPTION	! CORRESPONDING CHOICE ! 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	!

! PROGRAM ! CODE	! FUNCTION! ! OPTION	! CORRESPONDING CHOICE ! 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	!


```

-----
! PROGRAM !FUNCTION! CORRESPONDING CHOICE !
! CODE ! OPTION ! COMMENTS !
-----
!-----!-----! VA Pacbase transaction !
! xxR600 ! DIC ! Text editing !
! xxR980 ! - ! Screen formatting !
! xxR990 ! - ! WEB formatting !
! xxUCTR ! - ! UCTRAN management (ASM) !
! ! ! up to CICS ESA 3.1 !
! xxUCTX ! - ! Neutralization of xxUCTR (COB) !
! xxUCTZ ! - ! UCTRAN management (COB) !
! ! ! from CICS ESA 3.3 !
! xxSECT ! SEC ! Security system interface !
-----
!-----!-----! PUF-TP transaction !
! xxFANM ! DIC ! !
! xxFBIB ! - ! !
! xxFCTL ! - ! !
! xxFDBD ! - ! !
! xxFECD ! - ! !
! 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)!
-----

```

Notes :

xx = program prefix (ROOT, = first two characters of the selected transaction code).

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	! -	!

! CODE	! PROCEDURES	! OPTION	! COMMENTS
! PACL95	! 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	! GET0	! -	!
! 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.

! 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	! -	!

! 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.

SECURITY SYSTEM(S) INTERFACE EXTENSION (SEC)

Sub-programs are the interface between VA Pac and the site's security system.

For RACF, the sub-program coded PACSECU8 must be installed in an authorized library by copying the module which is found in the batch load-module library (PAC.MBR8).

```
-----  
!  PROGR.    ! Renamed    ! Option ! Security system    !  
!-----  
! PACSECRA ! PACSECU8  ! DEC    ! RACF                !  
! PACTSS   !           ! -      ! TOPSECRET (Batch)  !  
! PACTSSC  !           ! -      ! TOPSECRET (CICS)   !  
-----
```

For more information on the operation of this extension, refer to Chapter 'Installation', Sub-chapter 'System Complement: Security System Interface', and to the 'Security Systems Interface' Reference Manual.

2.5. VA PAC SYSTEM PARAMETER LIBRARY

THE VA PAC SYSTEM PARAMETER LIBRARY (SY)

It contains all parameters for the utilities used in the batch installation and operation procedures, as well as in the PAF standard user procedures.

```
.Size:      Approximately 25 blocks of 6,080 bytes
.Organisation: PDS
.DCB:      Recfm=FB,Lrecl=80,Blksize=6080
.DSNAME:   &INSDSN..&ROOT.&ROOT.SY
```

Information relating to names, disks (catalog) etc. is initialised according to the initial installation parameters.

CAUTION: THIS INFORMATION SHOULD NOT BE MODIFIED, EXCEPT ACCORDING TO THE NOTES BELOW.

```
-----
! MEMBER    ! CONTENTS / FORMAT! NOTES          !
!-----!
! DFxxxxAE ! DELETE/DEFINE AE ! EDITABLE (1)  PARM proc.  !
! DFxxxxAP ! DELETE/DEFINE AP ! EDITABLE      -      -    !
! DFxxxxSC ! DELETE/DEFINE SC !                  !
! DFxxxxSG ! DELETE/DEFINE SG !                  !
! DFxxxxSR ! DELETE/DEFINE SR !                  !
! DFxxxxSS ! DELETE/DEFINE SS !                  !
! DFxxxxSP ! DELETE/DEFINE SP !                  !
! DFxxxxTS ! DELETE/DEFINE TS ! VA Pac/T.Connection Bridge !
! DFxxxxGS ! DELETE/DEFINE GS ! EDITABLE (2)  GPRT proc.  !
! DFSYSPAF ! DEFINE           ! EDITABLE (3)          !
! DLSYSPAF ! DELETE           !                  !
! DFSYSEXT ! DEFINE           ! EDITABLE (5)          !
! DLSYSEXT ! DELETE           !                  !
! DFSYIANA ! DEFINE           ! EDITABLE              !
! DLSYIANA ! DELETE           !                  !
! DFxxxxPA ! DELETE/DEFINE PA ! EDITABLE (4)          !
! DFTABTDF ! DELETE/DEFINE TD ! Pactables: Descriptions !
! DFDSMSDC ! DELETE/DEFINE DC ! DSMS: VA Pac Elements  !
! (To be used if DSMS is projected but not actually instal-!
! led.)
!-----
```

- (1) This size may vary depending on the 'user parameters' contained in the file (for more information, refer to the appropriate chapter describing each file.)
- (2) This size depends on the size of the Extraction Master Paths created by the user.

- (3) This size depends on the volume of PAF batch requests made when using the file.
- (4) This size depends on the volume of PAF on-line request made when using the file.
- (5) This size depends on the volume of deep extractor requests.

```

-----
! MEMBER      ! CONTENTS / FORMAT! NOTES      !
-----
! LxxxxxAE   ! LISTCAT of AE    !           !
! VERIFAN    ! VERIFY (PAC7AN)  !           !
! VERIFAR    ! VERIFY (PAC7AR)  !           !
! VERIFAJ    ! VERIFY (PAC7AJ)  !           !
! VERIFAG    ! VERIFY (PAC7AG)  !           !
! VERIFAE    ! VERIFY (PAC7AE)  !           !
! VERIFAP    ! VERIFY (PAC7AP)  !           !
! VERIFSC    ! VERIFY (PAC7SC)  !           !
! VERIFSG    ! VERIFY (PAC7SG)  !           !
! VERIFSP    ! VERIFY (PAC7SP)  !           !
! VERIFSR    ! VERIFY (PAC7SR)  !           !
! VERIFSS    ! VERIFY (PAC7SS)  !           !
! VERIFAB    ! VERIFY (PAC7AB)  !           !
! VERIFAC    ! VERIFY (PAC7AC)  !           !
! VERIFTD    ! VERIFY (PAC7TD)  !           !
! VERIFEM    ! VERIFY (PAC7EM)  !           !
-----
! SRTREO1    ! SORT FIELDS      !           !
! SRTREO2    ! SORT FIELDS      !           !
! SRTQREO    ! SORT FIELDS      !           !
! SRTCPSN    ! SORT FIELDS      !           !
! SRTRVKE    ! SORT FIELDS      !           !
-----
! MAXKEY     ! Max record       !           !
! REPRO      ! IDCAMS input     !           !
! REPRO999   ! IDCAMS input     !           !
-----

```

2.6. VA PAC DATABASE PARAMETER LIBRARY

THE VA PAC DATABASE PARAMETER LIBRARY

. Size : Approx. 10 blocks of 6,080 Bytes
. Organisation : PDS
. DCB : Recfm=FB,Lrecl=80,Blksize=6080
. Dsname : &INDUN..&ROOT.&FILE.SY

This library contains the SYSIN of the IDCAMS utility called in the VA Pac database batch operation procedures.

Information relating to the file names and the disks (catalogue), is initialised according to the initial installation parameters.

. DELETE/DEFINES of the database files:

Their names have the DFxxnff format (xx=ROOT, nn=FILE, and ff=suffix of the relevant file.)

WARNING

The VA Pac database manager can modify the size of the files that make up the database, according to the changes it undergoes, in these members.

. LISTCAT of VSAM file AJ (VA Pac Journal):

Its name has the LIxxnAJ format.

```

-----
! Member      ! Contents or format! Notes
-----
! DFxxnnAN ! DELETE/DEFINE AN ! Installation & REST proc. !
! DFxxnnAR ! DELETE/DEFINE AR !      -      -      -      - !
! DFxxnnAJ ! DELETE/DEFINE AJ ! Instal. & REST ARCH proc. !
! DFxxnnAG ! DELETE/DEFINE AG ! Installation & REAG proc. !
! DFxxnnEM ! DELETE/DEFINE EM ! For the user application's!
!           !           ! error message file
-----
! PEI Function only:
! DFxxnnAB ! DELETE/DEFINE AB ! Installation & RSPE proc. !
! DFxxnnAC ! DELETE/DEFINE AC !      -      -      -      - !
-----
! Pac/Transfer Facility only:
! DFxxnnUV ! DELETE/DEFINE UV ! Creation of parameter file!
! DLxxnnJT ! DELETE          JT ! Compressed Journal
! DLxxnnTJ ! DELETE          TJ !      -      -
-----
! Pac/Impact Facility only:
! DFxxnnFP ! DELETE/DEFINE FP ! INFP procedure
-----
! VisualAge Pacbase / VisualAge Smalltalk Bridge only:
! DFxxnnVP ! DELETE/DEFINE VP !
! DLxxnnVP ! DELETE          VP !
-----
! LlxnnAJ ! LISTCAT of AJ      ! REST procedure
-----

```

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 (RTPE)
- . Release 2.0:
 - Generation-print Requests file retrieval (RPPG)

THE BATCH PROCEDURE LIBRARY

The procedures must be loaded in a special library called PROCLIB.

This library can be an existing library or one specially created for this purpose.

Its characteristics must be the following:

.Size : Approx. 200 blocks of 6,080 Bytes
.Organisation: PDS
.DCB : Recfm=FB,Lrecl=80,Blksize=6,080
.DSNAME : User-defined

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. 35,000 records
. Organization   : sequential
. Lrecl         : 80
. Blksize       : 12,560
. Utilization    : Batch
. Dsname        : &INDSN..&ROOT.&ROOT.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
. CI Size       : 4,096 (data) 1,024 (index)
. Key           : 12 (position 0)
. Utilization    : batch and on-line
. Dsname        : &INDSV..&ROOT.&ROOT.AE
```

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

```
. Size           : user parameters
. Organization   : VSAM-KSDS
. Recsize       : 80
. CI Size       : 4,096 (data and index)
. Key           : 7 (position 0)
. Utilization    : batch and TP
. Dsname        : &INDSV..&ROOT.&ROOT.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,
WorkStation 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: Administrator's Guide.

PARM builds the AE and AP files, and manages:

. A USER PARAMETER backup file: PE.

```
. Size           : all user parameters
. Organization   : sequential with generation
. Lrecl         : 80
. Blksize       : 6,160
. Utilization    : Batch
. Dsname        : &INDSN..&ROOT.&ROOT.PE(n)
```

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 45 records
.Organization   : VSAM-KSDS

.Reclsize       : 3,204
.CI Size        : 3,584 (data) 1,024 (index)
.Key            : 4 (position 0)
.Dsname        : &INDSV..&&ROOT.&ROOT.SC
```


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

```
.Size          : approximately 400 records
.Organization   : VSAM-KSDS
.Reclsize      : 4,605
.CI Size       : 5,120 (data) 1,536 (index)
.Key           : 5 (position 0)
.Utilization   : Batch only.
.Dsname        : &INDSV..&&ROOT.&ROOT.SG
```

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

```
.Size          : approximately 25 records
.Organization   : VSAM-KSDS
.Reclsize      : 4,605
.CI Size       : 5,120 (data) 512 (index)
.Key           : 5 (position 0)
.Utilization   : Batch only.
.Dsname        : &INDSV..&&ROOT.&ROOT.SR
```

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

```
.Size          : approximately 5 records
.Organization   : VSAM-KSDS
.Reclsize      : 4,605
.CI Size       : 5,120 (data) 512 (index)
.Key           : 5 (position 0)
.Utilization   : Batch only.
.Dsname        : &INDSV..&&ROOT.&ROOT.SP
```

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

```
.Size          : approximately 3,000 records
.Organization   : sequential
.Lrecl         : 119
.Utilization   : Batch only
.Dsname        : &INDSV..&&ROOT.&ROOT.SF
```

NOTE: for the generation of COBOL/VS extractors, replace the standard SF COBOL II skeleton file with a COBOL/VS skeleton file with the SF1 suffix.

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

```
.Size          : approximately 520 records  
.Organization  : VSAM-KSDS  
.Reclsize     : 4,605  
.CI Size      : 5,120 (data) 1,536 (index)  
.Key          : 5 (position 0)  
.Utilization  : Batch only  
.Dsname       : &INDSV..&&ROOT.&ROOT.SS
```

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2.9. EVOLVING FILES

2.9.1. VISUALAGE PACBASE DATABASE FILES

DATABASE FILES

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

.THE DATA FILE (AR)

```
.Organization : VSAM-RRDS
.Recsize      : 140
.C.I. size    : 2,048
.Utilization  : Batch and on-line
.Dsname       : &INDUV..&ROOT.&FILE.AR
.Size         : 14 records per C.I. of 2,048
```

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

The successive states of a given line from the various archived sessions form a chain; at the top of this chain is the most recent state of the line and at the end is the oldest state of the line. Programs never access a VA Pac line directly 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
.C.I. size    : 4,096 for index and data
.Key          : 43 (position 0)
.Utilization  : Batch and On-line
.Dsname       : &INDUV..&ROOT.&FILE.AN
.Size         : 75 records per C.I. of 4,096
```

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 a VA Pac line according to its position in the database and from the point of view of the consultation. It also ensures all the additional technical functions.

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

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.THE GENERATION-PRINTING REQUEST FILE (AG)

.Organization : VSAM-KSDS
.Reclsize : 150
.C.I. size : 4,096
.Key : 27 (position 0)
.Utilization : Batch and On-line
.Dsname : &INDUV..&ROOT.&FILE.AG
.Size : 27 records per C.I. of 4,096

Storage area for users which allows input and manipulation of user generation-printing requests. This file is rather small, however it is subject to considerable 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
.Reclsize : 167
.C.I. size : 512
.Utilization : Batch and on-line
.Dsname : &INDUV..&ROOT.&FILE.AJ
.Size : 3 records per C.I. of 512

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

These transactions are generally stored in the Journal Backup (PJ) file. 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: PJ file.

NOTE:

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

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The database backup is made of three sequential generation files.

.BACKUP FILE OF THE DATABASE (PC)

```
.Organization : sequential, generation
.DSNAME       : &INDUN..&ROOT.&FILE.PC(n)
.DCB          : RECFM=VB,LRECL=155,BLKSIZE=27,280
.Utilization  : Batch
.Size         : 149 bytes per data
               + 55 bytes per index
```

This is a common backup file of the VA Pac components: Index (AN), Data (AR), in a sequential format.

.BACKUP FILE OF THE JOURNAL (PJ)

```
.Organization : sequential, generation
.DSNAME       : &INDUN..&ROOT.&FILE.PJ(n)
.DCB          : RECFM=FB,LRECL=167,BLKSIZE=6,179
.Utilization  : Batch
```

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

.BACKUP OF THE GENERATION-PRINTING REQUEST FILE (PG)

```
.Organization : sequential, generation
.DSNAME       : &INDUN..&ROOT.&FILE.PG(n)
.DCB          : RECFM=FB,LRECL=150,BLKSIZE=6,150
.Utilization  : Batch
```

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

2.9.2. SEQUENTIAL BACKUP FILES

SEQUENTIAL BACKUP FILES

The database backup is made of three sequential generation files.

.BACKUP OF THE DATABASE (PC)

.Organization : sequential, generation
.DSNAME : &INDUN..&ROOT.&FILE.PC(n)
.DCB : RECFM=VB;LRECL=155;BLKSIZE=27,280
.Utilization : Batch
.Size : 149 bytes per data
+ 55 bytes per index

This is a common backup file of the VA Pac components: Index (AN), Data (AR), in a sequential format.

.BACKUP OF THE JOURNAL (PJ)

.Organization : sequential, generation
.DSNAME : &INDUN..&ROOT.&FILE.PJ(n)
.DCB : RECFM=FB;LRECL=167;BLKSIZE=6,179
.Utilization : Batch

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

.BACKUP OF THE GENERATION-PRINTING REQUEST FILE (PG)

.Organization : sequential, generation
.DSNAME : &INDUN..&ROOT.&FILE.PG(n)
.DCB : RECFM=FB;LRECL=150;BLKSIZE=6,150
.Utilization : Batch

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

2.9.3. PEI FILES

PEI FUNCTION (PRODUCTION ENVIRONMENT INTERFACE) FILES

Three additional evolving files are managed by the system either on-line or in batch mode when the PEI function is available (Refer to the chapter corresponding to this function).

These files contain all data necessary for the management of the production environment.

.BATCH PRODUCTION ENVIRONMENT FILE (AB)

.Organization: VSAM-KSDS
.Reclsize : 110
.CI Size : 1,024 (index) 4,096 (data)
.Key : 26 (position 0)
.Utilization : batch and on-line(consultation only)
.Dsname : &INDUV..&ROOT.&FILE.AB
.Size : 37 records per C.I. of 4,096

.ON-LINE PRODUCTION ENVIRONMENT FILE (AC)

.Organization : VSAM-KSDS
.Reclsize : 110
.CI Size : 1,024 (index) 4,096 (data)
.Key : 26 (position 0)
.Utilization : batch and on-line
.Dsname : &INDUV..&ROOT.&FILE.AC
.Size : 37 records per C.I. of 4,096

.PEI BACKUP FILE (PP)

.Organization : sequential with generation
.DSNAME : &INDUN..&ROOT.&FILE.PP(n)
.DCB : RECFM=FB;LRECL=110;BLKSIZE=6,160
.Utilization : batch

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2.9.4. DSMS FILES

DEVELOPMENT AND SUPPORT MANAGEMENT SYSTEM (DSMS) FILE

An additional evolving file is accessed on-line or in batch mode when the DSMS function is available on-site (for more details, 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 VisualAge Pacbase sign-on screen).

DSMS PACBASE ENTITY FILE (DC)

```
.Organization : VSAM-KSDS
.Recsize      : min: 50, max: 168
.CI Size      : 4,096
.Key          : 31 (position 2)
.Utilization  : accessed by batch and on-line
                updates.
.Batch DDNAME : PAC7DC (UPDT, REST and RESY procs.)
.CICS DDNAME  : xxy0DC
                (xx = ROOTD, y = ROOT2 of the DSMS installation)
```

This file is allocated and initialized at the time of the installation of the DSMS Function. The definition supplied when installing VA Pac must be used when the DSM variant has been required, and when the DSMS function has not yet been installed on the site.

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2.9.5. PAF FILES

PACBASE ACCESS FACILITY (PAF) FILES

.On-line PAF work file (PA) for PAF-TP and PUF-TP

Indexed work file enabling the PAF and PUF functions to be used for all on-line user programs accessing databases which have the same root.

```
.Organization : VSAM-KSDS
.Recsize      : average: 200, max: 539
.CI Size      : 4,096
.Key          : 37 (position 2)
.Utilization  : updated by the xxTPST and/or xxTPWS
                sub-programs called by On-Line user
                programs.
.Dsname       : &INDSV..&ROOT.&ROOT.PA
.DDNAME       : xxxxPA
                (xx = ROOT)
```

.Batch PAF work file

Indexed work file enabling the PAF function to be used for all user batch programs accessing databases which have the same root. This file is allocated for the job duration and is destroyed at the end of the job.

```
.Organization : VSAM-KSDS
.Recsize      : average: 170, max: 468
.CI Size      : 4,096
.Key          : 12 (position 0)
.Utilization  : updated by the PBBT98 sub-program,
                which is called by PBBTST/PBBTWS
                (PAF sub-programs called by the
                user programs).
.Dsname       : &INDUV..SYSPAF.&USER
.DDNAME       : SYSPAF
```

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PAF-PDM EXTENSION

.Extraction path file (GS), containing the user's extractors and macro-commands:

```
.Organization : VSAM-KSDS  
.Recline      : 203  
.Key          : 25 (position 0)  
.Utilization  : Batch and on-line  
.Dsname       : &INDUV..&ROOT.&ROOT.GS
```

2.9.6. Pac/Impact FILES

Pac/Impact FILES

. File of already-impacted criteria (FQ)

.Organization: Sequential with generation
.DCB : RECFM=FB;LRECL=100;BLKSIZE=21600
.DSNAME : &INDUN..&USER.&ROOT.&FILE.FQ(n)
.Utilization : Memorize those impact search criteria
that have already been processed

. Search criteria or entry point file (FH)

.Organization: Sequential with generation
.DCB : RECFM=FB,LRECL=160,BLKSIZE=24000
.DSNAME : &INDUN..&USER.&ROOT.&FILE.FH(n)
.Utilization : Memorize impact search criteria for the
next IANA execution

. Reduced file of criteria for purge (FR)

.Organization: Sequential with generation
.DCB : RECFM=FB,LRECL=72,BLKSIZE=21600
.DSNAME : &INDUN..&USER.&ROOT.&FILE.FR(n)
.Utilization : Purge the impact search criteria in a
text editor

. Impact result file (FO)

.Organization: Sequential with generation
.DCB : RECFM=FB,LRECL=260,BLKSIZE=26000
.DSNAME : &INDUN..&USER.&ROOT.&FILE.FO(n)
.Utilization : Memorize all the results of the impact
analysis.

. File of entities to be analyzed (FP)

.Organization: VSAM-KSDS
.Resize : 9
.CI size : 4096
.Key : 9 (position 0)
.DSN : &INDUV..&USER.&ROOT.&FILE.FP
.Utilization : Restrict the impact analysis to those
entities specified in the file

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2.9.7. PAC/TRANSFER FILES

PAC/TRANSFER FILES

Parameter file (UV):

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

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

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

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

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

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2.9.8. VA PAC-VA SMALLTALK INTERFACE FILES

'VISUALAGE SMALLTALK - VISUALAGE PACBASE INTERFACE' FILES

Character-correspondence table

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

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

```
.Organization: Sequential  
.Recline      : 80
```

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2.9.9. VA PAC-TEAMCONNECTION INTERFACE FILES

'VISUALAGE PACBASE - TEAMCONNECTION BRIDGE' FILES

. Target-library and -session file (TS)

```
.Organization: VSAM-KSDS
.Recsize      : 80
.CI size      : 1024
.Key          : 14 (position 1)
.DSN         : $INDSV..$ROOT.$ROOT.TS
.Utilization  : batch
```

2.10. COMPLEMENTARY LIBRARIES AND FILES

COMPLEMENTARY LIBRARIES AND FILES

THE DICTIONARY EXTENSION LIBRARY (SYDI)

. Size : approximately 100 blocks of 6,080 bytes
. Organization: PDS
. DCB : Recfm=FB;Lrecl=80;Blksize=6,080
. Dsname : &INDSN..&ROOT.&ROOT.SYDI

- . PAF FUNCTION: in member PAFDIC, batch transactions on Data Element, Data Structure and Segment entities required by PAF Table descriptions and planned for integration in a Dictionary.
- . PAF FUNCTION EXTENSION: in member PAFPTEX, batch transactions on Data Element and User Entities .PPTX "Extraction Master Path", planned for integration in a Dictionary.
- . In member PAFJCL, a JCL, sample of a batch user program using PAF.
- . In member PTEXJCL, a sample of a user extractor execution JCL (PAF extension).
- . PQC function: in member PQCRULE, the standard quality rule file.
- . PQC FUNCTION PERSONALIZATION: in member PQCUPDT, batch transaction on Data Element and .QPAQC User Entities planned for integration in a Dictionary.
- . ERROR MESSAGE UPDATE UTILITIES (user applications): in member EMUPDT, batch transactions on Segment Entities and Batch Programs (UTEMLD and UTEMUP), planned for integration in a Dictionary. These will be used for creating error-message loading and update programs for a given application, according to a site's requirements.

```

-----
! Member      ! Contents or format! Comments      !
-----
! Specific members of the PAF and PAF+ functions !
! PAFDIC      ! Batch transactions! PAF Dictionary !
! PAFJCL      ! JCL                ! PAF batch user program !
!             !                    ! sample           !
! PAFPTEX     ! Batch transactions! PAF+ Dictionary !
! PTEXJCL     ! JCL                ! User extractor execution !
!             !                    ! JCL sample       !
-----
! Specific members of the Pacbench Quality Control function!
! PQCRULE     ! Sequential file   ! Standard rules      !
! PQCUPDT     ! Batch transactions! PQC Dictionary      !
-----
! Error message update utility source (user applications) !
! EMUPDT      ! Batch transactions! Programs and Segments !
-----
! Specific members of the Documented COBOL Option (DCOB) !
! DCOBDEF     ! DEFINE work file ! DSN parametered by PRMSYS !
! DCOBDEL     ! DELETE - - - - - ! - - - - -           !
! DCOBIN      ! Description param.! (See chapter dedicated to !
!             ! COBOL SYSPRINT   ! the DCOB procedure.)    !
! DCOBOUT     ! IEBGENER SYSIN   ! To justify the COBOL    !
!             !                   ! SYSPRINT on 133 characters!
! DCOBSRT     ! SORT FIELDS      ! DO NOT MODIFY          !
-----

```


THE VINS-PROCEDURE INPUT LIBRARY: SYEN

. Size : approximately 25 tracks
. Organization: PDS
. Lrecl : 117
. Blksize : 7,020
. Utilization : Batch
. Dsname : &INDSN..&ROOT.&ROOT.SYEN

This file contains the input to the VINS procedure. (For further details, refer to the corresponding chapter in the Batch Procedures, Administrator's Guide.)

The library contains:

VGEDIC : Definitions of entities in the VisualAge Smalltalk Dictionary that are to be integrated in the VisualAge Pacbase Dictionary.

This integration is required for correct operation of the VisualAge Pacbase-VisualAge Smalltalk Bridge.

TEAMDIC: Definitions of entities in the 'TeamConnection' Dictionary.

This integration is required for correct operation of the VisualAge Pacbase - TeamConnection Bridge.

THE PACDESIGN METHODOLOGY LIBRARY: SYMT

. Size : approximately 100 blocks of 6,080 bytes
. Organization: PDS
. DCB : Recfm=FB;Lrecl=80;Blksize=6080
. Dsname : &INDSN..&ROOT.&ROOT.SYMT

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

- In the Dictionary: integration of transactions associated with the Data Elements and User entities of the Pacdesign methodology in use.
- In the VA Pac system: integration of transactions defining methodology choices (User Parameters).

. These transactions are grouped in the following files:

! Member	! Contents	! Proc.	!
! DESMER	! Batch transactions	! UPDT	!
!	! MERISE methodology	!	!
! PARMMER	! Parameterization	! PARM	!
!	! MERISE Methodology	!	!
! DESADM	! Batch transactions	! UPDT	!
!	! SSADM Methodology	!	!
! PARMADM	! Parameterization	! PARM	!
!	! SSADM Methodology	!	!
! DESYSM	! Batch transactions	! UPDT	!
!	! YSM Methodology	!	!
! PARMYSM	! Parameterization	! PARM	!
!	! YSM Methodology	!	!
! DESIFW	! Batch transactions	! UPDT	!
!	! IFW methodology	!	!
! DESIFWP	! Pre-loading	! UPDT	!
!	! IFW methodology	!	!
! PARMIFW	! Parameter setting	! PARM	!
!	! IFW methodology	!	!
! DESOMT	! Batch transactions	! UPDT	!
!	! OMT methodology	!	!
! PARMOMT	! Paramétrage	! PARM	!
!	! OMT methodology	!	!

DO NOT MODIFY THE CONTENTS OF THESE FILES!

THE MULTI-SCREEN OLSD VARIANT SOURCE LIBRARY

This additional library needs to be loaded only for users of the multi-screen variant of the OLSD function.

It contains the source sub-programs for the management of the screen message "ZAR980" for all dedicated generators for which this variant is available.

. Size : approximately 250 blocks of 6,080 bytes
. Organization: PDS
. DCB : Recfm=FB;Lrecl=80;Blksize=6080
. Dsname : &INDSN..&ROOT.&ROOT.MSO

! Member	! Contents	!
! ZARCVS	! MVS/CICS and VSE/CICS Cobol II	!
! ZARG7	! GCOS7/TDS	!
! ZARG8	! GCOS8/DMIV and TP8	!
! ZARICL	! ICL	!
! ZARBUR	! Unisys A	!
! ZARDEC	! DEC (characters)	!
! ZARDE2	! DEC (fields)	!
! ZARTRM	! DEC (assembler)	!
! SCRDEC	! DEC sub-program	!
! PACVMSS	! Digital VMS	!
! VMSUTIL	! Digital VMS	!
! HPFORM	! HP3000 screen-message processing	!
! ZARMF1	! Microfocus sub-program	!
! SCRCODIF	! Microfocus sub-program	!
! SCRIOPAR	! Microfocus sub-program	!
! SCRPEINT	! Microfocus sub-program	!
! SCRSAISI	! Microfocus sub-program	!
! ZARMFO	! Product-reserved	!
! SCRMF0	! Product-reserved	!
! WEBCVS	! MVS/CICS (WEB)	!

THE LIBRARY OF SQL SOURCES FOR ACCESS TO DB2 CATALOG

This additional library needs be loaded by users of the SQL variant (ex-DB2 variant) only.

- . Size : approximately 25 blocks of 6,080 bytes
- . Organization: PDS
- . DCB : Recfm=FB;Lrecl=80;Blksize=6080
- . Dsname : &INDSN..&ROOT.&ROOT.SQL

SQL INSTALLATION VARIANT

```
-----  
! Member      ! Contents                                     !  
-----  
! PACR12      ! Update of DB2 catalog                       !  
!             ! DB2 program COBOL source to be compiled    !  
!             ! under name xxRS12 (xx=ROOT).              !  
-----
```

INTERACTIVE SQL APPLICATION IN VA PAC

With the B.....GEN choice, the xxQL45 program calls the xxQL46 program, which generates the update SQL and calls the SQL update module xxRS12.

The xxQL45 and xxQL46 programs are VA Pac standard programs shipped in the form of executable modules.

The xxRS12 module, shipped in the form of a COBOL source program in member PACR12, must be prepared and installed as any DB2 standard program:

- Pre-processor preparation, resulting in a COBOL source and a DBRM (same name as the COBOL source).
- Compilation and link-edit of the COBOL source, resulting in an executable program (xxRS12).

The plan is built with the DBRM, using the DB21 TSO application (this being the BIND operation).

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

SPECIAL AUTHORIZATIONS

The TSO UserID used for the BIND must allow for the consultation of the following catalog tables:

- SYSIBM.SYSDATABASE
- SYSIBM.SYSTABLESPACE
- SYSIBM.SYSTABLES
- SYSIBM.SYSCOLUMNS

NOTES:

- . Updates are performed via SQL dynamic orders.
- . DB2 tables or views which are accessed or updated are not qualified, i.e. the user's CICS UserID implicitly qualifies the DB2 object's name.

THE LIBRARY OF COBOL/VS SUB-PROGRAMS: MCOBVS

This library must be loaded for the development of user PAF programs in COBOL/VS. The standard-supplied PAF sub-programs are in COBOL II.

The PAF COBOL/VS sub-programs, as well as those of the Security System Interface (where this is operating on the site), must be loaded in the load-module libraries of the PAF user programs.

. Size : approximately 100 blocks of 6,144 bytes
. Organization: PDS
. DCB : Recfm=U,Blksize=6144
. Dsname : user-defined

```
-----  
! CODE ! FUNCTION! Comments !  
-----  
! ! ! BATCH !  
! PBBTST ! PAF ! Sub-program called by user batch pgms. !  
! PBBTWS ! - ! - - - - - !  
! PBBT98 ! - ! - - - PBBTST & PBBTWS !  
! PACSECB! SEC ! Security System Interface !  
-----  
! ! ! CICS (xx=ROOT, on-line program prefix)!  
! xxTPST ! PAF ! Sub-pgm called by on-line user pgm. !  
! xxTPWS ! - ! - - - - - !  
! xxSECT ! SEC ! Security System Interface !  
-----
```

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.

3.2. ON-LINE ENVIRONMENT (CICS)

ON-LINE ENVIRONMENT (CICS)

The monitor in use is CICS ESA (release 3.1 +).

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.

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).

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, independently from the database management, in order to:

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

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.

In CICS ESA Release 3.2 or higher, the UCTRAN option can be controlled at transaction level.

VA Pac transactions must have the UCTRAN=NO option. (to use uppercase letters only, set the UCTRAN option to YES).

In CICS ESA 3.1, and from CICS ESA 3.3, if the UCTRAN option of the terminal is active, it is automatically inhibited by VA Pac for the time of the connection, so that this control is available.

At the time of installation, 3 routine versions are offered. The xxUCTR routine is to be used in a CICS ESA 3.1 context, the xxUCTZ routine (renamed xxUCTR) is to be used with a CICS ESA release higher or equal to 3.3, and the xxUCTX routine (renamed xxUCTR) is to be used with a CICS ESA release 3.2.

The latter can be used to deactivate the modification of the UCTRAN parameter in all CICS releases, which is useful if you wish to work always in uppercase letters.

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 PACBASE itself does not perform this transformation in batch mode.

3.3. ACCESS METHODS (VSAM)

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 PACBASE 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.

3.4. BATCH ENVIRONMENT

THE BATCH ENVIRONMENT

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

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

The JCL provided for installation allows for extensive blocking factors for the management procedures which process large volumes of data, in order to improve performance. The blocking factor chosen in these procedures (REOR, MLIB, GPRx) is approximately half a track on a 3,390 disk. Therefore, the size of the virtual memory can increase to 4,096 K (as in the case of the PTU220 program in the REOR procedure).

Using BATCH LSR in the UPDT and GPRT procedures also influences the size of the processing region (see Subchapter 'Efficiency Enhancement' below.)

If these blocking factors are not suitable (other types of disk, reduction of the virtual memory size), they may be modified.

3.5. 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:

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

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.

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)

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:

3,000,000 / 71 = 42,254 CI's,
42,254 / 141 = 300 DATA CA's,

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:

1,000,000 / 14 = 71,429 CI's,
71,429 / 270 = 265 CA's,

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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FILE SIZE

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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:

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

3.6. 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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3.6.1. 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 DFxxnnAN member of the VA Pac Database parameter PDS.

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 (DFxxnnAR member of SY PDS) 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.)

3.6.2. 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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3.6.3. 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.

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 ! ! OF !	! AN FILE !				! AR FILE !	
	! STRINGS !	! STRINGS !	! INDEX ! ! BUFFERS !	! DATA ! ! BUFFERS !	! STRINGS !	! DATA ! ! BUFFERS !
! 1 !	! 1 !	! 4 !	! 4 !	! 1 !	! 2 !	
! 5 !	! 5 !	! 8 !	! 7 !	! 5 !	! 6 !	
! 10 !	! 10 !	! 13 !	! 11 !	! 10 !	! 11 !	
! 20 !	! 20 !	! 23 !	! 21 !	! 20 !	! 21 !	
! 30 !	! 30 !	! 33 !	! 31 !	! 30 !	! 31 !	
! 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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3.6.4. 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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```

-----
!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 !
! 0.2 ! 3  4  5  5  6  6  7  7  7  8  8  8  8 !
! 0.3 ! 3  4  5  6  7  7  8  8  9  9  9  10 10 !
! 0.4 ! 3  5  6  7  7  8  9  9 10 10 11 11 12 !
! 0.5 ! 3  5  6  7  8  9  9 10 11 11 12 12 13 !
! 0.6 ! 3  5  7  8  9  9 10 11 12 12 13 14 14 !
! 0.7 ! 3  6  7  8  9 10 11 12 13 13 14 15 15 !
! 0.8 ! 4  6  7  9 10 11 12 13 13 14 15 16 16 !
! 0.9 ! 4  6  8  9 10 11 12 13 14 15 16 17 17 !
! 1.0 ! 4  7  8 10 11 12 13 14 15 16 17 18 19 !
! 1.1 ! 4  7  9 10 11 13 14 15 16 17 18 19 20 !
! 1.2 ! 4  7  9 10 12 13 14 15 16 18 19 20 21 !
! 1.3 ! 4  7  9 11 12 14 15 16 17 18 19 20 22 !
! 1.4 ! 4  7  9 11 13 14 15 17 18 19 20 21 22 !
! 1.5 ! 4  8 10 12 13 15 16 17 19 20 21 22 23 !
! 1.6 ! 4  8 10 12 14 15 17 18 19 21 22 23 24 !
! 1.7 ! 5  8 10 12 14 16 17 19 20 21 23 24 25 !
! 1.8 ! 5  8 11 13 14 16 18 19 21 22 23 25 26 !
! 1.9 ! 5  8 11 13 15 17 18 20 21 23 24 26 27 !
! 2.0 ! 5  9 11 13 15 17 19 20 22 24 25 26 28 !
-----

```

4. INSTALLATION

4.1. 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.

4.2. INSTALLATION TAPE

THE INSTALLATION TAPE

The installation tape, or "3480" cartridge (6,250 BPI, standard labels) contains the following files:

RANK	LABEL	LRECL	BLKS	CONTENTS
1	INST.JCL	80	11440	Initial preparation JCL.
2	INST.MOD		6144	Load module MM1JCL, utility for JCL preparation.
3	PAC.JCL	80	11440	JCL skeleton for installation and operation.
4	PAC.MBR8		6144	Batch load-modules
5	PAC.MTR8		6144	On-line load-modules
6	PAC.AE0	80	11440	Error message source file and Documentation.
7	PAC.SRCDIC	80	3440	Dictionary completions
8	PAC.SC	3204	3204	Batch language skeleton file
9	PAC.SG	4605	4605	OLSD and DBD skeleton file.
10	PAC.SR	4605	4605	COBOL generator skeleton file.
11	PAC.SS	4605	4605	CSSD skeleton file.
12	PAC.RES1	4605	4605	Reserved to product
13	PAC.SP	4605	4605	PAF-PDM variable skeleton file.

RANK	LABEL	LRECL	BLKS	CONTENTS
14	PAC.SF	119	11900	PAF Extension fixed skeleton file.
15	PAC.INSDIC	117	7020	VINS proc. input
16	PAC.PCTEST	155 (VB)	23405	Test database backup
17	PAC.SRCMTH	80	3440	WorkStation methodologies
18	PAC.SRCSQL	80	6080	SQL source PDS
19	PAC.SOURCE	80	6080	Source PDS: .ZAR980 screen-msg .TOPSECRET interface
20	PAC.MCOBVS		6144	COBOL/VS sub-program (PAF)
21	PAC.SFCOBVS	119	11900	COBOL/VS fixed skeleton file (XPAF)

In case of a bilingual installation (English-French), the installation tape contains the following additional files:

RANK	LABEL	LRECL	BLKS	CONTENTS
				BILINGUAL:
22	PAC.AEOB	80	11440	Error messages and Documentation.
				ENGLISH:
23	PAC.AEOA	80	11440	Error messages and Documentation.
24	PAC.SCB	3204	3204	Batch language skeleton file.
25	PAC.SGB	4605	4605	OLSD/DBD skeleton file.
26	PAC.SRB	4605	4605	COBOL generator skeleton file.
27	PAC.SSB	4605	4605	CSSD skeleton file.
28	PAC.PCB	155	23405	Test database.

For correction tapes or cartridges:

RANK	LABEL	LRECL	BLKS	CONTENTS
29	PAC.PATCH	80	6080	Patch JCL PDS
30	PAC.README	133	5320	"README" PDS
		(FBA)		Info. on correction release

4.3. *INSTALLATION PREPARATION*

INSTALLATION PREPARATION

It is recommended to copy all the VisualAge Pacbase preparation, installation, and operation JCLs in a specific PDS.

This PDS allocation is not supplied and must be performed in advance by the person responsible for the installation.

This PDS must have the following characteristics:

- Lrecl=80
- Size: about 60 tracks of a 3380 disk, 30-directory blocks.

Then, copy the initial JCL from the VA Pac installation tape ('INST.JCL') into the allocated PDS, using one of the site's utilities (IEBGENER, for example).

INITIAL JCL 1

The initial JCL contains the JOB's necessary for the generation of VA Pac complete installation and operation JCL.

This complete JCL is obtained via a parameterized skeleton JCL ('PAC.JCL'), thus allowing each site's specific needs to be taken into account.

This JCL is processed by an 'INST.MOD' file utility, which generates a JCL taking into account the parameters specified by the user.

The INITIAL JCL includes three JOBS that should be adapted to the site's requirements:

- . Copy of the installation tape or cartridge provided with the product onto a user media. This will form the VA Pac backup, and it must be used for the actual installation.
- . Downloading, via IEBCOPY, of the MM1JCL utility contained in the INST.MOD file into a load-module library already existing on the site or allocated for this purpose. This operation is executed for the first installation of the system only.
- . Execution of MM1JCL which creates the actual installation and operation JCL.

Complete the JCL lines for this execution as follows: //STEPLIB DD
DSN= <--- library containing the MM1JCL
//SYSUT1=<--- tape or cartridge number

//SYSUT2 DD DSN= <--- recipient file for the complete installation
and operations JCL.

This file may be either a member of the PDS initially designed to store
all the JCLs, or a sequential file of your choice.

Enter the required parameters (refer to the following subchapters).

THE MM1JCL OUTPUT SHOULD BE KEPT: IT MAY BE USED FOR RE-
INSTALLATIONS.

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4.3.1. INITIAL JCL

```

$CO***** VA PACBASE 2.5 MVS/CICS $VV $DATE *****
//PACBASE0 JOB (---), '3480', CLASS=D, MSGCLASS=A
//ALLOC EXEC PGM=IEHINITT
//TCGI DD DISP=SHR, UNIT=(3480, , DEFER), VOL=(, RETAIN, SER=$CGICAR)
//TINST DD DISP=SHR, UNIT=(3480, , DEFER), VOL=(, RETAIN, SER=-----)
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
TINST INITT SER=-----, OWNER='-----', DISP=REWIND
/*
//PACPOP PROC INDEX='$INPRO', NAME=XXX, LAB=N
//GENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=&INDEX..&NAME, DISP=SHR,
// VOL=(, RETAIN, REF=* .ALLOC.TCGI), LABEL=&LAB
//SYSUT2 DD DSN=&INDEX..&NAME, DISP=(, KEEP),
// VOL=(, RETAIN, REF=* .ALLOC.TINST), LABEL=&LAB,
// DCB=* .SYSUT1
// PEND
//STEP1 EXEC PACPOP, LAB=01, NAME=JCL, INDEX=INST
//STEP2 EXEC PACPOP, LAB=02, NAME=MOD, INDEX=INST
//STEP3 EXEC PACPOP, LAB=03, NAME=JCL
//STEP4 EXEC PACPOP, LAB=04, NAME=MBR8
//STEP5 EXEC PACPOP, LAB=05, NAME=MTR8
//STEP6 EXEC PACPOP, LAB=06, NAME=AE0
//STEP7 EXEC PACPOP, LAB=07, NAME=SRCDIC
//STEP8 EXEC PACPOP, LAB=08, NAME=SC
//STEP9 EXEC PACPOP, LAB=09, NAME=SG
//STEP10 EXEC PACPOP, LAB=10, NAME=SR
//STEP11 EXEC PACPOP, LAB=11, NAME=SS
//STEP12 EXEC PACPOP, LAB=12, NAME=RES1
//STEP13 EXEC PACPOP, LAB=13, NAME=SP
//STEP14 EXEC PACPOP, LAB=14, NAME=SF
//STEP15 EXEC PACPOP, LAB=15, NAME=INSDIC
//STEP16 EXEC PACPOP, LAB=16, NAME=PCTEST
//STEP17 EXEC PACPOP, LAB=17, NAME=SRCMTH
//STEP18 EXEC PACPOP, LAB=18, NAME=SRCSQL
//STEP19 EXEC PACPOP, LAB=19, NAME=SOURCE
//STEP20 EXEC PACPOP, LAB=20, NAME=MCOBVS
//STEP21 EXEC PACPOP, LAB=21, NAME=SFCOBVS
//STEP22 EXEC PACPOP, LAB=22, NAME=AE0B
//STEP23 EXEC PACPOP, LAB=23, NAME=AE0A
//STEP24 EXEC PACPOP, LAB=24, NAME=SCB
//STEP25 EXEC PACPOP, LAB=25, NAME=SGB
//STEP26 EXEC PACPOP, LAB=26, NAME=SRB
//STEP27 EXEC PACPOP, LAB=27, NAME=SSB
//STEP28 EXEC PACPOP, LAB=28, NAME=PCB
//STEP29 EXEC PACPOP, LAB=29, NAME=PATCH
//STEP30 EXEC PACPOP, LAB=30, NAME=README
//PACBASE1 JOB (---), 'MM1JCL', CLASS=D, MSGCLASS=A
//COPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//SYSUT3 DD UNIT=SYSDA, SPACE=(TRK,10)
//SYSUT4 DD UNIT=SYSDA, SPACE=(TRK,10)
//IM DD DISP=OLD, UNIT=3480, VOL=(, RETAIN, SER=-----),
// DSN=INST.MOD, LABEL=2
//OM DD DISP=SHR, DSN=----.----.----
//SYSIN DD *
C I=((IM,R)),O=OM
/*
//PACBASE2 JOB (---), 'JCL INSTALLATION', CLASS=D, MSGCLASS=A
//MM1JCL EXEC PGM=MM1JCL
//STEPLIB DD DISP=SHR, DSN=----.----.----
//SYSOUT DD SYSOUT=A
//SYSUT1 DD DSN=PAC.JCL, DISP=OLD,
// UNIT=3480, VOL=(, RETAIN, SER=-----), LABEL=3
//SYSUT3 DD UNIT=SYSDA, SPACE=(CYL,(5,2)), DCB=BLKSIZE=4160
//SYSUT4 DD UNIT=SYSDA, SPACE=(CYL,(5,2)), DCB=BLKSIZE=4160
//SYSUT8 DD DUMMY, DCB=BLKSIZE=1370
//SYSUT9 DD DUMMY, DCB=BLKSIZE=1370
//*****
/*
/* --- CREATION DU JCL D'INSTALLATION PAR 'MM1JCL'

```

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```

//* *****
//*
//* .MODIFIER LA LISTE DES COMMANDES FOURNIES EN PRECISANT LES
//* VARIANTES D'INSTALLATION (S'IL Y EN A), EN DEMANDANT SI
//* NECESSAIRE LA SELECTION DE PORTIONS DE JCL D'INSTALLATION
//* (MODULES DE JCL), EN DONNANT DES VALEURS APPROPRIEES AUX
//* PARAMETRES D'INSTALLATION, ET EN PRECISANT EVENTUELLEMENT
//* DES LIGNES A AJOUTER EN TETE OU EN FIN DE CHAQUE MODULE
//* DE JCL.
//* *****
//*
//* --- CREATION OF INSTALLATION JCL THROUGH 'MMIJCL'
//* *****
//*
//* .MODIFY THE LIST OF THE SUPPLIED COMMANDS BY ENTERING THE
//* INSTALLATION VARIANTS (IF ANY), BY ASKING, IF NECESSARY, A
//* SELECTION OF PARTS OF INSTALLATION JCL (JCL MODULES), BY
//* GIVING THE APPROPRIATE VALUES TO THE INSTALLATION PARAMETERS,
//* AND, IF NECESSARY, BY SPECIFYING THE LINES TO BE ADDED
//* AT THE BEGINNING OR AT THE END OF EACH JCL MODULE.
//* *****
//SYSPRM DD DUMMY
//SYSUT2 DD ----- MEMBRE DE PDS OU FICHER SEQUENTIEL
//* RECVANT LE JCL (LRECL=80)
//* PDS MEMBER OR SEQUENTIAL FILE RECEIVING
//* THE INSTALLATION JCL (LRECL=80)
//SYSIN DD *
===SELL <> .LANGUAGE SELECTION (ENG OR FRA)
===SELV SQL .PACBASE DB2 SQL
               .SQL DB2 PACBASE
===SELV PEI .PACBASE PRODUCTION ENVIRONMENT INTERFACE
               .PACBASE ENVIRONNEMENT PRODUCTION
===SELV TAB .PACTABLES
===SELV DSM .DSMS
===SELV SEC .PACBASE SECURITY INTERFACE OPTION
               .PACBASE INTERFACE SYSTEME DE SECURITE
===SELV ROLD .RETRIEVAL OF OLD PACBASE
               .REPRISE ANCIENS PACBASE
===SELV PUF .MODULE PUF-TP
               .PUF-TP FUNCTION
===SELV S2K .MODULE Pac/Impact
               .Pac/Impact
===SELV PACTR .MODULE PAC/TRANSFER
               .PAC/TRANSFER FACILITY
===SELV VISP .VISUALAGE SMALLTALK - PACBASE BRIDGE
               .PONT VISUALAGE SMALLTALK - PACBASE
===SELV TEAM .VA PAC - TEAMCONNECTION BRIDGE
               .PONT VA PAC - TEAMCONNECTION
===PRM PRFJ=PACIN .JOB NAMES PREFIXES (MAX OF 5 CHARACTERS)
               .PREFIXE NOMS DE JOBS (5 CARACTERES MAXI)
===PRM CCPT=<> .JOB ACCOUNTING CODES (JOB CARDS)
               .CODE COMPTABLE JOBS (CARTES JOB)
===PRM CLASSJ=1 .JOB EXECUTION CLASS (JOB CARDS)
               .CLASSE D'EXECUTION DES JOBS (CARTES JOB)
===PRM MSGCL=A .JCL OUTPUT CLASS (MSGCLASS)
               .CLASSE DE SORTIE DU JCL (MSGCLASS)
===PRM INDSV='EXP.PAC25' .PACBASE SYSTEM VSAM FILES INDEXES
               .INDEX FICHIERS SYSTEME VSAM
===PRM INDSN='EXP.PAC25' .PACBASE SYSTEM NON VSAM FILES INDEXES
               .INDEX FICHIERS SYSTEME NON VSAM
===PRM INDUV='CICS.PAC25' .PACBASE USER VSAM FILES INDEXES
               .INDEX FICHIERS UTILISATEUR VSAM
===PRM INDUN='PAC.R25' .PACBASE USER NON VSAM FILES INDEXES
               .INDEX FICHIERS UTILISATEUR NON VSAM
===PRM ROOT='PB' .ROOT OF SYSTEM (2 CHARACTERS)
               .RADICAL DU SYSTEME (2 CARACTERES)
===PRM FILE='25' .NUMBER OF USER'S PACBASE DATA BASE (2 CHAR.)
               .NUMERO BASE UTILISATEUR (2 CARACTERES)
===PRM OUT=A .JOB SYSOUT CLASS
               .CLASSE DE SYSOUT DANS LES JOBS
===PRM U3480=3480 .CARTRIDGE UNIT
               .UNIT CARTOUCHE
===PRM ICART=<> .INSTALLATION CARTRIDGE VOL=SER=
               .VOL=SER= CARTOUCHE INSTALLATION
===PRM UWK=SYSDA .WORK FILES UNIT
               .UNITE FICHIERS DE TRAVAIL
===PRM UNITSN=SYSDA .NON VSAM PACBASE SYSTEM FILES UNIT

```

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```

====PRM UNITUN=SYSDA      .UNITE FICHIERS PACBASE NON VSAM
                          .NON VSAM USER FILES UNIT
====PRM VOLSUN=           .UNITE FICHIERS UTILISATEUR NON VSAM
                          .PACBASE SYSTEM NON VSAM FILES VOL=SER=
                          .VOL=SER= FICHIERS SYSTEME NON VSAM
====PRM VOLSU=           .PACBASE SYSTEM VSAM FILES VOLUME
                          .VOLUME FICHIERS SYSTEME VSAM
====PRM VOLUN=           .PACBASE USER NON VSAM FILES VOL=SER
                          .VOL=SER= FICHIERS UTILISATEUR NON VSAM
====PRM VOLUV=           .PACBASE USER VSAM FILES VOLUME
                          .VOLUME FICHIERS UTILISATEUR VSAM
====PRM VCAT=            .PACBASE USER FILES VSAM CATALOG
                          .CATALOGUE VSAM FICHIERS UTILISATEUR
====PRM SCAT=            .PACBASE SYSTEM FILES VSAM CATALOG
                          .CATALOGUE VSAM FICHIERS SYSTEME
====PRM DSCB= 'PAC.DSCB' .DSCB MODEL FILE DSNAME
                          .DSNAME FICHER DSCB MODELE
====PRM RADP= 'PB25'     .PREFIX OF PROCEDURE NAMES (MAXI 4 CHAR.)
                          .PREFIXE NOMS DES PROCEDURES (4 CAR. MAXI)
====PRM BIBP= 'SYS1.PROCLIB' .PROCEDURE LIBRARY
                          .BIBLIOTHEQUE DES PROCEDURES
====PRM MODB= 'PAC.R25.MBR8' .BATCH LOAD MODULES LIBRARY
                          .BIBLI LOAD MODULES BATCH
====PRM MODT= 'PAC.R25.MTR8' .ON-LINE LOAD MODULES
                          .BIBLI LOAD MODULES TP
====PRM MCVS= 'PAC.R25.COBVS' .COBOL/VS LOAD MODULES
                          .PROGRAMMES COBOL/VS
====PRM BIBT= 'SYS1.SORTLIB' .SORT LIBRARY
                          .BIBLIOTHEQUE DE TRI
====PRM BCOB= 'SYS1.COB2LIB' .COBOL ROUTINE LIBRARY
                          .BIBLIOTHEQUE COBOL
====PRM CSDL= 'CICS330.SDFHLOAD' .DFHCSDUP STEPLIB DSN
                          .DSN STEPLIB DFHCSDUP
====PRM DFHCSD= 'PAC.DFHCSD' .PACBASE CSD DSN
                          .DSN CSD PACBASE
====PRM GROUF= 'PACBASE'   .'GROUP' NAME FOR FILE
                          .NOM DE "GROUP" POUR FICHER
====PRM GROUP= 'PACBASE' .'GROUP' NAME FOR PROGRAM
                          .NOM DE "GROUP" POUR PROGRAMME
====PRM GROUT= 'PACBASE' .'GROUP' NAME FOR TRANSACTION
                          .NOM DE "GROUP" POUR TRANSACTION
====PRM LIST=<>          .'LIST' NAME
                          .NOM DE "LIST"
====PRM TABTDF=<>       .IF ===SELV TAB : DSN OF TABLES DESCRIPTION FILE
                          .SI ===SELV TAB : DSN DESCRIPTIFS TABLES
====PRM DSMS=<>         .IF ===SELV DSM : DSN OF PACBASE ELEMENTS (DC)
                          .SI ===SELV DSM : DSN ELEMENTS PACBASE (DC)

====BEGMOD
./ ADD NAME=$MODULE
/*
//

```

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4.3.2. INSTALLATION OF THE COMPLETE JCL

INSTALLATION PREPARATION

INSTALLATION OF THE COMPLETE JCL

The MM1JCL module reads the JCL skeleton file (label 03) and produces a complete JCL. It allows you to:

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

This step can be executed as many times as necessary to generate a complete JCL.

USER INPUT

Refer to the following paragraphs:

- .Coding of MM1JCL commands
- .Installation variants
- .JCL modules
- .JCL parameters
- .JCL before/after lines

OUTPUT RESULT: COMPLETE JCL

The resulting SYSUT2 file contains all the installation and operation JCLs. This file may be modified (if necessary) via a text editor before beginning the installation.

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INSTALLATION PREPARATION	
INSTALLATION OF THE COMPLETE JCL	

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2

Two operations must be performed on the complete JCL:

1. Global modifications (if necessary):

Adaptations can be performed on all the JCLs.

VSAM catalogues are entered as comments in the installation JCL:

- in the DELETE/DEFINE, as: /*: CATALOG (\$VCAT) */
or: /*: CATALOG (\$SCAT) */
- in the JCL STEPCAT's as: /*:STEPCAT DD
and/or: /*: DD
- in the procedure parameters as: /*: VSAMCAT='\$VCAT'
or: /*: SYSTCAT='\$SCAT'

When these parameters are not required, the resulting JCL is OK as it is.

When these parameters are required, affected lines should be changed into command lines. This is accomplished by:

- Transforming all '/*:' into '//',
- Substituting blanks for '/*:' and '*/'.

Blocking factors for large files can also be changed. Refer to paragraph 'Note on the files' Csize/Blksize' (VA Pac only).

CAUTION:

- . If the SMS product is installed, you should delete IDCAMS definition DD //GDGMOD lines in the installation JCLs with GenerationDataGroup allocation.
- . If the UNIT and VOL parameters cannot be used on the site, you can delete them in the whole JCL through an exclusion (EXCLUDE command of TSO/EDIT).

In most cases, it is recommended to perform general modifications on JCLs before the JCL splitting operation.

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2. JCL splitting

In front of each module of a standard complete JCL, there is a `./ ADD NAME=<JCL-module>` line, where `<JCL-module>` is the code of the `===MOD` line that is found (see the following table of JCL modules).

This allows for the complete JCL to be split in as many members as there are JCL modules in a PDS. The completed JCL file is to be used as `SYSIN` for the PDS update utility: `IEBUPDTE`.

NOTE: Because of this default option, all `./` characters found in JCL modules containing `IEBUPDTE` were replaced with `'./'`.

Once the JCL is split, the replacement must be done the other way round before executing jobs which contain `IEBUPDTE`.

REPORT

`MM1JCL` produces a list for each JCL module created, including parameters taken into account and according to required variants.

Since the JCL skeleton parameters are in the `$xxxx` format, during execution, if `MM1JCL` encounters a `$` character that does not correspond to a defined parameter, it sends error messages such as: `'UNKNOWN SYMBOLIC PARAMETER'` or `'INVALID POSITION OR LENGTH'` or `'SYNTAX ERROR IN SYMBOLIC PARAMETER'`.

These messages do not stop the execution and should be ignored: they apply to the `'$'` in the flow processed by `MM1JCL` which are NOT parameters (in particular, `PACDESIGN` transactions).

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INSTALLATION PREPARATION	
INSTALLATION OF THE COMPLETE JCL	

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CODING OF MMIJCL 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                    )

```

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DEFAULT INSTALLATION OPTIONS		3

4.3.3. DEFAULT INSTALLATION OPTIONS

DEFAULT INSTALLATION OPTIONS

.VARIANTS (===SELV): all available variants are selected.

IMPORTANT: DELETE THE LINES CORRESPONDING TO THE
VARIANTS NOT INSTALLED ON THE SITE.

.PARAMETERS (===PRM):

Indicated values are examples; they should be replaced according to the
site's specific needs.

.MODULES (===SELM):

No selection; all modules (corresponding to the variants) are copied.

.JCL MODULE FIRST LINE (===BEGMOD):

A line: ./ ADD NAME=\$MODULE

This adds a line before each JCL module, in the form:

./ ADD NAME=<name-of-JCL-module>

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INSTALLATION PREPARATION	
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NOTE ON THE FILES' "CISIZE/BLKSIZE"

For most files, the user does not need to modify the blocks, whatever the disk units (3380 or 3390). This applies to the CISIZE's of the VSAM files and BLKSIZE's of small files.

For important files, and since blocks are calculated for the optimization of disk space on 3380 units, if the site's disk units are of the 3390 type, the following can be changed:

- LRCL=155, BLKSIZE=27280 to LRCL=155, BLKSIZE=23405
- LRCL=80, BLKSIZE=12560 to LRCL=80, BLKSIZE=11440
- LRCL=55, BLKSIZE=12595 to LRCL=55, BLKSIZE=11440
- LRCL=308, BLKSIZE=27104 to LRCL=308, BLKSIZE=223408
- LRCL=149, BLKSIZE=27267 to LRCL=149, BLKSIZE=23393
- LRCL=167, BLKSIZE=27555 to LRCL=167, BLKSIZE=23714
- LRCL=55, BLKSIZE=27280 to LRCL=55, BLKSIZE=23430
- LRCL=173, BLKSIZE=27161 to LRCL=173, BLKSIZE=23355
- LRCL=54, BLKSIZE=27270 to LRCL=54, BLKSIZE=23436

In the GPRT, GPRP and GPRU procedures, change BLKSIZE=27180 to BLKSIZE=23400

The modifications should be done on the whole of the resulting JCL file, before splitting it in several members, so as to avoid doing them several times.

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4.3.4. INSTALLATION VARIANTS

INSTALLATION VARIANTS

===SELV VVV

.Comments

! VVV !	! MEANING	! COMMENTS
! SQL !	! SQL Relational DBD ! Installation of the SQL catalog ! update COBOL source	! VA Pac function !
! PEI !	! Production Environment Interface! ! PEI file installation and recog- ! nition in VA Pac	! VA Pac function !
! TAB !	! Pactables ! Installation of the VA Pac - ! Pactables interface components	! VA Pac function !
! DSM !	! DSMS ! Installation of the VA Pac - ! DSMS interface components	! VA Pac function !
!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 !
! SEC !	! Security Systems Interface ! Installation of the security ! system access sub-programs ! (RACF or TOPSECRET)	! VA Pac function !
! ROLD!	! Retrieval of 802v02, 1.2, 1.5, ! 1.6, or 2.0 databases	! Users of release! ! 802v02 to 2.0 !

4.3.5. JCL MODULES

JCL MODULES

```

===SELM mmmmm1 mmmmm2 ... mmmmmn
-----
! mmmmm      ! Contents                                     ! Nature!
!-----!-----!-----!
!           ! CICS UPDATE: CSDnxxxx                       !       !
!           !                                               !       !
! CSD1SYST ! CSD update - VA Pac System components! JCL  !
! CSD2BASE ! CSD update - VA Pac Database             ! -    !
!           ! components                                 !       !
!           !                                               !       !
!           ! INSTALLATION                               !       !
!           ! VA Pac SYSTEM: Dnnxxxx                     !       !
!           !                                               !       !
! D01ALLOC ! Allocation of parameter PDSs              ! JCL  !
!           !                                               !       !
! D02CPAR  ! Loading of common parameters              ! -    !
! D02DIC   ! Loading of Dictionary complements         ! -    !
! D02DICVG ! Allocation and loading of the VINS       ! -    !
!           ! procedure input                          !       !
! D02METH  ! Loading of Entities and parameters of    ! -    !
!           ! the PACDESIGN methodologies             !       !
!           !                                               !       !
! D03DEFIN ! VSAM common file definition              ! -    !
! D03GDG   ! Definition of GDG for parameter backup! -    !
! D03INI   ! System file definitions                  ! -    !
!           !                                               !       !
! D04MBR   ! Batch program library allocation and     ! -    !
!           ! loading (MBR8)                          !       !
! D04MTR   ! On-line program library allocation       ! -    !
!           ! and loading (MTR8)                      !       !
! D04VS    ! COBOL/VS PAF sub-program library        ! -    !
!           ! allocation and loading                  !       !
!           !                                               !       !
! D05IPROC ! PROCLIB allocation (optional)           ! -    !
! D05PROC  ! Loading of batch procedures in the      ! -    !
!           ! PROCLIB                                 !       !
!           !                                               !       !
! D06SKEL  ! Loading of skeleton files               ! -    !
!           !                                               !       !
! D07AE0   ! Loading of error messages and          ! -    !
!           ! documentation                          !       !
! D07PARAM ! Installation of User Parameters         !       !
!           ! (AE and AP files, PARM procedure)      !       !
!           !                                               !       !
! D99INSL  ! List of components' dates              !       !
-----

```

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 INSTALLATION PREPARATION
 JCL MODULES

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```

-----
!      mmmm      ! Contents                                     ! Nature!
-----
!      !
!      ! VA PAC SYSTEM OPTIONAL-PDS                       !      !
!      ! INSTALLATION:  Ennxxxxx                           !      !
!      !
! E01MSO ! Allocation and loading of the multi- ! JCL !
!      ! screen OLSD variant sources ("ZAR980")!      !
! E01SQL ! Allocation and loading of SQL sources ! -   !
!      ! of DB2 catalog access programs (SQL or!      !
!      ! DB2 variants)                                     !      !
!      !
! E02SECR ! Loading of the Security System Inter- ! -   !
!      ! face sub-programs (SEC variant) in an !      !
!      ! Authorized Library (RACF only)         !      !
! E02SECT ! Loading of the Security System Inter- ! -   !
!      ! face sub-programs (SEC variant):      !      !
!      ! sources of the sub-programs for access!      !
!      ! to the TOPSECRET tables to be compiled!      !
!      ! on the site (TOPSECRET only)         !      !
!      !
!      ! VA PAC DATABASE INSTALLATION: Innxxxxx !      !
!      !
! I01SY  ! Database parameter PDS allocation   ! JCL !
!      !
! I02SY  ! Database parameter loading           ! -   !
!      !
! I03DEF ! Database VSAM file definitions       ! -   !
! I03INI ! GDG definitions and initializations ! -   !
!      ! PACBASE test database loading      !      !
!      !
! I04REST ! Test database restoration            ! -   !
!      ! (REST procedure)                   !      !
!      !
! I05REAG ! Initialization of database          ! -   !
!      ! Generation-Print Request file      ! -   !
!      ! (REAG procedure)                   !      !
!      !
! I06PEI ! Initialization of the PEI function   ! -   !
!      ! files (PEI variant, SVPE and RSPE !      !
!      ! procedures)                       !      !
!      !
! I11VGE ! Installation of the VISUAL Dictionary ! -   !
!      ! (VINS procedure)                 !      !
-----

```

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INSTALLATION PREPARATION

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JCL MODULES

5

! mmmmm	! Contents	! Nature!
!	!	!
!	! INSTALLATION COMPLEMENTS	!
!	!	!
!	! Pac/Impact	!
!	! (S2K variant)	!
! I20GDGI	! GDG Initialization	! JCL !
!	!	!
!	! Pac/Transfer facility	!
!	! (PACTR variant)	!
! I30INIUV	! Parameter-file initialization	! JCL !
! I31INIJT	! Compressed journal initialization	! - !
!	!	!
!	! VA Pac - TeamConnection	!
!	! (TEAM variant)	!
! I40INITS	! Parameter-file initialization	! JCL !
! I41TEAM	! Installation of the TeamConnection	! - !
!	! dictionary (VINS procedure)	!
!	!	!
!	! PROCEDURE TEST JCL MODULES	!
!	!	!
! JCLUPDT	! Batch update	UPDT ! JCL !
! JCLGPRT	! Generation and printing	GPRT ! JCL !
! JCLARCH	! Archival of journal	ARCH ! JCL !
! JCLSAVE	! Backup of the database	SAVE ! JCL !
! JCLSVAG	! Backup of AG file	SVAG ! JCL !
! JCLMLIB	! Library management	MLIB ! JCL !
! JCLREOR	! Reorganization of database	REOR ! JCL !
! JCLREAG	! Reorganization of AG file	REAG ! JCL !
! JCLREST	! Database restoration	REST ! JCL !
!	!	!
! JCLEXLI	! Library extraction	EXLI ! JCL !
! JCLEXTR	! Extraction of an entity	EXTR ! JCL !
! JCLEXPJ	! Transaction extraction	EXPJ ! JCL !
!	! using the journal file	!
! JCLUXSR	! Library extraction	UXSR ! - !
!	!	!

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 INSTALLATION PREPARATION
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```

-----
! mmmmm ! Contents Procedure ! Nature !
-----
! ! ! ! !
! ! Pac/Impact (S2K) ! ! !
! ! ! ! !
! JCLIANA ! Impact analysis IANA ! JCL !
! JCLINFP ! FP initialization INFP ! - !
! JCLINFQ ! FQ initialization INFQ ! - !
! JCLIPEP ! Search-criteria printout IPEP ! - !
! JCLIPFQ ! FQ file printout IPFQ ! - !
! JCLIPIA ! Results printout IPIA ! - !
! JCLISEP ! Entry point selection ISEP ! - !
! JCLISOS ! String, operator selection ISOS ! - !
! ! ! ! !
! ! Pac/Transfer facility (PACTR) ! ! !
! ! ! ! !
! JCLTRDU ! Production of DSMS transactions TRDU ! JCL !
! JCLTRJC ! Compression of Journal file TRJC ! - !
! JCLTRPF ! Generation of transfer transact. TRPF ! - !
! JCLTRRP ! Extraction from Journal TRRP ! - !
! JCLTRRT ! UV file retrieval TRRT ! - !
! JCLTRUP ! Parameter update TRUP ! - !
! ! ! ! !
! ! VA Smalltalk / VA Pac Bridge (VISP) ! ! !
! ! ! ! !
! JCLVDWN ! Download VA Pac/VA Smalltalk VDWN ! JCL !
! JCLVPUR ! VA Smalltalk/VA Pac entity purge VPUR ! - !
! JCLVUP1 ! VA Smalltalk/VA Pac code upload VUP1 ! - !
! JCLVUP2 ! VA Smalltalk/VA Pac transaction ! !
! ! upload VUP2 ! - !
! ! ! ! !
! ! FORMER RELEASE RETRIEVAL (ROLD) ! JCL to !
! ! ! ! be ada- !
! ! ! ! pted !
! RPJ160 ! Journal retrieval PJ16 ! !
! RPG200 ! PG file retrieval RPPG ! !
-----

```


4.3.6. JCL PARAMETERS

JCL PARAMETERS

===PRM PPPP=pppp

.Comments

- Parameter values which contain special characters must be entered between simple quotes.
- Comments on ===PRM lines must not exceed column 72, and must be preceded by a period (.).

NOTE: those parameters which have either the default value or the '< >' value MUST be set.

```

-----
! CODE  ! MEANING                                ! DEFAULT !
! PPPP  !                                           ! PPPP    !
!-----!-----
!      !
!      ! JOB CARDS                               !         !
!      ! -----                               !         !
!      !
! PRFJ  ! Jobname prefix (Max.: 5 characters)    ! PAC     !
! CCPT  ! Job accounting code                    ! <>      !
! CLASSJ! Job execution class                     ! 1       !
! MSGCL ! JCL output class                       ! A       !
!      !
!      ! CODING OF FILES' DSNs                   !         !
!      ! -----                               !         !
!      !
!      ! VA Pac system files:                   !         !
!      ! &INDSV.rrrrss: VSAM files              !         !
!      ! &INDSN.rrrrss: VSAM files              !         !
!      !
!      ! VA Pac user files:                     !         !
!      ! &INDUV.rfffss: VSAM files              !         !
!      ! &INDUN.rfffss: Non-VSAM files          !         !
!      !
!      ! IND-- File name indices:                !         !
!      ! (24 characters max.)                   !         !
! INDSV ! VSAM, system                           ! EXP.PAC12 !
! INDSN ! NON-VSAM, system (SAM, PDS)           ! EXP.PAC12 !
! INDUV ! VSAM, user                           ! CICS.PAC12!
! INDUN ! NON-VSAM, user (SAM)                   ! PAC.R12  !
-----

```

JCL PARAMETERS (Continued)

```

-----
! CODE ! MEANING ! DEFAULT !
! PPPP ! ! pppp !
!-----!-----!-----!
! ! ! !
! ! rr=ROOT, ff=FILE, ss=file code suffix! !
! ROOT ! Root of the VA Pac system ! PB !
! ! (2 characters other than 'PW') ! !
! FILE ! VA Pac Database number ! 80 !
! ! (2 characters other than 99, EE, EF) ! !
! ! ! !
! OUT ! SYSOUT print class ! A !
! U3480 ! UNIT of installation tape/cartridge ! TAPE !
! ! copy of the product-supplied media. ! !
! ICART ! VOL=SER installation media, copy of ! <> !
! ! the product-supplied media. ! !
! UWK ! UNIT of work files used. ! SYSDA !
! UNITSN ! UNIT of non-VSAM system files. ! SYSDA !
! UNITUN ! UNIT of non-VSAM user files. ! SYSDA !
! ! ! !
! VOLSN ! VOL=SER of non-VSAM system files. ! !
! VOLSV ! VOL=SER of VSAM system files. ! !
! VOLUN ! VOL=SER of non-VSAM user files. ! !
! VOLUV ! VOL=SER of VSAM user files. ! !
! ! ! !
! VCAT ! VSAM catalog of the VA Pac database ! !
! ! (User files) ! !
! ! ! !
! SCAT ! VSAM catalog of the VA Pac system ! !
! ! (System files) ! !
! ! ! !
! DSCB ! DSNAMES of DSCB model file used for ! !
! ! files at generation. ! 'PAC.DSCB' !
! ! ! !
! RADP ! Prefix of names of procedures to ! PB12 !
! ! install (maximum: 4 characters ) ! !
! ! ! !
! BIBP ! DSNAMES of the procedure library ! 'SYS1.PROCLIB' !
! ! (PROCLIB) ! !
! ! ! !
-----

```

JCL PARAMETERS (Continued)

```

-----
! CODE ! MEANING ! DEFAULT !
! PPPP ! ! ! pppp !
!-----!-----!-----!
! ! ! !
! MODB ! DSNNAME of the batch load-module 'PAC.R12.MBR8' !
! ! library ! !
! MODT ! DSNNAME of the on-line load-module 'PAC.R12.MTR8' !
! ! library ! !
! MCVS ! DSNNAME of the COBOL/VS 'PAC.R12.COBVS' !
! ! sub-program library ! !
! BIBT ! DSNNAME of the sort library 'SYS1.SORTLIB' !
! ! (SORTLIB) ! !
! BCOB ! DSNNAME of COBOL II routine 'SYS1.COB2LIB' !
! ! library ! !
! ! ! !
! ! ! UPDATE OF THE CICS CDS: !
! CSDL ! DFHCSDUP STEPLIB DSN 'CICS311.LOADLIB' !
! DFHCSD ! VA Pac CSD DSN for update ! 'PAC.DFHCSD' !
! ! VA Pac CSD Input Group ! !
! GROUP ! programs ! PACBASE !
! GROUF ! files ! PACBASE !
! GROUT ! transactions ! PACBASE !
! LIST ! List in which the VA Pac group is ! <> !
! ! added. ! !
-----
! ! Pactables (if ==SELV TAB) ! !
! TABTDF ! Table description file DSN ! <> !
! ! DSMS (if ==SELV DSM) ! !
! ! ! !
! DSMS ! VA Pac-element file DSN ! <> !
-----

```

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JCL BEFORE/AFTER LINES		7

4.3.7. JCL BEFORE/AFTER LINES

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.

4.4. INSTALLATION PROCESS

INSTALLATION PROCESS

Once all the JCL modules are created, you may proceed with the installation of the VA Pac system. This installation is broken down into the following stages:

0. CICS update

- 0.1. VA Pac system components
- 0.2. VA Pac database components

1. VA Pac system installation

- 1.1. Initial allocation of parameter and Dictionary complement PDSs
 - 1.2. Loading of parameter and Dictionary complement PDSs
 - 1.3. VSAM and GDG file definitions
 - 1.4. Allocation and loading of load-module libraries
 - 1.5. Allocation and loading of batch procedures
 - 1.6. Loading of generation skeleton files
 - 1.7. Loading of error messages, documentation and user parameters
- End. List of programs and installation files

2. VA Pac system installation optional complements

- 2.1. Allocation and loading of the OLSD multi-screen variant sources
- 2.2. Allocation and loading of source programs for access to the DB2 catalog of the SQL option (SQL variant)
- 2.3. Allocation and loading of the Security System Interface sub-programs (SEC variant)

3. Installation of the VA Pac database

- 3.1. Initial allocation of the parameter PDS
- 3.2. Loading of the parameter PDS
- 3.3. Initialization of the database files
- 3.4. Test database restoration
- 3.5. Initialization of the print-generation request file
- 3.6. Initialization of the Production Environment Interface files (PEI variant)

4. VA Pac Database optional installation components

- 4.1. Installation of the VA Smalltalk dictionary
- 4.2. Installation of the PAF function dictionary
- 4.3. Installation of the PAF+ Extension
- 4.4. Installation of the WorkStation mainframe components
- 4.5. Installation of the PACBENCH QUALITY CONTROL function (PQC) User Entity

5. CICS modifications

- 5.1. Specification of load-module libraries in the CICS submission JCL
- 5.2. Modification of the VA Pac transaction output (optional)

6. Other installation complements

- 6.1. Installation of Pac/Impact
- 6.2. Installation of the Pac/Transfer Facility
- 6.3. Installation of the VA Pac-TeamConnection Bridge

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CICS UPDATE		1

4.4.1. CICS UPDATE

0. CICS UPDATE

0.1. VA PAC SYSTEM COMPONENTS

===MOD CSD1SYST

rr=ROOT, VA Pac system root, transaction code prefixes, programs and files.
User-defined (default: ROOT=PB).

Files:

rrrrAE: Error messages, on-line documentation and user
 parameters accessed by on-line VA Pac
rrrrAP: User parameters accessed by batch VA Pac
rrrrPA: User PAF requests work file

Programs:

rrQnnn, rrPnnn or rrRnnn - for programs
rrNnnn, rrMnnn or rrOnnn - for maps

plus a few specific programs, always prefixed with rr (see Sub-Chapter 'On-line program library', in Chapter 'VISUALAGE PACBASE COMPONENTS').

Transaction: rrEF

This performs common operations on user parameters handled in the AE and AP files, as well as operations on the AB and AC files of the Environment Production Interface.

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0.2. VISUALAGE PACBASE DATABASE COMPONENTS

===MOD CSD2BASE

ff=FILE, database number, complement of the transaction code and of the prefixes of file codes in the VA Pac database. User-defined.

Files:

rrffAN: VA Pac database, Index file,
 rrffAR: VA Pac database, Data file,
 rrffAJ: Journal file of transactions,
 rrffAG: Generation-Printing request file.

Files related to the PEI function:

rrffAB: Production environment accessed on-line,
 rrffAC: Production environment updated on-line.

Transaction: rfff

This performs common database operations such as reads and updates.

NOTES

The "Dynamic Backout" option is required for the AN, AR, AJ, AG and AP files (and for the AC file of the PEI function).

The estimated number of STRINGS, INDEX BUFFERS and DATA BUFFERS indicated are the minimum numbers necessary for the system. Refer to Subchapter 'EFFICIENCY ENHANCEMENT' in Chapter ENVIRONMENT.

INSTALLATION

4

INSTALLATION PROCESS

4

CICS UPDATE

1

```

//$PRFJ.C1 JOB ($CCPT),'PACBASE DFHCSDUP',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - CICS/SD
//*      CICS: CSD BATCH UPDATE - VA Pac SYSTEM
//*****
//DFHCSDUP EXEC PGM=DFHCSDUP
//STEPLIB DD DSN=$CSDL,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//DFHCSD DD DSN=$DFHCSD,DISP=SHR
//SYSIN DD *
*****
*      VA Pac          - $ROOT. COMMON FILES
*****
DEFINE FILE($ROOT.$ROOT.AE) GROUP($GROUF)
DESCRIPTION(PACBASE HELP)
    DSNAME($INDSV..$ROOT.$ROOT.AE)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3) INDEXBUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$ROOT.AP) GROUP($GROUF)
DESCRIPTION(PACBASE BATCH PARAM)
    DSNAME($INDSV..$ROOT.$ROOT.AP)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3) INDEXBUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$ROOT.PA) GROUP($GROUF)
DESCRIPTION(PACBASE PAF)
    DSNAME($INDSV..$ROOT.$ROOT.PA)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2) INDEXBUFFERS(1)
    RECORDFORMAT(V)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
*****
*      VA Pac          - $ROOT. PROGRAMS
*****
DEFINE PROGRAM($ROOT.PA00) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA01) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA10) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA11) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA12) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA13) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA14) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA15) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA16) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA17) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA18) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA19) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA20) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA21) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA22) GROUP($GROUP)
===SEQ FOR PEI
DEFINE PROGRAM($ROOT.PA30) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA31) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA32) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA33) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA34) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PA35) GROUP($GROUP)
===SEQ
DEFINE PROGRAM($ROOT.PBND) GROUP($GROUP)
DEFINE PROGRAM($ROOT.PPHP) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QA00) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QB00) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QC00) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QC01) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QC50) GROUP($GROUP)
DEFINE PROGRAM($ROOT.QD00) GROUP($GROUP)

```


INSTALLATION

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INSTALLATION PROCESS

4

CICS UPDATE

1

```

DEFINE PROGRAM($ROOT.Q103) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q104) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q200) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q210) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q300) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q400) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q500) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q600) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q700) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q800) GROUP($GROUP)
DEFINE PROGRAM($ROOT.Q900) GROUP($GROUP)
DEFINE PROGRAM($ROOT.RS12) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R000) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R005) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R100) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R200) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R400) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R500) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R600) GROUP($GROUP)
DEFINE PROGRAM($ROOT.R980) GROUP($GROUP)
RESIDENT(YES)
DEFINE PROGRAM($ROOT.TPST) GROUP($GROUP)
DEFINE PROGRAM($ROOT.TPWS) GROUP($GROUP)
DEFINE PROGRAM($ROOT.UCTR) GROUP($GROUP)
RESIDENT(YES)

===SEQ FOR SEC
DEFINE PROGRAM($ROOT.SECT) GROUP($GROUP)
===SEQ FOR PUF
DEFINE PROGRAM($ROOT.FANM) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FBIB) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FCTL) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FCOM) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FDBD) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FECL) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FENU) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FFOG) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FMCL) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FPGM) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FRUB) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FSDO) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FTXT) GROUP($GROUP)
DEFINE PROGRAM($ROOT.FVER) GROUP($GROUP)
DEFINE PROGRAM($ROOT.F000) GROUP($GROUP)
===SEQ
*****
*      VA Pac      - $ROOT.EE PARM-PEI TRANSACTION      *
*****
DEFINE TRANSACTION($ROOT.EE) GROUP($GROUT)
DESCRIPTION(PACBASE PARM-PEI TRANSACTION) PROGRAM($ROOT.QUPA)
ADD GROUP($GROUF) LIST($LIST)
ADD GROUP($GROUP) LIST($LIST)
ADD GROUP($GROUT) LIST($LIST)
//

```

INSTALLATION

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INSTALLATION PROCESS

4

CICS UPDATE

1

```

//$PRFJ.C2 JOB ($CCPT),'PACBASE DFHCSDUP',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - CICS/SD
//*      CICS: CSD BATCH UPDATE FOR ONE VA Pac DATABASE
//*****
//DFHCSDUP EXEC PGM=DFHCSDUP
//STEPLIB DD DSN=$CSDL,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//DFHCSD DD DSN=$DFHCSD,DISP=SHR
//SYSIN DD *
*****
*      VA Pac          - $ROOT.$FILE. DATABASE FILES
*****
DEFINE FILE($ROOT.$FILE.AN) GROUP($GROUF)
DESCRIPTION(PACBASE INDEX)
    DSNAME($INDUV..$ROOT.$FILE.AN)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3) INDEXBUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$FILE.AR) GROUP($GROUF)
DESCRIPTION(PACBASE DATA)
    DSNAME($INDUV..$ROOT.$FILE.AR)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$FILE.AG) GROUP($GROUF)
DESCRIPTION(PACBASE COMMAND)
    DSNAME($INDUV..$ROOT.$FILE.AG)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2) INDEXBUFFERS(1)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$FILE.AJ) GROUP($GROUF)
DESCRIPTION(PACBASE JOURNAL)
    DSNAME($INDUV..$ROOT.$FILE.AJ)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
===SEQ FOR PEI
DEFINE FILE($ROOT.$FILE.AB) GROUP($GROUF)
DESCRIPTION(PACBASE PEI)
    DSNAME($INDUV..$ROOT.$FILE.AB)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2) INDEXBUFFERS(1)
    RECORDFORMAT(F)
    ADD(NO) BROWSE(YES) DELETE(NO) READ(YES) UPDATE(NO)
    RECOVERY(BACKOUTONLY)
DEFINE FILE($ROOT.$FILE.AC) GROUP($GROUF)
DESCRIPTION(PACBASE PEI)
    DSNAME($INDUV..$ROOT.$FILE.AC)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2) INDEXBUFFERS(1)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
===SEQ
*****
*      VA Pac          - $ROOT.$FILE. DATABASE TRANSACTION
*****
DEFINE TRANSACTION($ROOT.$FILE) GROUP($GROUF)
DESCRIPTION(PACBASE $ROOT.$FILE TRANSACTION) PROGRAM($ROOT.R000)

```

INSTALLATION
INSTALLATION PROCESS
CICS UPDATE

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//

INSTALLATION	PAGE	110
INSTALLATION PROCESS		4
SYSTEM - INITIAL ALLOCATION OF PARAMETER PDS		4
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4.4.2. SYSTEM - INITIAL ALLOCATION OF PARAMETER PDS

VA PAC SYSTEM INSTALLATION

1.1. INITIAL ALLOCATION OF PARAMETER AND DICTIONARY COMPLEMENTS PDS

System parameters: &INDSN..&ROOT.&ROOT.SY
Dictionary extensions & complements:&INDSN..&ROOT.&ROOT.SYDI
Dictionary entities - VINS input: &INDSN..&ROOT.&ROOT.SYEN
PACDESIGN methodology entities: &INDSN..&ROOT.&ROOT.SYMT

```
===MOD D01ALLOC      Job '$prfj.D1'  
STEP1: IDCAMS: DELETE of files  
STEP2: IEFBR14: allocation of files
```

INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - INITIAL ALLOCATION OF PARAMETER PDS

2

```

//$PRFJ.D1 JOB ($CCPT),'PAC D01ALLOC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D01ALLOC
//* INITIAL ALLOCATION OF THE PARAMETER PDS AND ADDITIONAL FILES
//* .STEP1 : DELETE
//* .STEP2 : ALLOCATION
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.SY)
DELETE ($INDSN..$ROOT.$ROOT.SYDI)
DELETE ($INDSN..$ROOT.$ROOT.SYEN)
DELETE ($INDSN..$ROOT.$ROOT.SYMT)
//*
//STEP2 EXEC PGM=IEFBR14
//SY DD DSN=$INDSN..$ROOT.$ROOT.SY,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLSN,
// UNIT=$UNITSN,
// SPACE=(6080,(25,,5))
//SYDI DD DSN=$INDSN..$ROOT.$ROOT.SYDI,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLSN,
// UNIT=$UNITSN,
// SPACE=(6080,(100,,5))
//SYEN DD DSN=$INDSN..$ROOT.$ROOT.SYEN,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=117,BLKSIZE=7020),
// VOL=SER=$VOLSN,
// UNIT=$UNITSN,
// SPACE=(7020,(25,,5))
//SYMT DD DSN=$INDSN..$ROOT.$ROOT.SYMT,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLSN,
// UNIT=$UNITSN,
// SPACE=(6080,(2000,,5))
//

```

INSTALLATION	
INSTALLATION PROCESS	
SYSTEM - LOADING OF PARAMETER PDS	

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3

4.4.3. SYSTEM - LOADING OF PARAMETER PDS

1.2. LOADING OF PARAMETER AND DICTIONARY-COMPLEMENT PDS

SYSTEM PARAMETERS: &INDSN..&ROOT.&ROOT.SY

===MOD D02CPAR Job '\$prfj.D2C'

STEP1: IEBUPDTE: loading of PDS members

CAUTION: replace all :/ with ./ before submitting the JOB.

DICTIONARY EXTENSION COMPLEMENTS:

&INDSN..&ROOT.&ROOT.SYDI

===MOD D02DIC Job '\$prfj.D2D'

STEP1: IEBUPDTE: Loading of the PDS members

CAUTION: replace all :/ with ./ before submitting the JOB.

STEP2: IEBCOPY: continuation of the loading

C.G.I. DICTIONARY ENTITIES (VINS procedure input):

&INDSN..&ROOT.&ROOT.SYEN

===MOD D02DICVG Job '\$prfj.D2E'

STEP1: IEBCOPY: Loading of the PDS members

PACDESIGN METHODOLOGY ENTITIES:

&INDSN..&ROOT.&ROOT.SYMT

===MOD D02METH Job '\$prfj.D2M'

STEP1: IEBCOPY: loading of PDS members

CAUTION: replace all :/ with ./ before submitting the JOB.

INSTALLATION	4
INSTALLATION PROCESS	4
SYSTEM - LOADING OF PARAMETER PDS	3

```

===FRM TYPE=DATA
//$PRFJ.D2C JOB ($CCPT),'PAC D02CPAR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
// * *
// * INSTALLATION - D02CPAR *
// * LOADS PDS OF COMMON PARAMETERS *
// * .STEP1 : LOADING COMMON PARAMETERS *
// * ->NOTE: *
// * REPLACE :/ BY ./ BEFORE SUBMITTING THE JOB *
//*****
// *
//STEP1 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$INDSN..$ROOT.$ROOT.SY,DISP=SHR
//SYSIN DD DATA,DLM='PP'
:/ ADD NAME=SRTREO1
SORT FIELDS=(1,21,A,40,4,A,28,4,A,32,1,D,46,4,A,22,1,D),FORMAT=BI
:/ ADD NAME=SRTREO2
SORT FIELDS=(1,55,A),FORMAT=BI
:/ ADD NAME=SRTQREO
SORT FIELDS=(50,8,A),FORMAT=BI
:/ ADD NAME=SRTCPSN
SORT FIELDS=(3,3,CH,A,6,7,CH,A)
:/ ADD NAME=SRTRVKE
SORT FIELDS=(1,18,CH,A)
:/ ADD NAME=DF$ROOT.$ROOT.AE
DELETE ($INDSV..$ROOT.$ROOT.AE) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.AE) -
                SHR (2,3) RUS KEYS (12,0) -
                VOL ($VOLSV) -
                CYL (10) -
                RECSZ (80 80) ) -
INDEX ( NAME ($INDSV..$ROOT.$ROOT.AE.I) -
        CISZ (1024) ) -
DATA ( NAME ($INDSV..$ROOT.$ROOT.AE.D) -
        FSPC (2,1)
        CISZ (4096) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DF$ROOT.$ROOT.AP
DELETE ($INDSV..$ROOT.$ROOT.AP) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.AP) -
                SHR (2 3) RUS KEYS (7,0) -
                VOL ($VOLSV) -
                CYL (2,1) -
                RECSZ (80,80) ) -
INDEX ( NAME ($INDSV..$ROOT.$ROOT.AP.I) -
        CISZ (4096) ) -
DATA ( NAME ($INDSV..$ROOT.$ROOT.AP.D) -
        FSPC (50,5)
        CISZ (4096) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DF$ROOT.$ROOT.SC
DELETE ($INDSV..$ROOT.$ROOT.SC) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.SC) -
                SHR (2,3) RUS KEY (4 0) -
                VOL ($VOLSV) -
                RECSZ (3204,3204) ) -
INDEX ( NAME ($INDSV..$ROOT.$ROOT.SC.I) -
        CISZ (256) ) -
DATA ( NAME ($INDSV..$ROOT.$ROOT.SC.D) -
        FSPC (10,5) SPEED TRK (5) -
        CISZ (3584) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DF$ROOT.$ROOT.SG
DELETE ($INDSV..$ROOT.$ROOT.SG) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.SG) -
                SHR (2,3) RUS KEY (5 0) -
                VOL ($VOLSV) -
                RECSZ (4605,4605) ) -
INDEX ( NAME ($INDSV..$ROOT.$ROOT.SG.I) -
        CISZ (256) ) -
DATA ( NAME ($INDSV..$ROOT.$ROOT.SG.D) -
        FSPC (10,5) SPEED CYL (3 1) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DF$ROOT.$ROOT.SR
DELETE ($INDSV..$ROOT.$ROOT.SR) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.SR) -
                SHR (2,3) RUS KEY (5 0) -

```

INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - LOADING OF PARAMETER PDS

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```

        VOL ($VOLSV) -
        RECSZ (4605,4605) ) -
INDEX   ( NAME ($INDSV..$ROOT.$ROOT.SR.I) -
        CISZ (256) ) -
DATA    ( NAME ($INDSV..$ROOT.$ROOT.SR.D) -
        FSPC (10,5) SPEED TRK (5) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DF$ROOT.$ROOT.SP
DELETE ($INDSV..$ROOT.$ROOT.SP) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.SP) -
        SHR (2,3) RUS KEY (5 0) -
        VOL ($VOLSV) -
        RECSZ (4605,4605) ) -
INDEX   ( NAME ($INDSV..$ROOT.$ROOT.SP.I) -
        CISZ (256) ) -
DATA    ( NAME ($INDSV..$ROOT.$ROOT.SP.D) -
        FSPC (10,5) SPEED TRK (3 1) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DF$ROOT.$ROOT.GS
DELETE ($INDUV..$ROOT.$ROOT.GS) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$ROOT.GS) -
        SHR (2) RUS KEYS (25,0) -
        VOL ($VOLUV) -
        CYL (1 1) -
        RECSZ (203,203) ) -
INDEX   ( NAME ($INDUV..$ROOT.$ROOT.GS.I) -
        CISZ (1024) ) -
DATA    ( NAME ($INDUV..$ROOT.$ROOT.GS.D) -
        FSPC (10,5) -
        CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DF$ROOT.$ROOT.SS
DELETE ($INDSV..$ROOT.$ROOT.SS) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.SS) -
        SHR (2,3) RUS KEY (5 0) -
        VOL ($VOLSV) -
        RECSZ (4605,4605) ) -
INDEX   ( NAME ($INDSV..$ROOT.$ROOT.SS.I) -
        CISZ (256) ) -
DATA    ( NAME ($INDSV..$ROOT.$ROOT.SS.D) -
        FSPC (10,5) SPEED CYL (3 1) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
===SEQ FOR TAB
:/      ADD NAME=DFTABTDF
DELETE ($TABTDF) CLUSTER
DEFINE CLUSTER ( NAME ($TABTDF) -
        SHR (2 3) RUS KEYS (21,0) -
        VOL ($VOLUV) -
        CYL (1 1) -
        RECSZ (240,240) ) -
INDEX   ( NAME ($TABTDF.I) -
        CISZ (1024) ) -
DATA    ( NAME ($TABTDF.D) -
        FSPC (10,5) -
        CISZ (2048) ) /*: CATALOG ($VCAT) */
===SEQ FOR DSM
:/      ADD NAME=DFDSMSDC
LISTCAT ENTRIES ($DSMS) CLUSTER
IF LASTCC NE 0 THEN DO
DELETE ($DSMS) CLUSTER
DEFINE CLUSTER ( NAME ($DSMS) -
        SHR (2,3) REUSE KEYS (31,2) -
        VOL ($VOLUV) -
        CYL (1 1) -
        RECSZ (50,168) ) -
INDEX   ( NAME ($DSMS.I) -
        CISZ (1024) ) -
DATA    ( NAME ($DSMS.D) -
        FSPC (10,5) -
        CISZ (4096) ) /*: CATALOG ($VCAT) */
END
===SEQ FOR TEAM
:/      ADD NAME=DF$ROOT.$ROOT.TS
DELETE ($INDSV..$ROOT.$ROOT.TS) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOT.$ROOT.TS) -
        SHR (2,3) RUS KEYS (14,1) -
        VOL ($VOLSV) -
        CYL (10) -

```


INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - LOADING OF PARAMETER PDS

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```
VERIFY FILE (PAC7AE)
:/      ADD NAME=VERIFAP
VERIFY FILE (PAC7AP)
:/      ADD NAME=VERIFSG
VERIFY FILE (PAC7SG)
:/      ADD NAME=VERIFSC
VERIFY FILE (PAC7SC)
:/      ADD NAME=VERIFSR
VERIFY FILE (PAC7SR)
:/      ADD NAME=VERIFSP
VERIFY FILE (PAC7SP)
:/      ADD NAME=VERIFSS
VERIFY FILE (PAC7SS)
===SEQ FOR PEI
:/      ADD NAME=VERIFAB
VERIFY FILE (PAC7AB)
:/      ADD NAME=VERIFAC
VERIFY FILE (PAC7AC)
===SEQ FOR TAB
:/      ADD NAME=VERIFTD
VERIFY FILE (PAC7TD)
===SEQ
:/      ADD NAME=VERIFEM
VERIFY FILE (PAC7EM)
:/      ADD NAME=LI$ROOT.$ROOT.AE
LISTCAT ENTRIES ($INDSV..$ROOT.$ROOT.AE) CLUSTER
PP
//
```

INSTALLATION	4
INSTALLATION PROCESS	4
SYSTEM - LOADING OF PARAMETER PDS	3

```

===FRM TYPE=DATA
//$PRFJ.D2D JOB ($CCPT),'PAC D02DIC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
//* *
//*          INSTALLATION - D02DIC *
//*   LOADS PDS OF ADDITIONAL ENTITIES AND ELEMENTS *
//*   FOR THE DICTIONARY AND THE EXTENSIONS *
//*   (PAF, XPAF, XPDM, PQC) *
//*   .STEP1 : LOADING JCL EXAMPLES (XPAF XPDM) *
//*   .STEP2 : LOADING ENTITIES AND ELEMENTS *
//*   ->NOTE: *
//*   REPLACE :/ BY ./ BEFORE SUBMITTING THE JOB *
//*****
//*
//STEP1 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$INDSN. . $ROOT. $ROOT. SYDI, DISP=SHR
//SYSIN DD DATA, DLM='PP'
PP
//STEP2 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK, SPACE=(CYL,(2,1))
//OUTDI DD DSN=$INDSN. . $ROOT. $ROOT. SYDI, DISP=SHR
//INPDI DD DSN=PAC.SRCDIC, DISP=SHR,
// VOL=(,RETAIN,SER=$ICART), UNIT=$U3480, LABEL=(7,SL)
//SYSIN DD *
C I=(( INPDI,R)),O=OUTDI
S M=(( PAFDICA,PAFDIC))
S M=(( PGDPA,PAFPTEX))
S M=(( PQCRENG,PQCRULE))
S M=(( PQCENG,PQCUPDT))
S M=(( EMUPDTA,EMUPDT))
//

```

INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - LOADING OF PARAMETER PDS

3

```

//$PRFJ.D2E JOB ($CCPT),'PAC D02DICVG',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D02DICVG
//*   LOADING OF DICTIONARY ENTITIES FOR VINS PROCEDURE
//*   .STEP1 : LOADING
//*****
//*
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTDI DD DSN=$INDSN..$ROOT.$ROOT.SYEN,DISP=SHR
//INPDI DD DSN=PAC.INSDIC,DISP=SHR,
//      VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(15,SL)
//SYSIN DD *
C I=((INPDI,R)),O=OUTDI
S M=VGEDIC
S M=TEAMDIC
//

```

INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - LOADING OF PARAMETER PDS

3

```

//$PRFJ.D2M JOB ($CCPT),'PAC D02METH',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D02METH
//*   LOADING OF PACDESIGN METHOD ENTITIES' PDS
//*   .STEP1 : LOADING
//*****
//*
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTMT DD DSN=$INDSN..$ROOT.$ROOT.SYMT,DISP=SHR
//INPMT DD DSN=PAC.SRCMTH,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(17,SL)
//SYSIN DD *
C I=(( INPMT,R)),O=OUTMT
S M=DESADM
S M=(( DESIFWA,DESIFW))
S M=DESIFWP
S M=(( DESMERA,DESMER))
S M=(( DESOMTA,DESOMT))
S M=DESYSM
S M=(( PARMADMA,PARMADM))
S M=(( PARMIFWA,PARMIFW))
S M=(( PARMMERA,PARMMER))
S M=(( PARMOMTA,PARMOMT))
S M=(( PARMYSMA,PARMYSM))
//

```

INSTALLATION	
INSTALLATION PROCESS	
SYSTEM - VSAM AND GDG FILE DEFINITIONS	

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4.4.4. SYSTEM - VSAM AND GDG FILE DEFINITIONS

1.3. VSAM AND GDG FILE DEFINITIONS

DEFINITION OF SYSTEM FILES

===MOD D03DEFIN Job '\$prfj.D3'

STEP1: IDCAMS: DELETE/DEFINE

ALLOCATION OF MODEL DSCB - DEFINITION OF GDG

===MOD D03GDG Job '\$prfj.D3G'

STEP1: IDCAMS: DELETE of model DSCB file
STEP2: IEFBR14: Allocation of model DSCB
STEP3: IDCAMS: Definition of GDG for user
parameter backup (PE)
STEP4: IEBGENER: Initialization of the user
parameter backup (PE)

INITIALIZATION OF FILES

===MOD D03INI Job '\$prfj.D3I'

STEP1: IDCAMS : Initialization of AP file max. key
(User parameters accessed in batch mode)
STEP2: IDCAMS : Initialization of PA work file max. key
(PAF user on-line requests)
STEP3: IDCAMS : Initialization of GS extraction schema
file max. key (PAF Extension)

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SYSTEM - VSAM AND GDG FILE DEFINITIONS

4

```
//SPRFJ.D3 JOB ($CCPT,'PAC D03DEFIN',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
//* *
//* INSTALLATION - D03DEFIN *
//* DEFINITION OF COMMON VSAM FILES *
//* STEP1 : DELETE/DEFINE *
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SC),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SG),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SR),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SP),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SS),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.AP),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.PA),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.GS),DISP=SHR
//*
//
```

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4

SYSTEM - VSAM AND GDG FILE DEFINITIONS

4

```

//$PRFJ.D3G JOB ($CCPT),'PAC D03GDG',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//* VA Pac      INSTALLATION - D03GDG
//* JOB TO RUN ONLY THE FIRST TIME VA PAC IS INSTALLED
//*   . BUILDING OF DSCB MODEL
//*   . DEFINE GDG
//*   . FILE INITIALIZATION (USER PARAMETER BACKUP)
//*   ->NOTE
//*   ----
//*   IF "SMS" IS INSTALLED DELETE //GDGMOD DD STATEMENTS
//*****
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($DSCB)
//*
//STEP2 EXEC PGM=IEFB14
//DSCB DD DISP=(,CATLG),SPACE=(TRK,0),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// DSN=$DSCB
//*
//STEP3 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//GDGMOD DD DSN=$INDSN..$ROOT.$ROOT.PE,
// DISP=(,KEEP,DELETE),
// SPACE=(TRK,0),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// DCB=($DSCB,RECFM=FB,LRECL=80,BLKSIZE=3440)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DEFINE GENERATIONDATAGROUP -
(NAME ($INDSN..$ROOT.$ROOT.PE) LIMIT (3) SCR)
//*
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=80,BLKSIZE=3440)
//SYSUT2 DD DSN=$INDSN..$ROOT.$ROOT.PE(+1),
// DISP=(,CATLG,DELETE),
// SPACE=(TRK,(1,1),RLSE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// DCB=($DSCB,RECFM=FB,LRECL=80,BLKSIZE=3440)
//

```


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4.4.5. SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

1.4. ALLOCATION AND LOADING OF THE LOAD-MODULE LIBRARIES

NOTE:

If the library BLKSIZE is not suitable, modify its value in the allocations steps (STEP2), and replace the C(opy) with COPYMOD in the loading steps (STEP3).

BATCH LOAD-MODULES

```
===MOD D04MBR      Job '$prfj.D4B'
```

```
STEP1: IDCAMS:      DELETE of the batch load-module library
STEP2: IEFBR14:     allocation of the library
STEP3: IEBCOPY:     loading of programs
```

ON-LINE LOAD-MODULES

```
===MOD D04MTR      Job '$prfj.D40'
```

CAUTION: BE SURE TO SELECT THE UPPERCASE-LOWERCASE TRANSFORMATION PROGRAM (rrUCTR)

This program's installation is stated as comments. Before running the JOB, activate the relevant line, at the end of the SYSIN section of STEP3:

```
CICS ESA 3.1 ==> S M=((PWUCTR,rrUCTR))
CICS ESA 3.2 ==> S M=((PWUCTX,rrUCTR))
CICS ESA 3.3 ==> S M=((PWUCTZ,rrUCTR))
STEP1: IDCAMS:      DELETE of on-line load-module library
STEP2: IEFBR14:     allocation of the library
STEP3: IEBCOPY:     loading of maps and programs
```

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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COBOL/VS LOAD-MODULES

===MOD D04VS Job '\$prfj.D4V'

This installation is necessary only for those users who wish to develop
COBOL/VS programs with the PAF function or its extension.

STEP1: IDCAMS: DELETE of the on-line load-module library
STEP2: IEFBR14: allocation of the library
STEP3: IEBCOPY: loading of maps and programs

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INSTALLATION PROCESS

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

5

```

//$PRFJ.D4B JOB ($CCPT),'PAC D04MBR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D04MBR
//* INITIAL ALLOCATING AND LOADING OF THE MBR8 PDS
//* OF BATCH PROGRAMS
//*   .STEP1 : DELETE
//*   .STEP2 : ALLOCATION
//*   .STEP3 : LOADING
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($MODB)
//*
//STEP2 EXEC PGM=IEFBR14
//LNKB DD DSN=$MODB,
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITSN,
//      VOL=SER=$VOLSN,
//      SPACE=(6144,(2000,200,30)),DCB=(RECFM=U,BLKSIZE=6144)
//*
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTB DD DSN=$MODB,DISP=OLD          BATCH
//INB DD DSN=PAC.MBR8,DISP=SHR,
//     VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(4,SL)
//SYSIN DD *
C I=((INB,R)),O=OUTB
S M=MM1JCL
S M=PACA05
S M=PACA10
S M=PACA15
S M=PACA20
S M=PACA90
S M=PACB
S M=PACB30
S M=PACB31
S M=PACB40
S M=PACB80
S M=PACC30
S M=PACC40
S M=PACC80
S M=PACDTP
S M=PACD30
S M=PACD40
S M=PACD80
S M=PACD90
S M=PACE30
S M=PACE40
S M=PACE80
S M=PACFMB
S M=PACFGY
S M=PACFTD
S M=PACCTL
S M=PACHOI
S M=PACG3C
S M=PACG3S
S M=PACG4S
S M=PACG8C
S M=PACG8S
S M=PACINS
S M=PACK30
S M=PACK80
S M=PACK90
S M=PACL30
S M=PACL80
S M=PACL90
S M=PACL92
S M=PACL93
S M=PACL95
S M=PACM30
S M=PACM80

```

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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```
S M=PACN25
S M=PACN30
S M=PACN35
S M=PACN40
S M=PACN50
S M=PACN80
S M=PACP30
S M=PACP40
S M=PACP80
S M=PACP82
S M=PACQ
===SEQ FOR PEI
S M=PACR01
S M=PACR10
S M=PACR20
S M=PACR22
S M=PACR30
S M=PACR40
S M=PACR60
S M=PACR61
S M=PACR90
===SEQ
S M=PACSEP
S M=PACS30
S M=PACS40
S M=PACS50
S M=PACSJO
S M=PACS60
S M=PACSPU
S M=PACS75
S M=PACS80
S M=PACSRM
S M=PACSMO
===SEQ FOR TAB
S M=PACTIN
S M=PACTI1
S M=PACT40
S M=PACT41
S M=PACT45
S M=PACT50
S M=PACT51
===SEQ
S M=PACU15
S M=PACU80
S M=PACU99
S M=PACX
===SEQ FOR S2K
S M=PAN200
S M=PAN205
S M=PAN210
S M=PAN212
S M=PAN215
S M=PAN220
S M=PAN230
S M=PAN240
S M=PAN250
S M=PAN255
S M=PAN260
S M=PAN270
S M=PAN280
===SEQ FOR DSM
S M=PDS600
S M=PDS610
===SEQ
S M=PBBTST
S M=PBBTWS
S M=PBBT98
S M=PADM10
S M=PAFP10
S M=PAF900
S M=PREI00
S M=PREI40
S M=PREI50
S M=PRE986
S M=PRMSYS
S M=PRUTMB
S M=PTAR20
```

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INSTALLATION PROCESS

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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```
S M=PTARSD
S M=PTASVD
===SEQ FOR TEAM
S M=PTC010
S M=PTC030
S M=PTC100
S M=PTC200
S M=PTC220
S M=PTC400
S M=PTC440

===SEQ
S M=PTED30
S M=PTED60
S M=PTEP90
S M=PTEXD0
S M=PTEX30
S M=PTEX80
S M=PTUBAS
S M=PTUCSS

===SEQ FOR PACTR
S M=PTUG05
S M=PTUG06
S M=PTUG07
S M=PTUG10
S M=PTUG11
S M=PTUG12
S M=PTUG42
S M=PTUG44
S M=PTUG46
S M=PTUG50
S M=PTUG60
S M=PTUG61
S M=PTUG90

===SEQ
S M=PTUESS
S M=PTULOI
S M=PTULVB
S M=PTUN00
S M=PTUN10
S M=PTUN40
S M=PTUQ10
S M=PTUQ15
S M=PTUQ20
S M=PTUQ24
S M=PTUQ25
S M=PTUQ30
S M=PTUR00
S M=PTU001
S M=PTU004
S M=PTU100
S M=PTU120
S M=PTU130
S M=PTU140
S M=PTU2CL
S M=PTU200
S M=PTU208
S M=PTU210
S M=PTU220
S M=PTU240
S M=PTU300
S M=PTU320
S M=PTU380
S M=PTU400
S M=PTU402
S M=PTU420
S M=PTU500
S M=PTU502
S M=PTU550
S M=PTU560
S M=PTU630
S M=PTU640
S M=PTU810
S M=PTU815
S M=PTU850
S M=PTU855

===SEQ FOR VISP
S M=PVA100
```


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INSTALLATION PROCESS

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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```
S M=PVA110
S M=PVA300
S M=PVA310
S M=PVA320
S M=PVA400
===SEQ
S M=PYSMCC
S M=PYSMC2
S M=PYSMC3
S M=UTIXSR
===SEQ FOR ROLD
S M=PTU908
S M=REP2PJ
===SEQ FOR SEC
S M=PACSECB
===SEQ
/*
//
```

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INSTALLATION PROCESS

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

5

```

//$PRFJ.D40 JOB ($CCPT),'PAC D04MTR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D04MTR
//* INITIAL ALLOCATING AND LOADING OF THE MTR8 PDS
//* OF ON-LINE PROGRAMS
//* .STEP1 : DELETE
//* .STEP2 : ALLOCATION
//* .STEP3 : LOADING
//* *****
//* WARNING : LOWER CASE UPPER CASE TRANSLATION INSTALLATION
//* ===== ACTIVATE THE CORRESPONDING SELECT LINE:
//* *****
//* CICS ESA 3.1 ==> S M=((PWUCTR,$ROOT.UCTR))
//* CICS ESA 3.2 ==> S M=((PWUCTX,$ROOT.UCTR))
//* CICS ESA 3.3 ==> S M=((PWUCTZ,$ROOT.UCTR))
//* *****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($MODT)
//*
//STEP2 EXEC PGM=IEFBR14
//LNKT DD DSN=$MODT,
// DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(6144,(1500,150,40)),DCB=(RECFM=U,BLKSIZE=6144)
//*
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTT DD DSN=$MODT,DISP=OLD ON-LINE
//INT DD DSN=PAC.MTR8,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(5,SL)
//SYSIN DD *
C I=((INT,R)),O=OUTT
S M=CALL
S M=((PWPST,$ROOT.TPST))
S M=((PWPWS,$ROOT.TPWS))
S M=PBLTDLI
S M=((PWPA00,$ROOT.PA00))
S M=((PWPA01,$ROOT.PA01))
S M=((PWPA10,$ROOT.PA10))
S M=((PWPA11,$ROOT.PA11))
S M=((PWPA12,$ROOT.PA12))
S M=((PWPA13,$ROOT.PA13))
S M=((PWPA14,$ROOT.PA14))
S M=((PWPA15,$ROOT.PA15))
S M=((PWPA16,$ROOT.PA16))
S M=((PWPA17,$ROOT.PA17))
S M=((PWPA18,$ROOT.PA18))
S M=((PWPA19,$ROOT.PA19))
S M=((PWPA20,$ROOT.PA20))
S M=((PWPA21,$ROOT.PA21))
S M=((PWPA22,$ROOT.PA22))
===SEQ FOR PEI
S M=((PWPA30,$ROOT.PA30))
S M=((PWPA31,$ROOT.PA31))
S M=((PWPA32,$ROOT.PA32))
S M=((PWPA33,$ROOT.PA33))
S M=((PWPA34,$ROOT.PA34))
S M=((PWPA35,$ROOT.PA35))
===SEQ
S M=((PWPNBD,$ROOT.PBND))
S M=((PWPPHP,$ROOT.PPHP))
S M=((PWQA00,$ROOT.QA00))
S M=((PWQB00,$ROOT.QB00))
S M=((PWQC00,$ROOT.QC00))
S M=((PWQC01,$ROOT.QC01))
S M=((PWQC50,$ROOT.QC50))
S M=((PWQD00,$ROOT.QD00))
S M=((PWQE00,$ROOT.QE00))

```

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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S M=((PWQF00,\$ROOT.QF00))
S M=((PWQF10,\$ROOT.QF10))
S M=((PWQG00,\$ROOT.QG00))
S M=((PWQH00,\$ROOT.QH00))
S M=((PWQH01,\$ROOT.QH01))
S M=((PWQH20,\$ROOT.QH20))
S M=((PWQH30,\$ROOT.QH30))
S M=((PWQI00,\$ROOT.QI00))
S M=((PWQI01,\$ROOT.QI01))
S M=((PWQI02,\$ROOT.QI02))
S M=((PWQI03,\$ROOT.QI03))
S M=((PWQI04,\$ROOT.QI04))
S M=((PWQI05,\$ROOT.QI05))
S M=((PWQI20,\$ROOT.QI20))
S M=((PWQI21,\$ROOT.QI21))
S M=((PWQI50,\$ROOT.QI50))
S M=((PWQK10,\$ROOT.QK10))
S M=((PWQK20,\$ROOT.QK20))
S M=((PWQK30,\$ROOT.QK30))
S M=((PWQL10,\$ROOT.QL10))
S M=((PWQL20,\$ROOT.QL20))
S M=((PWQL21,\$ROOT.QL21))
S M=((PWQL30,\$ROOT.QL30))
S M=((PWQL40,\$ROOT.QL40))
S M=((PWQL41,\$ROOT.QL41))
S M=((PWQL45,\$ROOT.QL45))
S M=((PWQL46,\$ROOT.QL46))
S M=((PWQM00,\$ROOT.QM00))
S M=((PWQP00,\$ROOT.QP00))
S M=((PWQP01,\$ROOT.QP01))
S M=((PWQP02,\$ROOT.QP02))
S M=((PWQP03,\$ROOT.QP03))
S M=((PWQP04,\$ROOT.QP04))
S M=((PWQP05,\$ROOT.QP05))
S M=((PWQP06,\$ROOT.QP06))
S M=((PWQP07,\$ROOT.QP07))
S M=((PWQP08,\$ROOT.QP08))
S M=((PWQP50,\$ROOT.QP50))
S M=((PWQR00,\$ROOT.QR00))
S M=((PWQS02,\$ROOT.QS02))
S M=((PWQS03,\$ROOT.QS03))
S M=((PWQS04,\$ROOT.QS04))
S M=((PWQS05,\$ROOT.QS05))
S M=((PWQS06,\$ROOT.QS06))
S M=((PWQS08,\$ROOT.QS08))
S M=((PWQS09,\$ROOT.QS09))
S M=((PWQS10,\$ROOT.QS10))
S M=((PWQT00,\$ROOT.QT00))
S M=((PWQT10,\$ROOT.QT10))
S M=((PWQT20,\$ROOT.QT20))
S M=((PWQT50,\$ROOT.QT50))
S M=((PWQUPA,\$ROOT.QUPA))
S M=((PWQUPF,\$ROOT.QUPF))
S M=((PWQU00,\$ROOT.QU00))
S M=((PWQU01,\$ROOT.QU01))
S M=((PWQU10,\$ROOT.QU10))
S M=((PWQU20,\$ROOT.QU20))
S M=((PWQV10,\$ROOT.QV10))
S M=((PWQV20,\$ROOT.QV20))
S M=((PWQV30,\$ROOT.QV30))
S M=((PWQX00,\$ROOT.QX00))
S M=((PWQX01,\$ROOT.QX01))
S M=((PWQY01,\$ROOT.QY01))
S M=((PWQY02,\$ROOT.QY02))
S M=((PWQY03,\$ROOT.QY03))
S M=((PWQY04,\$ROOT.QY04))
S M=((PWQY05,\$ROOT.QY05))
S M=((PWQY10,\$ROOT.QY10))
S M=((PWQY11,\$ROOT.QY11))
S M=((PWQY20,\$ROOT.QY20))
S M=((PWQY30,\$ROOT.QY30))
S M=((PWQZ00,\$ROOT.QZ00))
S M=((PWQ000,\$ROOT.Q000))
S M=((PWQ100,\$ROOT.Q100))
S M=((PWQ101,\$ROOT.Q101))
S M=((PWQ102,\$ROOT.Q102))
S M=((PWQ103,\$ROOT.Q103))

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

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```
S M=( (PWQ104,$ROOT.Q104) )
S M=( (PWQ200,$ROOT.Q200) )
S M=( (PWQ210,$ROOT.Q210) )
S M=( (PWQ300,$ROOT.Q300) )
S M=( (PWQ400,$ROOT.Q400) )
S M=( (PWQ500,$ROOT.Q500) )
S M=( (PWQ600,$ROOT.Q600) )
S M=( (PWQ700,$ROOT.Q700) )
S M=( (PWQ800,$ROOT.Q800) )
S M=( (PWQ900,$ROOT.Q900) )
S M=( (PWR000,$ROOT.R000) )
S M=( (PWR005,$ROOT.R005) )
S M=( (PWR100,$ROOT.R100) )
S M=( (PWR200,$ROOT.R200) )
S M=( (PWR400,$ROOT.R400) )
S M=( (PWR500,$ROOT.R500) )
S M=( (PWR600,$ROOT.R600) )
S M=( (PWR980,$ROOT.R980) )
S M=( (PWR990,$ROOT.R990) )
===SEQ FOR PUF
S M=( (PWFANM,$ROOT.FANM) )
S M=( (PWFBIB,$ROOT.FBIB) )
S M=( (PWFCTL,$ROOT.FCTL) )
S M=( (PWFDBD,$ROOT.FDBD) )
S M=( (PWFECD,$ROOT.FECD) )
S M=( (PWFENU,$ROOT.FENU) )
S M=( (PWFFOG,$ROOT.FFOG) )
S M=( (PWFMCCL,$ROOT.FMCL) )
S M=( (PWFPGM,$ROOT.FPGM) )
S M=( (PWFRUB,$ROOT.FRUB) )
S M=( (PWFSDO,$ROOT.FSDO) )
S M=( (PWFTXT,$ROOT.FTXT) )
S M=( (PWFVER,$ROOT.FVER) )
S M=( (PWF000,$ROOT.F000) )
===SEQ FOR SEC
S M=( (PWSECT,$ROOT.SECT) )
===SEQ
/* S M=( (PWUCTR,$ROOT.UCTR) )
/* S M=( (PWUCTX,$ROOT.UCTR) )
/* S M=( (PWUCTZ,$ROOT.UCTR) )
//
```

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SYSTEM - ALLOC./LOADING OF LOAD-MODULE LIBRARY

5

```

//$PRFJ.D4V JOB ($CCPT),'PAC D04VS',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D04VS
//* INITIAL ALLOCATING AND LOADING OF THE PDS
//* OF PAF COBOL/VIS SUB-PROGRAMS
//* (AND RACF SECURITY SYSTEM INTERFACE, IF "SEC" OPTION)
//* .STEP1 : DELETE
//* .STEP2 : ALLOCATION
//* .STEP3 : LOADING
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($MCVS)
//
//STEP2 EXEC PGM=IEFBR14
//LNKB DD DSN=$MCVS,
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITSN,
//      VOL=SER=$VOLSN,
//      SPACE=(6144,(100,10,5)),DCB=(RECFM=U,BLKSIZE=6144)
//
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTVS DD DSN=$MCVS,DISP=OLD BATCH
//INPVS DD DSN=PAC.MCOBVS,DISP=SHR,
//      VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(20,SL)
//SYSIN DD *
C I=((INPVS,R)),O=OUTVS
S M=PBBTST
S M=PBBTWS
S M=PBBT98
S M=((PWTTPST,$ROOT.TPST))
S M=((PWTTPWS,$ROOT.TPWS))
===SEQ FOR SEC
S M=PACSECB
===SEQ
/*
//

```

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4.4.6. SYSTEM - ALLOC./LOADING OF BATCH PROCEDURES

1.5. ALLOCATION AND LOADING OF BATCH PROCEDURES

It is recommended that all VA Pac operation procedures be cataloged in one procedure library, i.e.:

- Either in a VA Pac-reserved PROCLIB: in this case, execute the allocation job first, and then the loading job.
- Or in an existing PROCLIB: in this case, execute the loading job straight away.

ALLOCATION OF A VA PAC-RESERVED PROCLIB (OPTIONAL)

```
===MOD D05IPROC   Job '$prfj.D5I'
STEP1: IEFBR14:   allocation of the procedure library
```

LOADING OF THE BATCH PROCEDURES IN THE PROCLIB

```
===MOD D05PROC   Job '$prfj.D5P'
```

This job includes the IEBUPDTE step, which creates one member for each procedure.

CAUTION: replace all `:/` with `./` before submitting the job.

Each member is coded '\$radpNNNN', where \$radp is the root chosen at installation time, and NNNN the standard IBM name of the procedure.

Procedures are detailed in the Batch Procedures, Administrator's Guide and User's Guide, except for the older-database retrieval procedures, which are described in this part of the manual.

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```
//SPRFJ.D5I JOB ($CCPT),'PAC D05IPROC',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION - D05IPROC *  
//* WARNING! OPTIONAL JOB *  
//* ===== *  
//* INITIAL ALLOCATION OF A SPECIAL VA PAC "PROCLIB" *  
//* .STEP1 : ALLOCATION *  
//*****  
//*  
//STEP1 EXEC PGM=IEFBR14  
//LIB DD DSN=$BIBP,DISP=(,CATLG,DELETE),  
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),  
// VOL=SER=$VOLSN,  
// UNIT=$UNITSN,  
// SPACE=(6080,(200,20,10))
```

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```

//$PRFJ.D5P JOB ($CCPT),'PAC D05PROC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D05PROC
//*
//*   CATALOGING OF BATCH PROCEDURES
//*
//*   ->NOTE:
//*   REPLACE :/ BY ./ BEFORE SUBMITTING THE JOB
//*
//*****
//UPD   EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$BIBP,DISP=SHR
//SYSIN  DD DATA,DLM='F+'
:/ ADD NAME=$RADP.ARCH
:/ ADD NAME=$RADP.GPRP
:/ ADD NAME=$RADP.GPRT
:/ ADD NAME=$RADP.GPRU
:/ ADD NAME=$RADP.MLIB
:/ ADD NAME=$RADP.UPDT
:/ ADD NAME=$RADP.UPDP
:/ ADD NAME=$RADP.PACX
:/ ADD NAME=$RADP.PARM
:/ ADD NAME=$RADP.LOAE
:/ ADD NAME=$RADP.REOR
:/ ADD NAME=$RADP.QREO
:/ ADD NAME=$RADP.REST
:/ ADD NAME=$RADP.RESY
:/ ADD NAME=$RADP.SAVE
:/ ADD NAME=$RADP.SASY
:/ ADD NAME=$RADP.REAG
:/ ADD NAME=$RADP.SVAG
:/ ADD NAME=$RADP.VINS
:/ ADD NAME=$RADP.PPAF
:/ ADD NAME=$RADP.SADM
:/ ADD NAME=$RADP.YSMC
:/ ADD NAME=$RADP.STOP
:/ ADD NAME=$RADP.EMLD
:/ ADD NAME=$RADP.EMUP
===SEQ FOR TAB
:/ ADD NAME=$RADP.GETD
:/ ADD NAME=$RADP.GETA
:/ ADD NAME=$RADP.GETI
:/ ADD NAME=$RADP.SMTD
:/ ADD NAME=$RADP.RMTD
:/ ADD NAME=$RADP.GET0
:/ ADD NAME=$RADP.GET1
:/ ADD NAME=$RADP.GET2
===SEQ
:/ ADD NAME=$RADP.CPSN
:/ ADD NAME=$RADP.EMSN
:/ ADD NAME=$RADP.MESN
:/ ADD NAME=$RADP.SASN
:/ ADD NAME=$RADP.ACTI
:/ ADD NAME=$RADP.UXSR
:/ ADD NAME=$RADP.PQCA
:/ ADD NAME=$RADP.PQCE
:/ ADD NAME=$RADP.RVDE
:/ ADD NAME=$RADP.RVKE
===SEQ FOR PEI
:/ ADD NAME=$RADP.INPE
:/ ADD NAME=$RADP.SVPE
:/ ADD NAME=$RADP.RSPE
:/ ADD NAME=$RADP.PRPE
:/ ADD NAME=$RADP.GRPE
:/ ADD NAME=$RADP.HIPE
:/ ADD NAME=$RADP.SIPE
===SEQ FOR VISP
:/ ADD NAME=$RADP.VDWN
:/ ADD NAME=$RADP.VPUR
:/ ADD NAME=$RADP.VUP1
:/ ADD NAME=$RADP.VUP2
===SEQ FOR PACTR
:/ ADD NAME=$RADP.TRDU

```


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```
:/ ADD NAME=$RADP.TRJC
:/ ADD NAME=$RADP.TRPF
:/ ADD NAME=$RADP.TRRP
:/ ADD NAME=$RADP.TRRT
:/ ADD NAME=$RADP.TRUP
===SEQ FOR S2K
:/ ADD NAME=$RADP.IANA
:/ ADD NAME=$RADP.IGRA
:/ ADD NAME=$RADP.INFP
:/ ADD NAME=$RADP.INFQ
:/ ADD NAME=$RADP.IPEP
:/ ADD NAME=$RADP.IPFQ
:/ ADD NAME=$RADP.IPIA
:/ ADD NAME=$RADP.ISEP
===SEQ
:/ ADD NAME=$RADP.PRGS
:/ ADD NAME=$RADP.XPAF
:/ ADD NAME=$RADP.XPDM
:/ ADD NAME=$RADP.INSL
:/ ADD NAME=$RADP.RTLO
:/ ADD NAME=$RADP.CRYP
:/ ADD NAME=$RADP.LVBL
:/ ADD NAME=$RADP.CSES
:/ ADD NAME=$RADP.ESES
===SEQ FOR ROLD
:/ ADD NAME=$RADP.PJ16
:/ ADD NAME=$RADP.PP16
:/ ADD NAME=$RADP.RPPG
===SEQ FOR TEAM
:/ ADD NAME=$RADP.TCCI
:/ ADD NAME=$RADP.TCGP
:/ ADD NAME=$RADP.TCLS
:/ ADD NAME=$RADP.TCME
===SEQ
F+
//
```

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SYSTEM - LOADING OF GENERATION SKELETON FILES

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4.4.7. SYSTEM - LOADING OF GENERATION SKELETON FILES

1.6 LOADING OF GENERATION 'SKELETON' FILES

===MOD D06SKEL Job '&prfj.D6'

STEP1: IDCAMS: DELETE/DEFINE of files SC, SG, SR, SS,
and SP

STEP2: IDCAMS: Loading (REPRO) of SC, SG, SR, SS,
and SP

STEP3: IDCAMS: DELETE of SF file;

STEP4: IEBGENER: Loading of SF file.

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SYSTEM - LOADING OF GENERATION SKELETON FILES

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```

//$PRFJ.D6 JOB ($CCPT,'PAC D06SKEL',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D06SKEL
//*   LOADING OF VA PAC SKELETON FILES FOR GENERATION
//*   .STEP1 : DELETE DEFINE
//*   .STEP2 : LOADING VSAM SKELETON FILES
//*   .STEP3 : DELETE "SF"
//*   .STEP4 : ALLOCATING AND LOADING "SF"
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SC),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SG),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SR),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SS),DISP=SHR
// DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.SP),DISP=SHR
//*
//STEP2 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SCO DD DSN=$INDSV..$ROOT.$ROOT.SC,DISP=SHR
//SGO DD DSN=$INDSV..$ROOT.$ROOT.SG,DISP=SHR
//SRO DD DSN=$INDSV..$ROOT.$ROOT.SR,DISP=SHR
//SSO DD DSN=$INDSV..$ROOT.$ROOT.SS,DISP=SHR
//SPO DD DSN=$INDSV..$ROOT.$ROOT.SP,DISP=SHR
//SCI DD DSN=PAC.SCB,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(24,SL),
// DCB=(RECFM=FB,LRECL=3204,BLKSIZE=3204)
//SGI DD DSN=PAC.SGB,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(25,SL),
// DCB=(RECFM=FB,LRECL=4605,BLKSIZE=4605)
//SRI DD DSN=PAC.SRB,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(26,SL),
// DCB=(RECFM=FB,LRECL=4605,BLKSIZE=4605)
//SSI DD DSN=PAC.SSB,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(27,SL),
// DCB=(RECFM=FB,LRECL=4605,BLKSIZE=4605)
//SPI DD DSN=PAC.SP,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(13,SL),
// DCB=(RECFM=FB,LRECL=4605,BLKSIZE=4605)
//SYSIN DD *
REPRO INFILE (SCI)   OUTFILE (SCO)
REPRO INFILE (SGI)   OUTFILE (SGO)
REPRO INFILE (SRI)   OUTFILE (SRO)
REPRO INFILE (SSI)   OUTFILE (SSO)
REPRO INFILE (SPI)   OUTFILE (SPO)
//*
//STEP3 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.SF)
DELETE ($INDSN..$ROOT.$ROOT.SF1)
//*
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=PAC.SF,DISP=SHR,UNIT=$U3480,
// VOL=(,RETAIN,SER=$ICART),LABEL=(14,SL),
// DCB=(RECFM=FB,LRECL=119,BLKSIZE=11900)
//SYSUT2 DD DSN=$INDSN..$ROOT.$ROOT.SF,DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,(10,1)),
// DCB=(RECFM=FB,LRECL=119,BLKSIZE=11900)
//STEP5 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=PAC.SFCOBVS,DISP=SHR,UNIT=$U3480,
// VOL=(,RETAIN,SER=$ICART),LABEL=(21,SL),
// DCB=(RECFM=FB,LRECL=119,BLKSIZE=11900)
//SYSUT2 DD DSN=$INDSN..$ROOT.$ROOT.SF1,DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,

```

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```
//      VOL=SER=$VOLSN,  
//      SPACE=(TRK,(10,1)),  
//      DCB=(RECFM=FB,LRECL=119,BLKSIZE=11900)  
//*  
//
```

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SYSTEM - LOADING OF ERR.MESS, DOC, USER PARAM.

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4.4.8. SYSTEM - LOADING OF ERR.MESS, DOC, USER PARAM.

1.7. LOADING OF ERROR MESSAGES, DOCUMENTATION AND USER PARAMETERS

```
===MOD D07AE0      Job '$prfj.D7'
```

This job loads the sequential source file (AE0) on disk and initializes the indexed system file (AE) using AE0, if AE does not already exist at the site.

```
STEP1: IDCAMS:      DELETE of AE0.
```

```
STEP2: IEBGENER:    Allocation and loading of AE0.
```

```
STEP3: IDCAMS:      Validation of existence of AE (LISTCAT).
```

```
STEP4: IDCAMS:      DELETE/DEFINE of AE if AE does not exist.
```

```
STEP5: IDCAMS:      REPRO of AE0 to AE if AE does not exist.
```

```
===MOD D07PARAM    Job '&prfj.D7P'
```

This loading phase performs the installation of user parameters in the system AE and AP files.

STEP1: '\$radpPARM': execution of the PARM procedure.

WARNING:

THE OPERATION OF THE VA PAC SYSTEM REQUIRES AT LEAST ONE OF THE FOLLOWING USER PARAMETERS:

- USER CODE
- VA PAC SYSTEM ACCESS KEY

Default-supplied input include:

- One NU line: test user code providing all access authorizations to the databases.

Code: TEST
Password: none

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This code is used to perform installation tests; it must be deleted once the user code of the VA Pac database administrator is entered.

- One NK line: this must be filled with the VA Pac ACCESS KEY SPECIFIED IN THE INSTALLATION MAILING.
- NC lines, examples of optional control cards for generation, and other NU lines, examples of User codes.

WORKSTATION/PACDESIGN - METHODOLOGY PARAMETERIZATION

Enter the parameters corresponding to the methodology or methodologies in use.

Update transactions are found in the Methodology PDS
&INDSN.&ROOT.&ROOT.SYMT.

```

. Merise.....: PARMMER
. YSM (Yourdon Structured Method)...: PARMYSM
. SSADM.....: PARMADM
. IFW.....: PARMIFW
. OMT.....: PARMOMT

```

Copy the member(s) corresponding to the site's methodology or methodologies in the SYSIN.

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SYSTEM - LOADING OF ERR.MESS, DOC, USER PARAM.

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```

//$PRFJ.D7 JOB ($CCPT),'PAC D07AE0',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D07AE0
//* INITIAL LOADING OF VA PAC'S AE0 AND AE SYSTEM FILES
//* STEP1 : DELETE "AE0"
//* STEP2 : ALLOCATING AND LOADING "AE0"
//* STEP3 : CHECKING THE EXISTENCE OF "AE" FILE
//* STEP4 : DELETE DEFINE "AE" IF IT DOESN'T EXIST
//* STEP5 : INITIAL LOADING "AE" IF IT DOESN'T EXIST
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.AE0)
//*
//STEP2 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=PAC.AE0A,DISP=SHR,UNIT=$U3480,
// VOL=(,RETAIN,SER=$ICART),LABEL=(23,SL),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=11440)
//SYSUT2 DD DSN=$INDSN..$ROOT.$ROOT.AE0,DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,(120,15)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12560)
//*
//STEP3 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(LI$ROOT.$ROOT.AE),
// DISP=SHR
//*
//STEP4 EXEC PGM=IDCAMS,COND=(0,EQ,STEP3)
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.AE),DISP=SHR
//*
//STEP5 EXEC PGM=IDCAMS,COND=(0,EQ,STEP3)
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//AEO DD DSN=$INDSV..$ROOT.$ROOT.AE,DISP=SHR
//AEI DD DSN=$INDSN..$ROOT.$ROOT.AE0,DISP=OLD
//SYSIN DD *
REPRO INFILE (AEI) OUTFILE (AEO)
//

```

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SYSTEM - LOADING OF ERR.MESS, DOC, USER PARAM.

8

```

===FRM TYPE=DATA
//$PRFJ.D7P JOB ($CCPT),'PAC D07PARAM',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=(SBIBP)
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - D07PARAM
//*  LOADING OF USER PARAMETERS INTO AE AND AP SYSTEM FILES.
//*****
//* VERY IMPORTANT - VERY IMPORTANT - VERY IMPORTANT - VERY IMPORTANT *
//* -----
//*
//* 1) DON'T FORGET TO INDICATE ON A 'NK' LINE
//*   THE PACBASE ACCESS KEY GIVEN BY VA PACBASE SUPPORT.
//*
//* 2) UTILIZATION OF PACDESIGN - METHOD UPDATING
//*   ADD INTO THE "SYSIN" THE TRANSACTIONS CORRESPONDING
//*   TO THE METHODS THAT ARE USED WITH THE WORKSTATION INSTALLATION.*
//*   THOSE BATCH TRANSACTIONS CAN BE FOUND IN THE PDS FILE
//*   $INDSN.&ROOT.&ROOT.SYMT
//*   .YSM (YOURDON STRUCTURED METHOD) ..... : PARMYSM
//*   .SSADM ..... : PARMADM
//*   .MERISE ..... : PARMMER
//*   .IFW ..... : PARMIFW
//*   .OMT ..... : PARMOMT
//*   COPY IN THE SYSIN BELOW THE CORRESPONDING MEMBER(S) "PARM...".
//*
//*****
//STEP1 EXEC $RADP.PARM
//SYSIN DD *
*****
NRCHAR <--- REQUIRED LOADING COMMAND AT TIME OF INSTALLATION
NK000<----- ACCESS KEY ----->
NCAE EXAMPLE OF COBOL PROGRAM COMPILE
NCAE01//$PRFJ.COB JOB ($CCPT),'COMPIL',CLASS=$CLASSJ,
NCAE02// MSGCLASS=$MSGCL
NCAE03//** EXAMPLE OF COBOL PROGRAMS COMPILE
NCAE04//** CORRECT THE FOLLOWING COBOL COMPILE LINES
NCAE05// EXEC COBVCL,S=X,BIBLI='.....'
NCAE06//COB.SYSIN DD *
NCDE CBL NAME LINE
NCDE01 CBL NAME
NCZI EXAMPLE OF END OF JOB STREAM LINES: LINK-EDIT
NCZI01//* END OF JOB STREAM LINES: PUT LINK LIBRARY
NCZI02//LKED.SYSLIB DD
NCZI03// DD DSN=.....,DISP=SHR
NCZI04//*****
NCZI05//
NCAA ANOTHER EXAMPLE WITH PARAMETERS
NCAA01//- JOB (-),-,CLASS=-,MSGCLASS=- 12U34
NCAA02//* ANOTHER EXAMPLE OF THE BEGINNING-OF-JOB-STREAM LINE
NCAA03//* WITH PARAMETERS MARKED BY DASHES ('-') ON THE LINE, AND
NCAA04//* OF COMMANDS INDICATING THE NATURE OF THE PARAMETERS IN
NCAA05//* COLUMN 75 (P = NAME OF GENERATED PROGRAM, U = USER
NCAA06//* CODE, NUMBERS 1 TO 9 = PARAMETERS DECLARED IN THE
NCAA07//* PACBASE DATABASE, ETC.)
NCDA ./ ADD NAME=PROGRAM NAME LINE
NCDA01./ ADD NAME=- P
NCFA /* LINE
NCFA01/*
NCZA01//
NCZA // LINE
NUXXXXXXXXX000PPPPPPP 1
NUXXXXXXXXX010$ROOT.$FILE
NUTEST 000 44
NUTEST 010 $E 3 4
/*
//

```


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4.4.9. SYSTEM - LIST OF PROGRAMS AND INSTALL. FILES

1.End. LIST OF PROGRAMS AND INSTALLATION FILES

```
===MOD D99INSL      Job '$prfj.D9'
```

This job prints the following lists:

- . A list of the batch programs, the maps, and the on-line programs, with their generation characteristics.
- . A list of permanent system files AE, SC, SG, SR, SS, SP, SI, and SF, with their building dates.

These listings should be kept to be sent to VisualAge Pacbase Support., together with the installation references, in case of system operation problems.

This job also executes the INSL procedure.

User input:

```
-----
!Pos.! Len.! Value  ! Meaning          !
!-----+-----+-----+-----!
!  3 !   2 !  rr    ! rr=ROOT PACBASE system root  !
!-----+-----+-----+-----!
```

Meaning of return codes:

- 4: Insufficient storage (increase the value of the REGION parameter)
- 6: Load-module not found in the library
- A: Not a standard VA Pac program

Contact VisualAge Pacbase Support if the return code has one of the following values:

- 5: Unknown error
- 7: Input/output error
- 8: System error
- 9: Loading error (system error)

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```
//$PRFJ.D99 JOB ($CCPT),'PAC D99INSL',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION - D99INSL *  
//* THE FOLLOWING JOB PROVIDES THE LIST OF PROGRAMS *  
//* AND SYSTEM FILES INSTALLED ON THE SITE. *  
//*****  
//INSL EXEC $RADP.INSL  
$ROOT  
//
```

INSTALLATION

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INSTALLATION PROCESS

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SYSTEM - LIST OF PROGRAMS AND INSTALL. FILES

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```

//*****
//* VisualAge Pacbase *
// * *
// * - LIST OF INSTALLED PROGRAMS AND FILES - *
//*****
//$RADP.INSL PROC ROOT=$ROOT, ROOT OF THE PACBASE SYSTEM
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES
// MODT='$MODT', LIBRARY OF INSTALLED TP LOAD MODULES
// OUT=$OUT, OUTPUT CLASS
// UWK=$UWK WORK FILES UNIT
//*****
// * INPUT: *
// * - ONE LINE: ROOT &ROOT OF THE VA PAC SYSTEM (COL.3 LENGTH 2) *
//*****
//INPUT EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&INSLMB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=3440)
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..&ROOT.&ROOT.AE,DISP=SHR
//PAC7SC DD DSN=&INDSV..&ROOT.&ROOT.SC,DISP=SHR
//PAC7SG DD DSN=&INDSV..&ROOT.&ROOT.SG,DISP=SHR
//PAC7SR DD DSN=&INDSV..&ROOT.&ROOT.SR,DISP=SHR
//PAC7SP DD DSN=&INDSV..&ROOT.&ROOT.SP,DISP=SHR
//PAC7SS DD DSN=&INDSV..&ROOT.&ROOT.SS,DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFSC),DISP=SHR
// DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFSG),DISP=SHR
// DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFSR),DISP=SHR
// DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFSP),DISP=SHR
// DD DSN=&INDSN..&ROOT.&ROOT.SY(VERIFSS),DISP=SHR
//PACDTP EXEC PGM=PACDTP
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&MODT,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..&ROOT.&ROOT.AE,DISP=SHR
//PAC7SC DD DSN=&INDSV..&ROOT.&ROOT.SC,DISP=SHR
//PAC7SG DD DSN=&INDSV..&ROOT.&ROOT.SG,DISP=SHR
//PAC7SR DD DSN=&INDSV..&ROOT.&ROOT.SR,DISP=SHR
//PAC7SS DD DSN=&INDSV..&ROOT.&ROOT.SS,DISP=SHR
//PAC7SP DD DSN=&INDSV..&ROOT.&ROOT.SP,DISP=SHR
//PAC7SF DD DSN=&INDSN..&ROOT.&ROOT.SF,DISP=SHR
//PAC7DS DD SYSOUT=&OUT
//PAC7MB DD DSN=&INSLMB,DISP=(OLD,PASS)
//SYSUDUMP DD SYSOUT=&OUT

```

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4.4.10. SYSTEM COMPLEMENT - OLSD MULTI-SCREEN VARIANT

2. OPTIONAL COMPLEMENTS OF THE VA PAC SYSTEM INSTALLATION

2.1. ALLOCATION & LOADING OF THE OLSD MULTI-SCREEN VARIANT SOURCES

This installation complement is necessary only for the users of the multi-screen variant of the OLSD function.

It loads the &INDSN.&ROOT.&ROOT.MSO PDS

```
===MOD E01MSO      Job '$prfj.E1M'  
  
STEP1: IDCAMS:     DELETE of the PDS.  
STEP2: IEFBR14:    allocation of the PDS.  
STEP3: IEBCOPY:    loading of the PDS members.
```

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SYSTEM COMPLEMENT - OLSD MULTI-SCREEN VARIANT

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```

//$PRFJ.E1M JOB ($CCPT),'PAC E01MSO',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - E01MSO
//*  OPTIONAL: OLSD "MULTI-SCREEN" OPTION
//*    .STEP1 : DELETE
//*    .STEP2 : ALLOCATION
//*    .STEP3 : LOADING
//*  ->NOTE
//*  ----
//*  THIS PDS CONTAINS DISPLAY SUB-PROGRAMS
//*  OF ALL OLSD MULTI-SCREEN VARIANTS.
//*  THE USER CAN KEEP AND ADAPT SOURCE SUB-PROGRAMS NECESSARY
//*  FOR THE OLSD VARIANT(S) OF THE SITE.
//*****
//
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.MSO)
//
//STEP2 EXEC PGM=IEFB14
//SY DD DSN=$INDSN..$ROOT.$ROOT.MSO,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(6080,(250,25,10))
//
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTM DD DSN=$INDSN..$ROOT.$ROOT.MSO,DISP=OLD
//INM DD DSN=PAC.SOURCE,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(19,SL)
//SYSIN DD *
C I=INM,O=OUTM
S M=HPFORM
S M=PACVMSS
S M=SCRCODIF
S M=SCRIPAR
S M=SCRPEINT
S M=SCRSAISI
S M=SCRDEC
S M=SCRMFO
S M=VMSUTIL
S M=ZARBUR
S M=ZARCVS
S M=ZARDEC
S M=ZARDE2
S M=ZARG7
S M=ZARG8
S M=ZARICL
S M=ZARIMS
S M=ZARMFO
S M=ZARMF1
S M=ZARTRM
//

```

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4.4.11. SYSTEM COMPLEMENT - DB2 ACCESS SQL SOURCE PGMS

2.2 ALLOCATION & LOADING OF SOURCE PROGRAMS FOR ACCESS TO SQL OPTION'S DB2 CATALOG

This installation complement is necessary only for those users of the SQL variant.

It loads the &INDSN..&ROOT.&ROOT.SQL PDS.

```
===MOD E02SQL      Job '&prfj.E2S'
```

- STEP1: IDCAMS: DELETE of the PDS
- STEP2: IEFBR14: Allocation of the PDS
- STEP3: IEBCOPY: Loading of PDS members

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INSTALLATION PROCESS

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SYSTEM COMPLEMENT - DB2 ACCESS SQL SOURCE PGMS

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```

===FRM TYPE=DATA
===SEQ FOR SQL
//SPRFJ.E1Q JOB ($CCPT),'VSAM DEF.',CLASS=$CLASSJ,
//MSGCLASS=$MSGCL
//*****
// * VisualAge Pacbase *
// * *
// *          INSTALLATION - E01SQL *
// *  OPTIONAL: ALLOCATION AND LOADING OF SQL COBOL SOURCE PROGRAMS *
//*****
// *
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.SQL)
// *
//STEP2 EXEC PGM=IEFBR14
//SQL DD DSN=$INDSN..$ROOT.$ROOT.SQL,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(6080,(25,2,5))
// *
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTSQL DD DSN=$INDSN..$ROOT.$ROOT.SQL,DISP=SHR
//INPSQL DD DSN=PAC.SRCSQL,DISP=SHR,
// VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(18,SL)
//SYSIN DD *
C I=((INPSQL,R)),O=OUTSQL
//
===SEQ

```

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4.4.12. SYSTEM COMPLEMENT - SECURITY SYSTEM INTERFACE

2.3. ALLOCATION & LOADING OF THE SECURITY SYSTEM INTERFACE SUB-PROGRAMS (SEC VARIANT)

This installation complement is necessary only for users of the SEC variant. (For further details, see the SECURITY SYSTEM INTERFACE Reference manual).

RACF

```
===MOD E02SECR      Job '$prfj.E2R'
STEP1: IEBCOPY:    loading of the PACSECU8 RACF Table access
                   sub-program in an AUTHORIZED LIBRARY.
```

- Definition of the resource class (macros ICHERCDE and ICHRFRTB), for instance:

```
cccc      ICHERCDE CLASS=cccc,
           ID=128,
           MAXLNTH=4,
           FIRST=ALPHANUM,
           OTHER=ANY,
           POSIT=25,
           OPER=NO
           *
           *
           *
           *
           *
cccc      ICHRFRTB CLASS=cccc,ACTION=RACF
```

cccc being the RACF resource class code reserved for VA Pac (see PARM procedure, User input, line code 'NS').

- Declaration of PERMITs for the VA Pac resource declaration option under RACF, for instance:

```
PERMIT 3fff CLASS(cccc) ID(user) ACCESS(ALTER)
PERMIT 3$P CLASS(cccc) ID(user) ACCESS(ALTER)
PERMIT 3$E CLASS(cccc) ID(user) ACCESS(ALTER)
PERMIT 3BBB CLASS(cccc) ID(user) ACCESS(ALTER)
etc.
```


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TOPSECRET

===MOD E02SECT Job '\$prfj.E2T'

STEP1: IDCAMS: DELETE of the sub-program source library
STEP2: IEFBR14: allocation of the library
STEP3: IEBCOPY: loading of the sources of the sub-programs
(assembler) for access to the TOPSECRET
Tables to be compiled.

- Compilation of the access sub-programs.

For the compilation of PACTSS and PACTSSC, the OPMAT TSS library must be specified in the SYSLIB card of the Assembler compilation program.

PACTSSC is a CICS program. It must be translated before its compilation and link-edit.

PACTSSC and the TSSCAI program (Computer Associates) must be declared in the CICS CSD. They must be loaded in one of the DFHRPL's load-module library.

- Definition of the resource class:

TSS ADD (RDT) RESCLASS(cccc) RESCODE(xx)

cccc = code of the RACF resource class corresponding to
VA Pac (see the NS line code of the User input of
the PARM procedures).

xx = hexadecimal code indicating the type of resource.

- Resource creation

TSS ADD(dept_name) cccc(nlib) cccc(nlib) ...

dept_name: department name

n: authorization level

lib= VA Pac library code

- Definition of access authorizations

TSS PERMIT(user_code) cccc(nlib) TSS PERMIT(user_code) cccc(nlib)

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SYSTEM COMPLEMENT - SECURITY SYSTEM INTERFACE

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```

===SEQ FOR SEC
//$PRFJ.E2R JOB ($CCPT),'PAC E02SECR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
// * *
// *          INSTALLATION - E02SECR RACF *
// *    LOADING OF THE RACF SECURITY SYSTEM INTERFACE MODULE *
// *      .STEP1 : LOADING *
//*****
//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3   DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OULIB    DD DSN=-----,DISP=OLD          <-- AUTHORIZED LIBRARY
//INLIB    DD DSN=PAC.MBR8,DISP=SHR,
//          VOL=( ,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(4,SL)
//SYSIN    DD *
           C I=((INLIB,R)),O=OULIB
           S M=((PACSECRA,PACSECU8))
// *
//
===SEQ

```

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SYSTEM COMPLEMENT - SECURITY SYSTEM INTERFACE

12

```

===SEQ FOR SEC
//$PRFJ.E2T JOB ($CPT),'PAC E02SECT',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
// * *
// *          INSTALLATION - E02SECT TOPSECRET *
// *   LOADING OF THE TOPSECRET SECURITY SYSTEM INTERFACE MODULE *
// *   .STEP1 : DELETE *
// *   .STEP2 : ALLOCATION *
// *   .STEP3 : LOADING *
// *   ->NOTE *
// *   ---- *
// *   THIS PDS CONTAINS THE TOPSECRET TABLES ACCESS SUB-PROGRAMS *
// *   WHICH MUST BE COMPILED ON THE SITE. *
//*****
// *
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..$ROOT.$ROOT.TSS)
// *
//STEP2 EXEC PGM=IEFB14
//SY DD DSN=$INDSN..$ROOT.$ROOT.TSS,DISP=( ,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(6080,(250,25,10))
// *
//STEP3 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTM DD DSN=$INDSN..$ROOT.$ROOT.TSS,DISP=OLD
//INM DD DSN=PAC.SOURCE,DISP=SHR,
// VOL=( ,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(19,SL)
//SYSIN DD *
C I=INM,O=OUTM
S M=PACTSS
S M=PACTSSC
//
===SEQ

```

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4.4.13. DATABASE - ALLOCATION OF PARAMETER PDS

3. INSTALLATION OF THE VA PAC DATABASE

3.1 INITIAL ALLOCATION OF THE PARAMETER PDS

Database parameters: &INDUN...&ROOT.&FILE.SY

===MOD I01SY Job '&prfj.I1'

STEP1: IDCAMS: DELETE of the PDS

STEP2: IEFBR14: allocation

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DATABASE - ALLOCATION OF PARAMETER PDS

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```

//$PRFJ.I1 JOB ($CCPT),'PAC I01SY',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - I01SY
//* INITIAL ALLOCATION OF THE PARAMETERS PDS OF ONE VA PAC DATABASE
//*          .STEP1 : DELETE
//*          .STEP2 : ALLOCATION
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDUN..$ROOT.$FILE.SY)
//*
//STEP2 EXEC PGM=IEFBR14
//SY DD DSN=$INDUN..$ROOT.$FILE.SY,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// UNIT=$UNITUN,
// VOL=SER=$VOLUN,
// SPACE=(6080,(100,,10))
//

```

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4.4.14. DATABASE - LOADING OF PARAMETER PDS

3.2 LOADING OF THE PARAMETER PDS

This PDS contains the definitions of the database files. Specified file sizes relate to the installation test database. They should therefore be user-modified according to the evolution of the database size.

CAUTION: be sure to replace :/ with ./ before submitting the job.

```
===MOD I02SY      Job '$prfj.I2'
```

```
STEP1: IEBUPDTE: Loading
```

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DATABASE - LOADING OF PARAMETER PDS

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```

===FRM TYPE=DATA
//$PRFJ.I2 JOB ($CPT),'PAC I02SY',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
//* *
//* INSTALLATION - I02SY *
//* LOADING OF THE PARAMETER PDS *
//* .STEP1 : LOADING PARAMETERS FOR ONE VA PAC DATABASE *
//* ->NOTE 1 *
//* ----- *
//* REPLACE :/ BY ./ BEFORE SUBMITTING THE JOB *
//* ->NOTE 2 *
//* ----- *
//* THIS JOB CONTAINS THE SYSIN'S FOR ALLOCATING THE FILES *
//* THAT MAKING UP THE VA PAC DATA BASE: *
//* ADAPT THE SIZES SPECIFIED IN THE 'DEFINE' STATEMENTS *
//* TO YOUR REQUIREMENTS. *
//*****
//*
//STEP1 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$INDUN..$ROOT.$FILE.SY,DISP=SHR
//SYSIN DD DATA,DLM='PP'
:/ ADD NAME=DF$ROOT.$FILE.AN
DELETE ($INDUV..$ROOT.$FILE.AN) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AN) -
SHR (2) RUS KEYS (43,0) -
VOL ($VOLUV) -
CYL (4 1) -
RECSZ (54,54) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.AN.I) -
CISZ (4096) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AN.D) -
FSPC (10,5) -
CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$ROOT.$FILE.AR
DELETE ($INDUV..$ROOT.$FILE.AR) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AR) -
SHR (2) RUS NUMBERED -
VOL ($VOLUV) -
CYL (4 1) -
RECSZ (140,140) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AR.D) -
CISZ (2048) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$ROOT.$FILE.AJ
DELETE ($INDUV..$ROOT.$FILE.AJ) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AJ) -
SHR (2) RUS NUMBERED -
VOL ($VOLUV) -
CYL (1 1) -
RECSZ (167,167) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AJ.D) -
CISZ (512) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$ROOT.$FILE.AG
DELETE ($INDUV..$ROOT.$FILE.AG) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AG) -
SHR (2) RUS KEYS (27,0) -
VOL ($VOLUV) -
CYL (1 1) -
RECSZ (150,150) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.AG.I) -
CISZ (4096) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AG.D) -
FSPC (50,5) -
CISZ (4096) ) /*: CATALOG ($VCAT) */
===SEQ FOR PEI
:/ ADD NAME=DF$ROOT.$FILE.AB
DELETE ($INDUV..$ROOT.$FILE.AB) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AB) -
SHR (4) RUS KEYS (26,0) -
VOL ($VOLUV) -
CYL (1 1) -
RECSZ (110,110) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.AB.I) -
CISZ (1024) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AB.D) -

```

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DATABASE - LOADING OF PARAMETER PDS

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```

          FSPC (10,5) -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$ROOT.$FILE.AC
DELETE ($INDUV..$ROOT.$FILE.AC) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.AC) -
                SHR (2 3) RUS KEYS (26,0) -
                VOL ($VOLUV) -
                CYL (1 1) -
                RECSZ (110,110) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.AC.I) -
      CISZ (1024) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.AC.D) -
      FSPC (10,5) -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
===SEQ FOR PACTR
:/ ADD NAME=DF$ROOT.$FILE.UV
DELETE ($INDUV..$ROOT.$FILE.UV) CLUSTER
IF LASTCC LE 8 THEN DO
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.UV) -
                SHR (2) RUS KEYS (19,1) -
                VOL ($VOLUV) -
                CYL (5,1) -
                RECSZ (80 80) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.UV.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.UV.D) -
      FSPC (10,5) -
      CISZ (4096) ) /*: CATALOG ($SCAT) */
END
:/ ADD NAME=DL$ROOT.$FILE.JT
DELETE ($INDUN..$ROOT.$FILE.JT)
:/ ADD NAME=DL$ROOT.$FILE.TJ
DELETE ($INDUN..$ROOT.$FILE.TJ)
===SEQ FOR S2K
:/ ADD NAME=DF$ROOT.$FILE.FP
DELETE ($INDUV..&USER$ROOT.$FILE.FP) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..&USER$ROOT.$FILE.FP) -
                SHR (2) RUS KEYS (9,0) -
                VOL ($VOLUV) -
                CYL (1 1) -
                RECSZ (9,9) ) -
INDEX ( NAME ($INDUV..&USER$ROOT.$FILE.FP.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDUV..&USER$ROOT.$FILE.FP.D) -
      FSPC (10,5) -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
===SEQ FOR VISP
:/ ADD NAME=DF$ROOT.$FILE.VP
DELETE ($INDUV..$ROOT.$FILE.VP) CLUSTER
IF LASTCC LE 8 THEN DO
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.VP) -
                SHR (2) RUS KEYS (11,0) -
                CYL (5 1) -
                RECSZ (80,80) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.VP.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.VP.D) -
      FSPC (10,5) -
      CISZ (4096) )
END
:/ ADD NAME=DL$ROOT.$FILE.VP
DELETE ($INDUV..$ROOT.$FILE.VP) CLUSTER
===SEQ
:/ ADD NAME=DF$ROOT.$FILE.EM
DELETE ($INDUV..$ROOT.$FILE.EM) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOT.$FILE.EM) -
                SHR (2 3) RUS KEYS (17,0) -
                VOL ($VOLUV) -
                CYL (1 1) -
                RECSZ (90,90) ) -
INDEX ( NAME ($INDUV..$ROOT.$FILE.EM.I) -
      CISZ (1024) ) -
DATA ( NAME ($INDUV..$ROOT.$FILE.EM.D) -
      FSPC (10,5) -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=LI$ROOT.$FILE.AJ
LISTCAT ENTRIES ($INDUV..$ROOT.$FILE.AJ) CLUSTER

```


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//

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4.4.15. DATABASE - DATABASE FILE INITIALIZATIONS

3.3 INITIALIZATION OF THE DATABASE FILES

These jobs must be executed every time a VA Pac database is initialized.

- Definition of the database files

```
===MOD I03DEF      Job '$prfj.I3'  
STEP1: IDCAMS:    DELETE/DEFINE
```

- GDG allocation - Initialization of files

WARNING: If SMS is present at the site, delete the DD //GDGMOD cards from the IDCAMS steps before submitting the jobs.

```
===MOD I03INI      Job '$prfj.I3I'  
STEP1: IDCAMS:    GDG of the PJ file  
STEP2: IEBGENER:  Initialization of the PJ file  
STEP3: IDCAMS:    GDG of PC file  
STEP4: IEBGENER:  Initialization of the PC file (test dbase)  
STEP5: IDCAMS:    GDG of PG file  
STEP6: IDCAMS:    GDG of PP file (PEI function)
```

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DATABASE - DATABASE FILE INITIALIZATIONS

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```

//$PRFJ.I3 JOB ($CCPT),'PAC I03DEF',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase *
// * *
// * INSTALLATION - I03DEF *
// * DEFINITION OF THE VSAM FILES FOR ONE VA PAC DATABASE *
// * STEP1 : DELETE/DEFINE OF THE FILES *
//*****
// *
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AN),DISP=SHR
// DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AR),DISP=SHR
// DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AJ),DISP=SHR
// DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AG),DISP=SHR
===SEQ FOR PEI
// DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AB),DISP=SHR
// DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.AC),DISP=SHR
===SEQ
// *
//

```

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DATABASE - DATABASE FILE INITIALIZATIONS

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```

//$PRFJ.I3I JOB ($CCPT),'PAC I03INI',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          INSTALLATION - I03INI
//* JOB TO RUN ONLY FOR THE INITIALIZATION OF A NEW DATABASE
//* . BUILDING OF INDEX DATA-GROUP FOR
//*   "PC", "PJ", "PG" ("PP" IF PEI) SAVE FILES
//* . "PJ" FILE INITIALIZATION
//* . LOADING OF TEST DATABASE ON "PC" FILE
//* ->NOTE
//* ----
//* IF "SMS" IS INSTALLED DELETE //GDGMOD DD STATEMENTS
//*****
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$VCAT,DISP=SHR
//GDGMOD DD DSN=$INDUN..$ROOT.$FILE.PJ,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=FB,LRECL=167,BLKSIZE=6179)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$ROOT.$FILE.PJ) LIMIT (3) SCR)
//*
//STEP2 EXEC PGM=IEBGENER
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=167,BLKSIZE=167)
//SYSUT2 DD DSN=$INDUN..$ROOT.$FILE.PJ(+1),
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,1),
//      DCB=($DSCB,RECFM=FB,LRECL=167,BLKSIZE=6179)
//*
//STEP3 EXEC PGM=IDCAMS
//*:STEP3 DD DSN=$VCAT,DISP=SHR
//GDGMOD1 DD DSN=$INDUN..$ROOT.$FILE.PC,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=VB,LRECL=155,BLKSIZE=27280)
//GDGMOD2 DD DSN=$INDUN..$ROOT.$FILE.PD,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=VB,LRECL=155,BLKSIZE=27280)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$ROOT.$FILE.PC) LIMIT (3) SCR)
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$ROOT.$FILE.PD) LIMIT (3) SCR)
//*
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=PAC.PCB,DISP=SHR,
//      VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(28,SL)
//SYSUT2 DD DSN=$INDUN..$ROOT.$FILE.PC(+1),
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,(220,10),RLSE),
//      DCB=($DSCB,RECFM=VB,LRECL=155,BLKSIZE=27280)
//*
//STEP4B EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=PAC.PCB,DISP=SHR,
//      VOL=(,RETAIN,SER=$ICART),UNIT=$U3480,LABEL=(28,SL)

```

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DATABASE - DATABASE FILE INITIALIZATIONS

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```

//SYSUT2 DD DSN=$INDUN..$ROOT.$FILE.PD(+1),
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,(220,10),RLSE),
//      DCB=($DSCB,RECFM=VB,LRECL=155,BLKSIZE=27280)
//*
//STEP5 EXEC PGM=IDCAMS
//*:STEP5 DD DSN=$VCAT,DISP=SHR
//GDGMOD DD DSN=$INDUN..$ROOT.$FILE.PG,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=FB,LRECL=150,BLKSIZE=6150)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DEFINE GENERATIONDATAGROUP -
      (NAME ($INDUN..$ROOT.$FILE.PG) LIMIT (3) SCR)
//*
===SEQ FOR PEI
//STEP6 EXEC PGM=IDCAMS
//*:STEP6 DD DSN=$VCAT,DISP=SHR
//GDGMOD DD DSN=$INDUN..$ROOT.$FILE.PP,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=FB,LRECL=110,BLKSIZE=6160)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DEFINE GENERATIONDATAGROUP -
      (NAME ($INDUN..$ROOT.$FILE.PP) LIMIT (3) SCR)
//*
===SEQ
//

```

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4.4.16. DATABASE - TEST DATABASE RESTORATION

3.4. TEST DATABASE RESTORATION

This job executes the REST procedure with, as input, the backup file previously loaded on the disk in STEP4 of job '\$prfj.I3I'.

This database is supplied for a few initial tests of operations only. The size of the AN and AR files on the disk is approximately 1,700,000 bytes.

```
===MOD I08REST      Job '$prfj.I4'
```

```
STEP1: $radp.REST: test database restoration
```

INSTALLATION

4

INSTALLATION PROCESS

4

DATABASE - TEST DATABASE RESTORATION

16

```
//$PRFJ.I4 JOB ($CCPT),'PAC I04REST',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VisualAge Pacbase *
//* *
//*          INSTALLATION - I04REST *
//*    CREATION OF THE VISUALAGE PACBASE TEST DATABASE *
//*****
//TESTREST EXEC $RADP.REST
*TEST
Y      E
//
```

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4.4.17. DATABASE - GENERATION-PRINT REQUEST FILE INIT.

3.5. INITIALIZATION OF THE PRINT-GENERATION REQUEST FILE

The initialization consists of executing the REAG procedure with a request to initialize the AG file (AGI), and, as input, an empty AG backup file (PG).

```
===MOD I05REAG      Job '$prfj.I5'
```

```
STEP1: $radp.REAG: request initializations
```


INSTALLATION

4

INSTALLATION PROCESS

4

DATABASE - GENERATION-PRINT REQUEST FILE INIT.

17

```
//$PRFJ.I5 JOB ($CCPT),'PAC I05REAG',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=( $BIBP )  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION - I05REAG *  
//*    INITIALIZATION AND RESTORATION OF THE AG FILE *  
//*****  
//*  
//STEP1 EXEC $RADP.REAG  
*TEST  
AGI  
//PTU560.PAC7PG DD DUMMY,DCB=BLKSIZE=150  
//
```

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4.4.18. DATABASE - PEI FUNCTION INITIALIZATION

3.6. INITIALIZATION OF THE PRODUCTION ENVIRONEMENT INTERFACE FILES

Initialization of the Production Environment management files, for the PEI variant only. Execution of the INPE and RSPE procedures. (See the Batch Procedures: Administrator's Guide, Chapter VERSIONNING, Subchapter PEI: Production Environment.)

```
===MOD I06PEI      Job '$prfj.I6'
```

```
STEP1: $radp.INPE: PEI backup initialization
```

```
STEP2: $radp.RSPE: PEI restoration
```

INSTALLATION

4

INSTALLATION PROCESS

4

DATABASE - PEI FUNCTION INITIALIZATION

18

```
===SEQ FOR PEI
//$PRFJ.I6 JOB ($CCPT),'PAC I06PEI',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=( $BIBP)
//*****
// * VisualAge Pacbase *
// * *
// *          INSTALLATION - I06PEI *
// * PEI OPTION - PRODUCTION ENVIRONMENT FILE INITIALIZATION *
//*****
//STEP1 EXEC $RADP.INPE
 *TEST
//STEP2 EXEC $RADP.RSPE
 *TEST
//PACR61.PAC7PP DD DSN=$INDUN..$ROOT.$FILE.PP(+1),DISP=SHR
//
===SEQ
```

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4.4.19. DATABASE COMPLEMENT - PAC/CS UE INSTALLATION

4. VA PAC DATABASE OPTIONAL INSTALLATION COMPLEMENTS

4.1. DATABASE COMPLEMENT: INSTALLATION OF THE VISUALAGE SMALLTALK DICTIONARY

Loading of VisualAge Smalltalk Objects as User Entities in the VisualAge Pacbase Dictionary.

Execution of the VINS procedure.

```
===MOD I11VGE      Job '$prfj.I11'  
STEP1 : $radp.VINS : database updating
```

INSTALLATION

4

INSTALLATION PROCESS

4

DATABASE COMPLEMENT - PAC/CS UE INSTALLATION

19

```
//$PRFJ.I11 JOB ($CCPT),'PAC I11VGE',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=( $BIBP )  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION - I11VGE *  
//*****  
//VISUAL EXEC $RADP.VINS,  
//          FDIC='$INDSN..$ROOT.$ROOT.SYEN(VGEDIC) '  
*TEST  
//
```

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DATABASE COMPLEMENT - PAF FUNCTION INSTALLATION		20

4.4.20. DATABASE COMPLEMENT - PAF FUNCTION INSTALLATION

4.2.1. INSTALLATION OF THE PAF FUNCTION DICTIONARY

The use of the PAF function involves the transformation of SQL requests for access to the VisualAge Pacbase database written in user programs, through the generation of data and VA Pac access sub-program calls in the COBOL source generated from these programs.

The PAF Preprocessor processes the generated programs in order to perform this transformation. It includes the PAFP10 program installed in the batch load-module library MBR8.

Several methods are available to process the generated programs, using PAF:

- with the GPRP procedure, the VA Pac Generation-Printing procedure is followed by the execution of PAF Preprocessor which processes the whole generated flow before sending it to the MVS Internal Reader;
- with the PPAF procedure, the user may:
 - . request this procedure in the Optional Control Cards in front of/in back of program, which are combined with the link-edit compilation JCL;
 - . call this procedure after the execution of the standard GPRT procedure, from which the generated flow will be retrieved;
 - . use any other methods best suited with the characteristics of the site.

(See the PPAF section in Chapter STANDARD PROCEDURES, subchapter 'GPRT: Generation-Print', in the BATCH PROCEDURES User's Guide.)

Five PAF sub-programs are provided in the installation deck:

- . Three batch sub-programs installed in the batch load-module library:
 - PBBTST for PAF standard requests
 - PBBTWS for PAF requests by keywords
 - PBBT98 for physical access to the VA Pac database

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NOTE:

These sub-programs should be transferred in the user program library(ies), either to be included in the "Link-edit" of the user programs (static call), either to be called for execution (dynamic call).

. Two on-line sub-programs installed in the on-line module library:

- xxTPST for standard PAF requests
- xxTPWS for PAF requests by keyword

The work files necessary for PAF operation are described in the Batch Procedures: User's Guide, Chapter STANDARD PROCEDURES, Subchapter 'GPRT: Generation and Printing', Section 'PPAF...'. Their definition is in the SYDI parameter PDS: modification of the installation and/or size of these files should be done in this PDS.

An example of the JCL of a user program with PAF calls is supplied in the SYDI Dictionary complements' PDS, in the PAFJCL member. (See PAFJCL, in section 'System: Loading of Parameter PDS', and the description of the example of a user's batch PAF JCL thereafter.)

The work file necessary for the operation of PAF in on-line mode has a CICS-imposed DDNAME of the \$root.\$root.PA format. This DDNAME must be unique for all programs accessing databases installed under the same root (\$ROOT).

Data Element, Data Structure and Segment entities used to write programs involving PAF, are provided as batch transactions in the PAFDIC member of the SYDI Dictionary Complements' PDS.

IMPORTANT:

Loading the 'PAF dictionary' in the VA Pac database via the UPDT batch update procedure is the responsibility of the Database Administrator, who must make sure that the codes of the entities provided do not conflict with entities that are already defined in the Database.

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In order to avoid compatibility conflicts between the site's Dictionary and entities provided for the PAF function, it is recommended to create an independent library network that will be accessed by the site's PAF utilities.

USERS PROGRAMMING WITH COBOL/VS

COBOL/VS PAF sub-programs are gathered in a special library. See Subchapter 'System: Alloc./Loading of Load-Module Library'.

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EXAMPLE OF A PAF BATCH USER JCL

The JCL example supplied may be adapted to the site's requirements and facilities. It illustrates the execution of a PAF user batch program but it is not compulsory.

DESCRIPTION OF STEPS

This procedure example contains the following steps:

EXECUTION OF USER PROGRAM

.Permanent input files (COMPULSORY):

- Data file
PAC7AR: DSN=&INDUV..&ROOT.&FILE.AR
- Index file
PAC7AN: DSN=&INDUV..&ROOT.&FILE.AN
For better performance, the JCL may be adapted in order to implement the batch LSR option.
- Error message file
PAC7AE: DSN=&INDSV..&ROOT.&ROOT.AE

.Input/output work file (COMPULSORY):

- Query-processing file
SYSPAF: DSN=&&SYSPAF

.Printing of error messages
SYSOUT (COMPULSORY)

.Addition of the user program's specific files

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DATABASE COMPLEMENT - PAF FUNCTION INSTALLATION

20

```

//*****
//* VisualAge Pacbase *
// * *
// * - JCL EXAMPLE - *
// * EXECUTION OF A USER P.A.F. BATCH PROGRAM *
//*****
//PAFBATCH PROC FILE=$FILE, NUMBER OF PHYSICAL DATABASE
// ROOT=$ROOT, ROOT OF THE PACBASE SYSTEM
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
// INDUV='$INDUV', INDEX OF USER VSAM FILES
//*: VSAMCAT='$VSCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB=, USER LIBRARY OF LOAD-MODULES
// OUT=$OUT OUTPUT CLASS
//*****
//MAXKEY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSPAF DD DSN=&&SYSPAF,DISP=(NEW,KEEP),
// SPACE=(CYL,(3,3)),
// LRECL=468,RECORG=KS,KEYOFF=0,KEYLEN=12
//MAXKEY DD DSN=&INDSN..&ROOT.&ROOT.SY(MAXKEY),DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOT.&ROOT.SY(REPRO999),DISP=SHR
//WITHPAF EXEC PGM=-----
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7AN DD DSN=&INDUV..&ROOT.&FILE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&ROOT.&FILE.AR,DISP=SHR
//PAC7AE DD DSN=&INDSV..&ROOT.&ROOT.AE,DISP=SHR
//SYSPAF DD DSN=&&SYSPAF,DISP=(OLD,KEEP)
//----- DD DSN=---
//----- DD DSN=---
//----- DD DSN=---
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
// PEND
//PAFBATCH EXEC PAFBATCH

```

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4.4.21. DATABASE COMPLEMENT - PAF+ EXTENSION INSTALLATION

4.2.2. INSTALLATION OF THE 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).

The UE is copied by the installation process in the SYDI PDS member of Dictionary Complements (a member of PAFPTX). 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 PAFPTX 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. This file is defined in the SY parameters' PDS with the DDname \$INDUV.\$ROOT.\$ROOT.GS.

An example of an execution JCL for a User Extractor can be found in the PTEXJCL member of the SYDI parameter PDS.
See next subchapter for information regarding the execution of a PAF User Extractor.

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SUBMISSION OF A PAF EXTENSION USER EXTRACTOR JCL

The JCL example supplied may be adapted to the site's requirements and facilities.

USER INPUT

User input is described in the PAF Reference Manual in Chapter "Execution of a User Extractor / E-type PTEEx".

EXECUTION OF THE USER EXTRACTOR: CIBLE

```
.Permanent input files (COMPULSORY):
-Data file
  PAC7AR: DSN=&INDUV..&ROOT.&FILE.AR
-Index file
  PAC7AN: DSN=&INDUV..&ROOT.&FILE.AN
-Error message file
  PAC7AE: DSN=&INDSV..&ROOT.&ROOT.AE

.Input/output work file (COMPULSORY):
-Query processing file
  SYSPAF: DSN=&&SYSPAF

.Print of system error messages
  SYSOUT (COMPULSORY)

.Output files:
-Extraction result (not formatted)
  PAC7SO
-Extraction result
  PAC7SQ

.Output report:
-Summary
  PAC7DB
```

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DATABASE COMPLEMENT - PAF+ EXTENSION INSTALLATION

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```

//*****
//* VisualAge Pacbase *
//* *
//* - JCL EXAMPLE - *
//* USER EXTRACTOR SUBMISSION JCL *
//* IN INPUT, ADD A '*' LINE (USER, PASSWORD, LIBRARY) *
//* ***** ADD A X-TYPE LINE (REFER TO THE PAF USER REF. MANUAL) *
//* COL. 2 : X *
//* COL. 3 : PAF CURSOR *
//* COL. 7 : UEO CODE *
//* COL. 15 : START LIMIT *
//* COL. 23 : END LIMIT *
//* COL. 31 : DEBUG TYPE (0 OU 1) *
//* COL. 32 : NUMBER OF PAF BUFFERS *
//* CHANGE DCB OF PAC7SQ IN RELATION WITH THE USER ENTITY *
//*****
//PTEXJCL PROC FILE=$FILE, NUMBER OF PHYSICAL DATABASE
// ROOT=$ROOT, ROOT OF THE VA PAC SYSTEM
// INDSV='$INDSV', INDEX OF VSAM SYSTEM FILES
// INDSN='$INDSN', INDEX OF NON-VSAM SYSTEM FILES
// INDUV='$INDUV', INDEX OF VSAM USER FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB=, USER LIBRARY OF LOAD-MODULES
// SORTLIB=, SORT LIBRARY
// OUT=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(1,1),RLSE)', REQUESTS FILE SPACE
// SPASQ='(TRK,(5,1),RLSE)', RESULT FILE SPACE
// SPAWK='(TRK,(5,1),RLSE)', WORK FILE SPACE
// CYL=(3,1)' SORTWORK SPACE
//*****
//INPUT EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&XPAFMB,DISP=(,PASS),
// UNIT=&UWK,
// SPACE=&SPAMB,DCB=BLKSIZE=3440
//MAXKEY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSPAF DD DSN=&&SYSPAF,DISP=(NEW,KEEP),
// SPACE=(CYL,(3,3)),
// LRECL=468,RECOG=KS,KEYOFF=0,KEYLEN=12
//MAXKEY DD DSN=&INDSN..&ROOT.&ROOT.SY(MAXKEY),DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOT.&ROOT.SY(REPRO999),DISP=SHR
//*
//----- EXEC PGM=-----
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7AN DD DSN=&INDUV..&ROOT.&FILE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&ROOT.&FILE.AR,DISP=SHR
//PAC7AE DD DSN=&INDSV..&ROOT.&ROOT.AE,DISP=SHR
//SYSPAF DD DSN=&&SYSPAF,DISP=(OLD,KEEP)
//PAC7MB DD DSN=&XPAFMB,DISP=(OLD,DELETE)
//PAC7SO DD SPACE=&SPAWK,DCB=BLKSIZE=13080,
// UNIT=&UWK
//PAC7SQ DD DSN=&&PAC7SQ,DISP=(,PASS),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// SPACE=&SPASQ
//PAC7DB DD SYSOUT=&OUT
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
// PEND
//PTEXJCL EXEC PTEXJCL
//

```

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4.4.22. DATABASE COMPLEMENT - WORKSTATION INSTALLATION

4.3. DATABASE COMPLEMENT: WORKSTATION MAINFRAME COMPLEMENT INSTALLATION

Operating the WorkStation requires the presence on the mainframe of :

- User Entities (UE) and their occurrences supporting the WorkStation entities.
- Methodology Choices.

The UE and their occurrences are stored at installation in the PDS of the SYMT methods, in the following members:

- DESMER for the Merise methodology;
- DESYSM for the YSM methodology.
- DESADM for the SSADM methodology.
- DESOMT for the OMT methodology.
- DESIFW for the IFW methodology.

For this methodology, the Dictionary must first be pre-loaded with the transactions contained in the DESIFWP file (about 13,500 transactions).

These are batch transactions which will be introduced in the database via the UPDT procedure.

Once the library provided for these entities has been chosen, the '*' line must be entered at the beginning of the member used as input to the UPDT procedure.

The Methodology Choices are also stored at installation in the SYMT parameter PDS, in the following members:

- PARMMER for the Merise methodology;
- PARMYSM for the YSM methodology.
- PARMADM for the SSADM methodology.
- PARMOMT for the OMT methodology.
- PARMIFW for the IFW methodology.

These are batch transactions which will be introduced in the database via the PARM procedure.

The '*' line must be entered at the beginning of the member used as input to the PARM procedure.

IMPORTANT: It is recommended to install only one methodology per sub-network, even though it is technically possible to install several.

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4.4.23. DATABASE COMPLEMENT - PQC UE DICTIONARY INSTALLAT.

4.4. INSTALLATION OF THE PQC FACILITY'S USER ENTITY

The PACBENCH QUALITY CONTROL facility (PQC) features a customization option which allows for user-defined quality rules. These rules are specified in the VA Pac Database as occurrences of a dedicated User Entity.

This User Entity is initially supplied in the SYDI system parameter PDS member named PQCUPDT.

This member's contents are formatted in batch update transactions to be used in input by the Database Updating procedure (UPDT).

Once the Library to update is chosen, an '*'-type line must be added in the PQCUPDT member on top of all update lines.

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4.4.24. CICS COMPLEMENT - SUBMISSION JCL

5. CICS MODIFICATIONS

5.1. CICS COMPLEMENT: SPECIFICATION OF LOAD-MODULE LIBRARIES IN THE CICS SUBMISSION JCL

Once the CICS tables are updated and compiled and the files correctly defined, the CICS submission JCL must be completed so that all VA Pac system elements are taken into account.

CAUTION:

Be sure to add the DD card of the VA Pac on-line program library in DFHRPL.

If you add the DD card of the batch program library in the same DFHRPL, you will be able to access the VA Pac batch program characteristics on-line (transaction: rrEF, choice: PD). If not, these generation characteristics will be accessible in batch mode only (INSL procedure).

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4.4.25. CICS COMPLEMENT - TRANSACTION OUTPUT MODIF.

5.2. MODIFICATION OF THE VA PAC TRANSACTION OUTPUT

Upon exiting the VA Pac 'rff' transaction, as well as on exiting the 'rEF' transaction (management of User Parameters and the PEI Function), the system sends a CICS RETURN through the xxR005 program called by XCTL.

You may replace this program by another program, in order to return control to a general user menu or any other manipulation.

For more details, refer to Chapter ENVIRONMENT, Subchapter 'On-Line Environment (CICS)'.

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4.4.26. COMPLEMENT - Pac/Impact

6. OTHER INSTALLATION COMPLEMENTS

6.1. COMPLEMENT: INSTALLATION OF Pac/Impact

GDG ALLOCATION

```
===MOD I20GDG Job '$prfj.I20'
```

CAUTION!: If SMS is installed in the site, delete the DD //GDGMOD cards from steps GDGBJ and GDGBB before submitting the Job.

STEP1 : IDCAMS : Allocation of GDG for FH file

STEP2 : IEBCGENER : Initialization from scratch of FH file

STEP3 : IDCAMS : Allocation of GDG for FO file

STEP4 : IEBCGENER : Initialization from scratch of FO file

STEP5 : IDCAMS : Allocation of GDG for FR file

STEP6 : IEBCGENER : Initialization from scratch of FR file

(For a description of these files, see Chapter VISUALAGE PACBASE COMPONENTS, Subchapter 'Evolving Files', section 'Pac/Impact Files'.)

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COMPLEMENT - Pac/Impact

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```

//$PRFJ.I20 JOB ($CCPT),'PAC I05GDG',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          - IMPACT ANALYSIS -
//*          INSTALLATION - I05GDG
//*          BUILDING OF INDEX DATA-GROUP FOR "FH", "FO" AND "FR" FILES
//*
//*  ->NOTE
//*  ----
//*  IF "SMS" IS INSTALLED DELETE //GDGMOD DD STATEMENTS
//*****
//$RADP.GDG PROC FILE=$FILE,          NUMBER OF PHYSICAL DATABASE
//          ROOT=$ROOT,              ROOT OF THE VA PAC SYSTEM
//          USER=,                    PACKAGE CODE FOR IMPACT ANALYSIS
//          INDUN='$INDUN',           INDEX OF NON-VSAM USER FILES
//*:        VSAMCAT='$VCAT',         USER VSAM CATALOG
//*:        SYSTCAT='$SCAT',         SYSTEM VSAM CATALOG
//          STEPLIB='$MODB',          LIBRARY OF LOAD-MODULES
//          OUT=$OUT,                OUTPUT CLASS
//          DSCB='$DSCB',             DSCB MODEL FILE
//          VOLS='SER=$VOLUN',        RESULTS FILE VOLUME
//          UNITS=$UNITUN,           RESULTS FILE UNIT
//          UWK=$UWK                  WORK UNIT
//*****
//INIFO1 EXEC PGM=PRMSYS, PARM='&USER'
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSABOUT DD SYSOUT=&OUT
//PACRIN DD DDNAME=SYSIN
//PACROU DD DSN=&DFFO,DISP=(,PASS),UNIT=&UWK,SPACE=(TRK,1),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//INIFO2 EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER.&ROOT.&FILE.FO,
//          DISP=(,KEEP,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,
//          SPACE=(TRK,0),
//          DCB=(&DSCB,RECFM=FB,LRECL=260,BLKSIZE=5200)
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&DFFO,DISP=(OLD,DELETE)
//INIFO3 EXEC PGM=IEBGENER
//*****
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=260,BLKSIZE=260)
//SYSUT2 DD DSN=&INDUN..&USER.&ROOT.&FILE.FO(+1),
//          DISP=(,CATLG,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,
//          SPACE=(TRK,1),
//          DCB=(&DSCB,RECFM=FB,LRECL=260,BLKSIZE=26000)
//*
//INIFR1 EXEC PGM=PRMSYS, PARM='&USER'
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSABOUT DD SYSOUT=&OUT
//PACRIN DD DDNAME=SYSIN
//PACROU DD DSN=&DFFR,DISP=(,PASS),UNIT=&UWK,SPACE=(TRK,1),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//INIFR2 EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER.&ROOT.&FILE.FR,
//          DISP=(,KEEP,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,
//          SPACE=(TRK,0),
//          DCB=(&DSCB,RECFM=FB,LRECL=72,BLKSIZE=21600)
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&DFFR,DISP=(OLD,DELETE)
//INIFR3 EXEC PGM=IEBGENER

```

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```

//*****
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=72,BLKSIZE=72)
//SYSUT2 DD DSN=&INDUN..&USER.&ROOT.&FILE.FR(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=(TRK,1),
// DCB=(&DSCB,RECFM=FB,LRECL=72,BLKSIZE=21600)
//*
//INIFQ1 EXEC PGM=PRMSYS,PARM='&USER'
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSABOUT DD SYSOUT=&OUT
//PACRIN DD DDNAME=SYSIN
//PACROU DD DSN=&&DFFQ,DISP=(,PASS),UNIT=&UWK,SPACE=(TRK,1),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//INIFQ2 EXEC PGM=IDCAMS
//*****
//*:STEPCHAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER.&ROOT.&FILE.FQ,
// DISP=(,KEEP,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=(TRK,0),
// DCB=(&DSCB,RECFM=FB,LRECL=100,BLKSIZE=21600)
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DFFQ,DISP=(OLD,DELETE)
//INIFQ3 EXEC PGM=IEBGENER
//*****
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=100,BLKSIZE=100)
//SYSUT2 DD DSN=&INDUN..&USER.&ROOT.&FILE.FQ(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=(TRK,1),
// DCB=(&DSCB,RECFM=FB,LRECL=100,BLKSIZE=21600)
//*
//INIFH1 EXEC PGM=PRMSYS,PARM='&USER'
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSABOUT DD SYSOUT=&OUT
//PACRIN DD DDNAME=SYSIN
//PACROU DD DSN=&&DFFH,DISP=(,PASS),UNIT=&UWK,SPACE=(TRK,1),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//INIFH2 EXEC PGM=IDCAMS
//*****
//*:STEPCHAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER.&ROOT.&FILE.FH,
// DISP=(,KEEP,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=(TRK,0),
// DCB=(&DSCB,RECFM=FB,LRECL=160,BLKSIZE=24000)
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DFFH,DISP=(OLD,DELETE)
//INIFH3 EXEC PGM=IEBGENER
//*****
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=160,BLKSIZE=160)
//SYSUT2 DD DSN=&INDUN..&USER.&ROOT.&FILE.FH(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=(TRK,1),
// DCB=(&DSCB,RECFM=FB,LRECL=160,BLKSIZE=24000)
//*
// PEND
//GDG EXEC $RADP.GDG
//INIF01.PACRIN DD *
DEFINE GENERATIONDATAGROUP -

```

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COMPLEMENT - Pac/Impact

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```
                (NAME ($INDUN..&USER$ROOT.$FILE.FO) LIMIT (3) SCR)
/*
//INIFR1.PACRIN DD *
    DEFINE GENERATIONDATAGROUP -
        (NAME ($INDUN..&USER$ROOT.$FILE.FR) LIMIT (3) SCR)
/*
//INIFQ1.PACRIN DD *
    DEFINE GENERATIONDATAGROUP -
        (NAME ($INDUN..&USER$ROOT.$FILE.FQ) LIMIT (3) SCR)
/*
//INIFH1.PACRIN DD *
    DEFINE GENERATIONDATAGROUP -
        (NAME ($INDUN..&USER$ROOT.$FILE.FH) LIMIT (3) SCR)
/*
//
```

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4.4.27. COMPLEMENT - PAC/TRANSFER FACILITY

6.2. COMPLEMENT: INSTALLATION OF THE PAC/TRANSFER FACILITY

1. ALLOCATION OF THE PARAMETER FILE

This loading step contains the JOB '\$PRFJ.I30', which includes the following steps:

STEP1 : IDCAMS : This step performs the DELETE/DEFINE of the parameter file (UV).

STEP2 : IDCAMS : Initialization of the parameter file (UV).

This process creates in the parameter file a special record without which the file would be useless.

2. ALLOCATION OF THE JOURNAL FILE

This loading process contains the JOB '\$PRFJ.I31'.

This job allocates, during the first installation, the compressed journal file (JT) and the Transfer file (TJ).

It includes the following steps:

STEP1 : DELETE of the JT and TJ files.
STEP2 : Allocation of the compressed journal file (JT)
and Transfer file, performed by a IEFBR14.

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COMPLEMENT - PAC/TRANSFER FACILITY

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```

//$PRFJ.I30 JOB ($CCPT),'BU VSAM DEF.',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//* PAC/TRANSFER :
//* ALLOCATING THE VSAM UV FILES
//* STEP1 : DELETE DEFINE OF UV FILE
//* STEP2 : INITIALIZING THE PARAMETERS FILE (UV)
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDUN..$ROOT.$FILE.SY(DF$ROOT.$FILE.UV),
// DISP=SHR
//*
//STEP2 EXEC PGM=IDCAMS
//*:STEP2 DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//OU1 DD DSN=$INDUV..$ROOT.$FILE.UV,DISP=SHR
//IN1 DD DSN=$INDSN..$ROOT.$ROOT.SY(MAXKEY),DISP=SHR
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(REPRO),DISP=SHR
//*
//

```

INSTALLATION

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INSTALLATION PROCESS

4

COMPLEMENT - PAC/TRANSFER FACILITY

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```

//$PRFJ.I31 JOB ($CCPT),'BU PREP',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//* PAC/TRANSFER :
//* JOB TO BE EXECUTED DURING THE FIRST INSTALLATION ONLY
//* STEP1 : DELETE COMPRESSED JOURNAL FILE
//* STEP2 : PREALLOCATING COMPRESSED JOURNAL FILE
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDUN..$ROOT.$FILE.SY(DL$ROOT.$FILE.JT),
// DISP=SHR
// DD DSN=$INDUN..$ROOT.$FILE.SY(DL$ROOT.$FILE.TJ),
// DISP=SHR
//STEP2 EXEC PGM=IEFBR14
//ALLOCTJ DD DSN=$INDUN..$ROOT.$FILE.JT,
// DISP=(,CATLG),
// UNIT=$UNITUN,
// VOL=SER=$VOLUN,
// DCB=(RECFM=FB,LRECL=167,BLKSIZE=6179),
// SPACE=(TRK,(60,15))
//ALLOCTJ DD DSN=$INDUN..$ROOT.$FILE.TJ,
// DISP=(,CATLG),
// UNIT=$UNITUN,
// VOL=SER=$VOLUN,
// DCB=(RECFM=FB,LRECL=172,BLKSIZE=8600),
// SPACE=(TRK,(60,15))
//*
```


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COMPLEMENT - VA PAC / TEAMCONNECTION BRIDGE		28

4.4.28. COMPLEMENT - VA PAC / TEAMCONNECTION BRIDGE

6.3. COMPLEMENT - VISUALAGE PACBASE/TEAM CONNECTION BRIDGE

6.3.1. ALLOCATION OF SESSION FILE

This loading step is made of the '\$PRFJ.I40' job, which includes the following steps:

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

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

This process creates in the session file a special record without which the file would be impossible to use.

6.3.2. INSTALLATION OF THE TEAMCONNECTION DICTIONARY

This loading step is made of the '\$PRFJ.I41' job, which includes a call to the VINS procedure.

INSTALLATION

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INSTALLATION PROCESS

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COMPLEMENT - VA PAC / TEAMCONNECTION BRIDGE

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```

//$PRFJ.I40 JOB ($CCPT),'VAP TEAMC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VisualAge Pacbase
//*
//*          - VISUALAGE PACBASE - TEAMCONNECTION BRIDGE -
//* ALLOCATING THE VSAM TS FILE
//*          STEP1 : DELETE DEFINE OF TS FILE
//*          STEP2 : INITIALIZING TS FILE
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(DF$ROOT.$ROOT.TS),
// DISP=SHR
//*
//STEP2 EXEC PGM=IDCAMS
//*:STEP2 DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//OU1 DD DSN=$INDSV..$ROOT.$ROOT.TS,DISP=SHR
//IN1 DD DSN=$INDSN..$ROOT.$ROOT.SY(MAXKEY),DISP=SHR
//SYSIN DD DSN=$INDSN..$ROOT.$ROOT.SY(REPRO),DISP=SHR
//*
//

```

INSTALLATION

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INSTALLATION PROCESS

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COMPLEMENT - VA PAC / TEAMCONNECTION BRIDGE

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```
//$PRFJ.I41 JOB ($CCPT),'PAC I41TEAM',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=( $BIBP )  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION - I41TEAM *  
//*****  
//VISUAL EXEC $RADP.VINS,  
//          FDIC='$INDSN..$ROOT.$ROOT.SYEN(TEAMDIC)'  
*TEST  
//
```

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INSTALLATION TESTS	
UTILIZATION TESTS	

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4.5. *INSTALLATION TESTS*

4.5.1. UTILIZATION TESTS

UTILIZATION TESTS

Tests on the operations are divided into three groups:

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

1. VA PAC DATABASE UTILIZATION TESTS

These tests include the following steps:

- . Tests on on-line use under CICS,
- . Test on batch updating,
- . Test on generation and printing of programs.

VA Pac system on-line tests:

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

Batch Update Test:

- Execute the '\$prfjUPD' JOB (UPDT procedure).
- The VA Pac Database files must be closed under CICS.

Generation-printing Test:

- Execute the '\$prfjGPR' JOB (GPRT procedure).

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

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DATABASE MANAGEMENT TESTS		2

4.5.2. DATABASE MANAGEMENT TESTS

2. VA PAC DATABASE MANAGEMENT TESTS

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

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

1. Archiving of journal created during the utilization testing phase: execute job '\$prfjARC' yielding the PG(1) file.
2. Direct backup of the database: execute job '\$prfjSAV' yielding the PC(1) file.
3. Backup of generation-printing requests: execute job '\$prfjSVG' yielding the PG file.
4. Library management: addition/deletion of a library: execute job '\$prjfMLI' yielding the PC(2) file.
5. Reorganization of the sequential backup, PC(2), of the VA Pac Database: execute job '\$prfjREO' yielding the PC(3) file.
6. Reorganization of sequential backup (PG) of the generation-printing request file, and restoration of the AG file: execute job '\$prfjREG'.
7. Database restoration using the PJ(1) archived transaction file and the PC(3) database backup file: execute job '\$prfjRES'.

The VA Pac Database files must be closed under CICS when 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.

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EXTRACTION-UTILITY TESTS		3

4.5.3. EXTRACTION-UTILITY 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.EXL',
2. Extraction of entities from a library: execute job '\$prfj.EXT',
3. Extraction of selected transactions and/or lists of transactions from the archived journal (PJ): execute job '\$prfj.EXJ'.

The VA Pac Database files can be open 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
INSTALLATION TESTS
TEST JCL: UPDT

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4

4.5.4. TEST JCL: UPDT

```
//$PRFJ.UPD JOB ($CCPT),'PAC JCLUPDT',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLUPDT *  
//* TESTING THE BATCH UPDATE *  
//* .THE PACBASE DATABASE FILES MUST BE CLOSED UNDER CICS *  
//*****  
//UPDT EXEC $RADP.UPDT  
*TEST          XCN  
0 TEST1 TEST  
P5010 N TEST          10BL  
P5010 1 M AA00 BB00  
P5010 2 A 1 IWA10R
```


INSTALLATION
INSTALLATION TESTS
TEST JCL: GPRT

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5
5

4.5.5. TEST JCL: GPRT

```
//$PRFJ.GPR JOB ($CCPT),'PAC JCLGPRT',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLGPRT *  
//*    TEST FOR PRINTING-GENERATION *  
//*****  
//GPRT EXEC $RADP.GPRT,USER=TEST  
*TEST          XCN  
Z LCE  
Z LCP  
/*  
//*
```

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INSTALLATION TESTS	5
TEST JCL: ARCH	6

4.5.6. TEST JCL: ARCH

```
//$PRFJ.ARC JOB ($CCPT),'PAC JCLARCH',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION TEST JCLARCH *  
//*    TEST OF THE JOURNAL ARCHIVAL PROCEDURE *  
//*****  
//ARCH EXEC $RADP.ARCH  
*TEST  
S
```

INSTALLATION	4
INSTALLATION TESTS	5
TEST JCL: SAVE	7

4.5.7. TEST JCL: SAVE

```
//$PRFJ.SAV JOB ($CCPT),'PAC JCLSAVE',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION TEST JCLSAVE *  
//* TESTING THE DATABASE BACKUP *  
//*****  
//SAVE EXEC $RADP.SAVE  
*TEST
```

INSTALLATION	4
INSTALLATION TESTS	5
TEST JCL: MLIB	8

4.5.8. TEST JCL: MLIB

```
//$PRFU.MLI JOB ($CCPT),'PAC JCLMLIB',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLMLIB *  
//* TESTING THE LIBRARIAN *  
//*****  
//MLIB EXEC $RADP.MLIB  
*TEST  
G          EXISTING DATABASE - NO SIMULATION  
C*AP5XCN  CREATES AP5 LIBRARY (UNDER XCN)  
//*
```

INSTALLATION	4
INSTALLATION TESTS	5
TEST JCL: REOR	9

4.5.9. TEST JCL: REOR

```
//$PRFJ.REO JOB ($CCPT),'PAC JCLREOR',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION TEST JCLREOR *  
//* TESTING OF THE DATABASE REORGANIZATION *  
//*****  
//REOR EXEC $RADP.REOR  
*TEST  
V0010  
BAP5
```

INSTALLATION	4
INSTALLATION TESTS	5
TEST JCL: SVAG	10

4.5.10. TEST JCL: SVAG

```
//$PRFJ.SVG JOB ($CCPT),'PAC JCLSVAG',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLSVAG *  
//* TESTING THE AG FILE BACKUP *  
//*****  
//SVAG EXEC $RADP.SVAG  
*TEST  
//PTU550.PAC7GP DD DUMMY,DCB=BLKSIZE=150
```

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INSTALLATION TESTS	5
TEST JCL: REAG	11

4.5.11. TEST JCL: REAG

```
//$PRFJ.REG JOB ($CCPT),'PAC JCLREAG',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION TEST JCLREAG *  
//* TESTING THE REORGANIZATION/RESTORE OF 'AG' *  
//*****  
//REAG EXEC $RADP.REAG  
*TEST  
AG
```

INSTALLATION
 INSTALLATION TESTS
 TEST JCL: REST

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4.5.12. TEST JCL: REST

```
//$PRFJ.RES JOB ($CCPT),'PAC JCLREST',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VisualAge Pacbase *
//* *
//*          INSTALLATION TEST JCLREST *
//* TESTING THE RESTORATION WITH THE JOURNAL, AFTER REOR. *
//* *
//* 1000 GAPS REQUESTED. *
//* AFTER THE RESTORATION OF THE PACBASE DATABASE, MAKE A FEW *
//* QUICK TESTS FOR ON-LINE FUNCTIONNING, AFTER HAVING RE-OPENED *
//* THE PACBASE DATABASE FILES. *
//*****
//REST EXEC $RADP.REST,
// ARCHJRNL='$INDUN..$ROOT.$FILE.PJ(0)'
*TEST
Y01000 REC
//*
```


INSTALLATION
INSTALLATION TESTS
TEST JCL: EXLI

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4.5.13. TEST JCL: EXLI

```
//$PRFJ.EXL JOB ($CCPT),'PAC JCLEXLI',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLEXLI *  
//*    EXTRACTION OF LIBRARIES *  
//*****  
//EXLI EXEC $RADP.PACX,USER='TEST'  
*TEST          XCN          EXLI1  
//* //UPDT EXEC $RADP.UPDT  
//* //INPUT.CARTE DD DSN=&&MV,DISP=(OLD,PASS),DCB=BLKSIZE=6160
```

INSTALLATION
INSTALLATION TESTS
TEST JCL: EXTR

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4.5.14. TEST JCL: EXTR

```
//$PRFJ.EXT JOB ($CCPT),'PAC JCLEXTR',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLEXTR *  
//*    EXTRACTION OF ENTITIES *  
//*****  
//EXTR EXEC $RADP.PACX,USER='TEST'  
C*TEST          XCN          EXTR1  
WLEXCEXADFNR  
WLEXCPFL20SL  
WLEXUDTX  
WLEXCSTX10  
//* //UPDT EXEC $RADP.UPDT  
//* *TEST  
//* //INPUT.CARTE DD DSN=&&MV,DISP=(OLD,PASS),DCB=BLKSIZE=6160
```

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INSTALLATION TESTS
TEST JCL: EXPJ

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4.5.15. TEST JCL: EXPJ

```
//$PRFJ.EXJ JOB ($CCPT),'PAC JCLEXPJ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//*          INSTALLATION TEST JCLEXPJ *  
//*  EXTRACTION FROM ARCHIVED TRANSACTIONS 'PJ' FILE *  
//*****  
//EXPJ EXEC $RADP.PACX,USER='TEST'  
*TEST          EXPJ1  
JS
```

INSTALLATION
INSTALLATION TESTS
TEST JCL: UXSR

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4.5.16. TEST JCL: UXSR

```
//$PRFJ.UXS JOB ($CCPT),'PAC UXSR',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=( $BIBP )  
//*****  
//* VisualAge Pacbase *  
//* * *  
//*          INSTALLATION TEST JCLUXSR *  
//*****  
//* * *  
//UXSR EXEC $RADP.UXSR  
*TEST 1  
C*CEN CEN  
/*  
//
```

4.6. UTILIZATION TEST: Pac/Impact

4. TESTS OF THE 'Pac/Impact' FUNCTION

The purpose of these tests is to execute the procedures of the Pac/Impact function.

In order to perform the tests, it is recommended to create a separate database for the UXSR procedure.

Initialization of the FP and FQ files must be performed.

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

- . Definition of entry points: Run the '\$prfj.ISE' job, specifying the selection lines, as well as the context.
- . Definition of complementary entry points: Run the '\$prfj.ISO' job, specifying the selection lines and context. (This step is optional.)
- . Printing of entry points: Run the '\$prfj.IPE' job.
- . Impact analysis: Run the '\$prfj.IAN' job. For the purpose of the tests, one execution of the procedure may be sufficient.
- . Result printing: Run the '\$prfj.IPI' job, specifying the context as well as desired printouts.
- . Printing of impacted criteria: Run the '\$prfj.IPQ' job.

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UTILIZATION TEST: Pac/Impact
TEST JCL: ISEP

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4.6.1. TEST JCL: ISEP

```
//$PRFJ.ISE JOB ($CCPT),'PAC ISEP',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//* - IMPACT ANALYSIS - *  
//* INSTALLATION TEST JCLISEP *  
//*****  
//*  
//ISEP EXEC $RADP.ISEP  
*TEST *** E  
EDAT***  
/*  
//
```

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UTILIZATION TEST: Pac/Impact	6
TEST JCL: IPEP	2

4.6.2. TEST JCL: IPEP

```
//$PRFJ.IPE JOB ($CCPT),'PAC IPEP',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//* - IMPACT ANALYSIS - *  
//* INSTALLATION TEST JCL IPEP *  
//*****  
//* * *  
//IPEP EXEC $RADP.IPEP  
//
```

INSTALLATION	4
UTILIZATION TEST: Pac/Impact	6
TEST JCL: IANA	3

4.6.3. TEST JCL: IANA

```
//$PRFJ.IAN JOB ($CCPT),'PAC IANA',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//* - IMPACT ANALYSIS - *  
//* INSTALLATION TEST JCLIANA *  
//*****  
//* * *  
//IANA EXEC $RADP.IANA  
//
```


INSTALLATION	4
UTILIZATION TEST: Pac/Impact	6
TEST JCL: IPIA	4

4.6.4. TEST JCL: IPIA

```
//$PRFJ.IPI JOB ($CCPT),'PAC IPIA',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VisualAge Pacbase *
//* * *
//* - IMPACT ANALYSIS - *
//* INSTALLATION TEST JCL IPIA *
//*****
//*
//IPIA EXEC $RADP.IPIA
*TEST *** E
P BIB111111
/*
//
```

INSTALLATION	4
UTILIZATION TEST: Pac/Impact	6
TEST JCL: IPFQ	5

4.6.5. TEST JCL: IPFQ

```
//$PRFJ.IPQ JOB ($CCPT),'PAC IPEP',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//* - IMPACT ANALYSIS - *  
//* INSTALLATION TEST JCLIPFQ *  
//*****  
//* * *  
//IPFQ EXEC $RADP.IPFQ  
//
```

INSTALLATION	4
UTILIZATION TEST: Pac/Impact	6
TEST JCL: ISOS	6

4.6.6. TEST JCL: ISOS

```
//$PRFJ.ISO JOB ($CCPT),'PAC ISOS',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* * *  
//* - IMPACT ANALYSIS - *  
//* INSTALLATION TEST JCLISOS *  
//*****  
//*  
//ISOS EXEC $RADP.ISOS  
*TEST *** E  
DDATOR  
/*  
//
```

4.7. UTILIZATION TESTS: PAC/TRANSFER

5. TESTS OF THE PAC/TRANSFER FUNCTION

The purpose of these tests is to execute the procedures of the PAC/TRANSFER versioning management procedures. (For further details, see the BATCH PROCEDURES Operations Manual: Administrator's Guide, Chapter VERSIONING.)

To perform the tests, the VA Pac database Journal must have been archived.

The tests include the following steps, which should be performed in that order:

- . Update of the transaction parameters: Execute the '\$prfj.RUP' job, specifying the required transaction parameters in the input transaction stream.
- . Compression of the archived Journal (optional test): Execute the '\$prfj.RJC' job, specifying the name of the archived Journal file to be compressed.
- . Creation of the transaction file: Execute the '\$prfj.RPF' 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.RDU' job, specifying the SET to be processed, then run a batch update of the DSMS database with the first stream of transactions generated by the DUPD procedure.
- . Generation of transactions: Execute the '\$prfj.RRP' job, specifying the user code and password and selecting all the SETs and all the sessions to be processed.
- . Update of the VA Pac database by the UPDT procedure with the generated transferred transactions.
- . Reinitialization of the DSMS environment (this test is optional, and necessary only when the VA Pac database is under DSMS control): Batch update of the DSMS database with the second stream of transactions generated by the DUPD procedure.

INSTALLATION

4

UTILIZATION TESTS: PAC/TRANSFER

7

TEST JCL: TRUP

1

4.7.1. TEST JCL: TRUP

```
//$PRFJ.RUP JOB ($CCPT), 'TRUP', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
/* VisualAge Pacbase *
/* * *
/* PAC/TRANSFER: UPDATING THE PARAMETERS FILE *
//*****
//TRUP EXEC $RADP.TRUP
*TEST
LLLLLGSXXXX XXXX
LLLLLGBXXX
LLLLLGU-----
LLLLLGC...-----
/*
//
```

INSTALLATION

4

UTILIZATION TESTS: PAC/TRANSFER

7

TEST JCL: TRPF

2

4.7.2. TEST JCL: TRPF

```
//$PRFJ.RPF JOB ($CCPT),'TRPF',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* VisualAge Pacbase *  
//* *  
//* PAC/TRANSFER: CREATING THE TRANSFER FILE *  
//*****  
//TRPF EXEC $RADP.TRPF  
//INPUT.CARTE DD *  
*TEST  
LTLLLL  
/*  
//
```

INSTALLATION

4

UTILIZATION TESTS: PAC/TRANSFER

7

TEST JCL: TRRP

3

4.7.3. TEST JCL: TRRP

```
//$PRFJ.RRP JOB ($CCPT),'TRRP',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
/* VisualAge Pacbase *
/* *
/* PAC/TRANSFER : GENERATING THE TRANSFER TRANSACTIONS *
//*****
//TRRP EXEC $RADP.TRRP
//INPUT.CARTE DD *
*TEST LLLLL
/*
//* TRANSFER TRANSACTIONS FOR PACBASE UPDATE (UPDT) INPUT
//PACX.PAC7MV DD DSN=---.---.---,DISP=SHR
//
```

INSTALLATION

4

UTILIZATION TESTS: PAC/TRANSFER

7

TEST JCL: TRJC

4

4.7.4. TEST JCL: TRJC

```
//$PRFJ.RJC JOB ($CCPT), 'TRJC', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VisualAge Pacbase *
//* *
//* PAC/TRANSFER: COMPRESSING THE ARCHIVED JOURNAL FILE *
//*****
//TRJC EXEC $RADP.TRJC
//INPUT.CARTE DD *
*TEST
00
/*
/* ARCHIVED JOURNAL FILE TO COMPRESS
//PTUG05.PAC7PJ DD DSN=---,---,---,DISP=SHR
//*
//
```


INSTALLATION

4

UTILIZATION TESTS: PAC/TRANSFER

7

TEST JCL: TRDU

5

4.7.5. TEST JCL: TRDU

```
//$PRFJ.RDU JOB ($CCPT), 'TRDU', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
/* VisualAge Pacbase *
/* * *
/* PAC/TRANSFER: PREPARING THE DSMS ENVIRONMENT *
//*****
//TRDU EXEC $RADP.TRDU
*TEST
LTL L L L L L
/*
/* * TRANSACTIONS FOR DSMS UPDATE BEFORE EXECUTION OF THE VA PAC
/* * UPDT PROCEDURE
//CREAV.SYSUT2 DD DSN=---,---,---,DISP=SHR
/* * TRANSACTIONS FOR DSMS UPDATE AFTER EXECUTION OF THE VA PAC
/* * UPDT PROCEDURE
//CREAP.SYSUT2 DD DSN=---,---,---,DISP=SHR
//
```

4.8. UTILIZATION TESTS: VA PAC - VA SMALLTALK

UTILIZATION TESTS: VA PAC - VA SMALLTALK INTERFACE

To be able to test the procedures that make up the Interface between VisualAge Pacbase and VisualAge Smalltalk, you need a VA Pac test database, and a file provided by VA Smalltalk (for the VUP1 procedure), compatible with the VA Pac test database.

The procedures must be executed in the following sequence:

- . VUP1 (JOB \$PRFJ.VU1)
- . VUP2 (JOB \$PRFJ.VU2)
- . VDWN (JOB \$PRFJ.VDW)
- . VPUR (JOB \$PRFJ.VPU)

INSTALLATION

4

UTILIZATION TESTS: VA PAC - VA SMALLTALK

8

TEST JCL: VUP1

1

4.8.1. TEST JCL: VUP1

```
//$PRFJ.VU1 JOB ($CCPT),'VUP1',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
/* VisualAge Pacbase *
/* * *
/* VA Smalltalk-VA Pac Interface *
/*      CALCULATION OF VA PAC CODES *
//*****
//VUP1 EXEC $RADP.VUP1,
// PBCOD=---.---.---,
// FICVIS=---.---.---,
// VISUTIL=---.---.---
//PVA310.PAC7CA DD DSN=---.---.---,DISP=SHR
```

INSTALLATION

4

UTILIZATION TESTS: VA PAC - VA SMALLTALK

8

TEST JCL: VUP2

2

4.8.2. TEST JCL: VUP2

```
//$PRFJ.VU2 JOB ($CCPT),'VUP2',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VisualAge Pacbase *
//* * *
//* VA Smalltalk-VA Pac Interface *
//*      UPLOAD (GENERATE TRANSACTIONS FOR UPDT) *
//*****
//VUP2 EXEC $RADP.VUP2,
//      VISUTIL=---.---.---,
//      PBCOD=---.---.---,
//      MVUPDT=---.---.---
```

INSTALLATION

4

UTILIZATION TESTS: VA PAC - VA SMALLTALK

8

TEST JCL: VDWN

3

4.8.3. TEST JCL: VDWN

```
//$PRFJ.VDW JOB ($CCPT),'VDWN',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
//      JCLLIB ORDER=($BIBP)
//*****
/* VisualAge Pacbase *
/* * *
/* VA Smalltalk-VA Pac Interface *
/* DOWNLOAD *
//*****
//VDWN EXEC $RADP.VDWN,
//      MVGPR=----.----.----,
//      MVVISUAL=----.----.----
//INPUT.CARTE DD *
*TEST          BIB
/*
```


5. INSTALLATION OF A NEW SUB-RELEASE

5.1. STANDARD REINSTALLATION

STANDARD SYSTEM RE-INSTALLATION

Upon receiving a new cartridge (or tape) of the current release of VisualAge Pacbase, containing improvements from the previous sub-release, you must perform a re-installation of the VA Pac system.

The new sub-release is identified by a number, and is delivered in the following form:

- . a complete installation tape,
- . the list of corrected bugs,
- . a set of instructions may also be included to complete the reinstallation instructions given below.

Generally, only program libraries and system files are affected by the new sub-release.

Three different cases may occur:

1. Installation JCL's have been kept
2. Installation JCL's must be regenerated
3. Non-standard re-installation.

1. INSTALLATION JCLs HAVE BEEN KEPT

The STANDARD RE-INSTALLATION procedure consists of executing the jobs contained in the following JCL modules:

- 1) D04MBR : \$prfj.D4B job: loading of batch programs
- 2) D04MTR : \$prfj.D4O job: loading on-line programs
- 3) D04VS : \$prfj.D4V job: loading Cobol/VS sub-programs
- 4) D06SKEL: \$prfj.D6 job: loading skeleton files
- 5) D07AE0 : \$prfj.D7 job: loading error messages
- 6) D07PARM: \$prfj.D7P job: execution of the PARM procedure.

- 1) D04MBR: reloading of batch load-modules (Change the tape name in the VOL=SER= parameter)

NOTE:

This JOB deletes the load-module library, and executes the allocation and the copy of all programs. There are two procedural methods:

A. Complete job execution:

In this case, it is necessary to backup the programs stored in the libraries and which do not come directly from the installation tape (user programs), before executing the job.

B. Execution of the COPY step (IEBCOPY):

In this case, it is recommended that programs which are to be copied be deleted first, in order to avoid disk space problems.

- 2) D04MTR: reloading of on-line load-modules (Change the tape name in the VOL=SER= parameter)

NOTE:

This JOB deletes the load-module library, and executes the allocation and the copy of all programs. There are two procedural methods:

A. Complete job execution:

In this case, it is necessary to backup the programs stored in the libraries and which do not come directly from the installation tape (user programs), or programs that have been modified (such as xxR000, xxR005 and xxR300), before executing the job;

B. Execution of the COPY step (IEBCOPY):

In this case, it is recommended to have previously deleted programs which are to be copied, in order to avoid space problems.

- 3) D04VS: reloading of Cobol/VS sub-programs, only if they are used by the Cobol/VS user application programs. (Change the tape name in the VOL=SER= parameter)
- 4) D06SKEL: reloading of generation skeleton file. (Change the tape name in the VOL=SER= parameter.)

IDCAMS: DELETE/DEFINE and REPRO of the skeleton files.

- 5) D07AE0: reloading of error messages and documentation file. (Change the tape name in the VOL=SER= paramter.)

Reloading of the AE0 file: using IEBGENER.

- 6) D07PARM: reloading of error messages and documentation file, with retrieval of the user parameters.

IMPORTANT:

The PARM procedure may require user input, depending on the following:

1. There are no additional user parameters to be added for the reinstallation (no new users, no new VA Pac access keys, etc.), and the parameter backup (generation file whose DSNNAME suffix is PE) is valid: the only user input for PARM will be the NRREST command.
2. There are additional user parameters to be added for the re-installation, or the backup is invalid. In this case, user input for PARM will be the NRCHAR command.

2. INSTALLATION JCL's MUST BE REGENERATED FOR A STANDARD RE-INSTALLATION

For detailed information, refer to Subchapters 'Installation Preparation' and 'Installation of the complete JCL'.

JCL regeneration consists in re-executing the MM1JCL utility using the parameters provided at installation, and adding the JCL's necessary for reinstallation.

The following JCL module selection lines must be added to the SYSIN:

```
===SELM D04MBR  
===SELM D04MTR  
===SELM D04VS  
===SELM D06SKEL  
===SELM D07AE0  
===SELM D07PARM
```

Check the resulting JCL's and proceed with the installation according to the steps described in paragraph 1 above.

3. INSTALLATION JCL's MUST BE REGENERATED IN CASE OF A NON-STANDARD RE-INSTALLATION

For detailed information, refer to Subchapters "INSTALLATION PREPARATION" and "INSTALLATION OF THE COMPLETE JCL"

JCL regeneration consists of re-executing the MM1JCL utility using the parameters chosen for installation, and adding the JCL's necessary for reinstallation. These JCL's are indicated in the note enclosed with the sub-release medium.

Once the JCL are regenerated, you may proceed to a standard installation according to the procedure described in paragraph 1 above, and the specific instructions indicated in the note enclosed with the sub-release tape.

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6. RETRIEVAL OF PACBASE 802.02,, 2.0

6.1. FOREWORD

RETRIEVAL OF PACBASE 8.02v02, 1.5, 1.6, AND 2.0

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 VisualAge Pacbase Support.

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6.2. RETRIEVAL OF PACBASE 2.0

6.2.1. RETRIEVAL OPERATIONS

VISUALAGE PACBASE 2.0 RETRIEVAL 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.

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 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.

CASE 1: YOUR 2.5 RELEASE IS IN A NEW ENVIRONMENT

1. Reinstallation of user parameters

- . Backup of the user parameters, producing a PE file, old release (PARM procedure R 2.0).
- . 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.

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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).

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).
- . 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.

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CASE 2: YOUR 2.5 RELEASE IS IN THE SAME ENVIRONMENT AS THE 2.0 RELEASE

In this case, there is only one retrieval process to be performed: on the generation-print command file. This file must be backed up by the SVAG 2.0 procedure.

The following steps must be performed:

- . Deparameterization of the JCL, according to the installation parameters of the existing release.
- . CICS CSD update:
 - All maps can be deleted from tables.
 - The xxR980 program must be defined.
- . Parameter loading:
 - D02CPAR: new members DFSYIANA and DLSYIANA.
 - D02DICVG and D02DICMT: for Dictionary update.
- . Load-module loading:
 - D04MBR - Batch programs.
 - D04MTR - On-line programs.
 - D04VS - Cobol VS programs (if necessary).
- . Batch procedure cataloging:
 - Two new procedures: IGRA and RPPG.
 - Three procedures have been modified: REOR, IANA, and VUP1. (Refer to Subchapter 'JCL differences'.)
- . Generation skeleton loading: D06SKEL
- . Error message loading: D07AE0, followed by D07PARM (NRCHAR command).
- . Database parameter loading: I02SY
 - Integration of member DFxxyyVP.
- . Retrieval of generation-print commands (RPPG) producing a PG file in the new release format.
- . Restoration of generation-print commands from the previous backup (REAG procedure of the new release).
- . For users of the WorkStation:

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- UPDT - Update of the methodology's entities.
- PARM - Update of the methodology's choices.

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. For users of the VA Pac/VA Smalltalk Interface:

- I11VGE - Update of user entities.

. For users of the VA Pac/TeamConnection Interface:

- I41TEAM - Update of user entities.

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RETRIEVAL OF PACBASE 2.0

2

RPPG: RETRIEVAL OF GENERATION-PRINT REQUESTS FILE

2

6.2.2. RPPG: RETRIEVAL OF GENERATION-PRINT REQUESTS FILE

```

//*****
//* VisualAge Pacbase *
//* *
//* - RETRIEVAL OF THE 'PG' FILE - *
//*****
//$RADP.RPPG PROC FILE=$FILE, NUMBER OF PHYSICAL DATABASE
// ROOT=$ROOT, ROOT OF THE VA PAC SYSTEM
// INDUN=$INDUN, INDEX OF NON-VSAM USER FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', VA PAC SYSTEM VSAM CATALOG
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES
// UNITS=$UNITUN, UNIT OF BACKUP
// VOLS=$SER=$VOLUN', VOLUME OF BACKUP
// DSCB='$DSCB', DSCB MODEL FILE
// OLDPG=, DSNAME OF OLD BACKUP
// SPAPG='(TRK,(20,5),RLSE)', 'SPACE' OF BACKUP
// OUT=$OUT OUTPUT CLASS
//*****
//PTU908 EXEC PGM=PTU908
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPDAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7IN DD DSN=&OLDPG,DISP=SHR
//PAC7OU DD DSN=&INDUN.&ROOT.&FILE.PG(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=&SPAPG,
// DCB=(&DSCB,RECFM=FB,LRECL=150,BLKSIZE=6150)
//SYSUDUMP DD SYSOUT=&OUT

```

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6.3. RETRIEVAL OF PACBASE 802.02, , 1.6

6.3.1. OPERATIONS TO BE PERFORMED

RETRIEVAL OF PACBASE 802v02, , 1.6: OPERATIONS

FOREWORD

Users of the WorkStation, DSMS, and Pactables facilities should make sure of the operating compatibility of these products with VisualAge Pacbase, according to the releases in use.

The present VA Pac release supports:

- . WorkStation: new release
- . DSMS: any release from 8.0.2 --compatible with Pacbase 8.0.2
- . Pactables: all releases

NOTE: Users of Pactables release 7.3 or 8.0 need a special PTA250 program to use with the GETT batch procedure. Contact VisualAge Pacbase Support to order this program.

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.

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 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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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 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.

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RETRIEVAL OF PACBASE 802.02, , 1.6
PJ16: RETRIEVAL OF ARCHIVE JOURNAL

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6.3.2. PJ16: RETRIEVAL OF ARCHIVE JOURNAL

```
//*****  
//* VisualAge Pacbase *  
//* *  
//* - RETRIEVAL OF 1.6 ARCHIVE JOURNAL BACKUP FOR 2.0 - *  
//*****  
//$RADP.PJ16 PROC ROOT=$ROOT, ROOT OF THE PACBASE SYSTEM  
// FILE=$FILE, PHYSICAL DATABASE NUMBER  
// INDUN='$INDUN', INDEX OF NON-VSAM SYSTEM FILES  
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES  
// OUT=$OUT, OUTPUT CLASS  
// PJ16=, DSNNAME OF 1.6 ARCHIVAL JOURNAL BACKUP  
// VOLS='$SER=$VOLUN', JOURNAL BACKUP VOLUME  
// UNITS=$UNITUN, BACKUP UNIT (DISK OR CARTRIDGE)  
// DSCB='$DSCB', DSCB MODEL FILE  
// SPAPJ='(TRK,(10,1),RLSE)' BACKUP 'SPACE'  
//*****  
//REP2PJ EXEC PGM=REP2PJ  
//*****  
//STEPLIB DD DSN=&STEPLIB,DISP=SHR  
//SYSOUT DD SYSOUT=&OUT  
//SYSUDUMP DD SYSOUT=&OUT  
//PAC7PJ DD DSN=&PJ16,DISP=SHR  
//PAC7JP DD DSN=&INDUN.&ROOT.&FILE.PJ(+1),DISP=(,CATLG,DELETE),  
// UNIT=&UNITS,  
// VOL=&VOLS,  
// SPACE=&SPAPJ,  
// DCB=(&DSCB,RECFM=FB,LRECL=167,BLKSIZE=6179)
```

RETRIEVAL OF PACBASE 802.02,, 2.0

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RETRIEVAL OF PACBASE 802.02,, 1.6

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PJ16: RETRIEVAL OF ARCHIVE JOURNAL

2

```

//*****
//* VisualAge Pacbase *
// *
// * - PEI OPTION : TRANSFORMATION OF 1.6 FILES - *
//*****
//$RADP.PP16 PROC ROOT=$ROOT, ROOT OF THE PACBASE SYSTEM
// FILE=$FILE, NUMBER OF PHYSICAL DATABASE,
// INDUN=$INDUN', INDEX OF USER NON VSAM FILES
// OLDPP='NULLFILE', 1.6 PEI FILES BACKUP DSNAME
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', PACBASE SYSTEM VSAM CATALOG
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES
// OUT=$OUT, OUTPUT CLASS
// VOLS='SER=$VOLUN', BACKUP VOLUME
// UNITS=$UNITUN, BACKUP UNIT (DISK OR CARTRIDGE)
// DSCB='$DSCB', DSCB MODEL FILE
// SPAPP='(TRK,(5,2),RLSE)' BACKUP SPACE (IF DISK)
//*****
//PACR90 EXEC PGM=PACR90
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7PE DD DSN=&OLDPP,DISP=SHR
//PAC7PS DD DSN=&INDUN.&ROOT.&FILE.PP(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=&SPAPP,
// DCB=(&DSCB,LRECL=110,RECFM=FB,BLKSIZE=6160)
//SYSUDUMP DD SYSOUT=&OUT

```


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TRRT (PAC/TRANSFER FACILITY)	3	

6.3.3. TRRT (PAC/TRANSFER FACILITY)

6.3.3.1. TRRT: INTRODUCTION

TRRT: RETRIEVAL OF PARAMETERS FILE - OPERATIONS TO PERFORM

PRESENTATION OF TRRT

In releases earlier than 1.6, only one set of parameters could be stored in the UV Parameters file.

To define another Transaction Set, the duplication of the parameters was necessary. According to needs, the procedures' execution JCL had to be adapted to use different Parameters files.

It is now possible to store several Sets of parameters in a single file.

>>>> In any case, the format of UV Parameters files earlier than Rel. 1.6 is not compatible with Pac/Transfer 2.0. This is why the TRRT procedure must be executed on all 'old' UV files.

OPERATING MODE

You may use the TRUP procedure which creates the 1.6 UV Parameters file, defining all Transactions Sets. In this case, you will have to reenter information already entered in your older file(s).

If the number of files to process is high, the operation may imply a substantial workload. This is when the TRRT utility comes in handy.

For each former UV file, TRRT generates parameters in the adequate format, under a Transaction Set code you have specified in input.

NOTE: One TRRT execution can process one former UV file only. You must run TRRT as many times as there are 'old' UV files.

Once all former UV files are processed, use these generated parameters in input to the TRUP procedure.

NOTE: If you run a single TRUP execution including all Transaction Sets, make sure that each Set comes in with a distinct code.

As a result, you have an up-to-date UV Parameters file including all your Transaction Sets.

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TRRT (PAC/TRANSFER FACILITY)	3	

6.3.3.2. TRRT: USER INPUT

RETRIEVAL OF PACBASE 802.02,, 2.0
RETRIEVAL OF PACBASE 802.02,, 1.6
TRRT (PAC/TRANSFER FACILITY)

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USER INPUT

. User identification line (required)

```
-----  
!Pos.! Len.! Value   ! Significance !  
!-----!  
!  2 !   1 ! '*'     ! Line code   !  
!  3 !   8 ! uuuuuuu ! User code   !  
! 11 !   8 ! ppppppp ! Password    !  
-----
```

. Definition of Transaction Set (required)

```
-----  
!Pos. ! Len.! Value   ! Significance !  
!-----!  
!  2 !   2 ! 'LT'    ! Line code   !  
!-----!  
!  3 !   5 ! lllll   ! Transaction Set code !  
-----
```

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6.3.3.3. TRRT: DESCRIPTION OF STEPS

RETRIEVAL OF PACBASE 802.02,, 2.0
RETRIEVAL OF PACBASE 802.02,, 1.6
TRRT (PAC/TRANSFER FACILITY)

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TRRT: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

SEQUENTIAL COPY OF OLDER UV FILE: IDCAMS

.Input file:
-Former-release UV file
IN1 : DSN= UV802 parameter of the procedure

.Output file:
-Former-release UV file, sequential format
OUT1: DSN=&&TRRTUA

CREATION OF TRANSACTIONS FOR TRUP: PTUG90

This step generates transactions associated to the creation of the UV file, rel. 2.0.

.Permanent input files:
-Data file
PAC7AR: DSN=&INDUVX..&ROOT.&FILE.AR
-Error messages
PAC7AE: DSN=&INDSV..&ROOT.&ROOT.AE
-2.0 parameter file
PAC7UV: DSN=&INDUV..&ROOT.&FILE.UV
-Older, sequential, UV file
PAC7UA: DSN=&&TRRTUA

.Transaction file:
-User input
PAC7MB: DSN=&&TRRTMB

.Output file:
-Transactions associated to the update of the UV 2.0 file for TRUP
PAC7MU: DSN=&&TRRTMU

.Output reports:
-List of entries
PAC7ET
-User check
PAC7DD

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TRRT (PAC/TRANSFER FACILITY)	3	

6.3.3.4. TRRT: EXECUTION JCL

RETRIEVAL OF PACBASE 802.02,, 2.0
 RETRIEVAL OF PACBASE 802.02,, 1.6
 TRRT (PAC/TRANSFER FACILITY)

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```

//*****
//* VisualAge Pacbase *
// * *
//* PAC/TRANSFER: *
//* RETRIEVAL OF THE UV PARAMETER FILE, REL. OLDER THAN 1.6 *
//*****
//$RADP.TRRT PROC FILE=$FILE, NUMBER OF PHYSICAL DATABASE
// ROOT=$ROOT, ROOT OF THE PACBASE SYSTEM
// INDSVX='$INDSVX', INDEX OF PACBASE SYSTEM FILE (AE)
// INDUV='$INDUV', INDEX OF VSAM USER FILE
// INDSV='$INDSV', INDEX OF VSAM SYSTEM FILE
// INDUN='$INDUN', INDEX OF NON VSAM FILE
// OUT=$OUT, OUTPUT CLASS
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', PACBASE SYSTEM VSAM CATALOG
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES
// UV802=, DSN OF UV FILE TO BE RETRIEVED (8.02)
// SPAUA='(TRK,(10,5),RLSE)', TEMPORARY 'UA' FILE SPACE
// SPAMU='(TRK,(10,5),RLSE)', TEMPORARY 'MU' FILE SPACE
// UWK=$UWK WORK UNIT
//*****
//INPUT EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB DD DSN=&&TRRTMB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//REUV802 EXEC PGM=IDCAMS
//*****
//IN1 DD DSN=&UV802,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDUN..&ROOT.&FILE.SY(REPRO),DISP=SHR
//OU1 DD DSN=&&TRRTUA,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAUA,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000)
//PTUG90 EXEC PGM=PTUG90
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AR DD DSN=&INDUV..&ROOT.&FILE.AR,DISP=SHR
//PAC7AE DD DSN=&INDSV..&ROOT.&ROOT.AE,DISP=SHR
//PAC7UV DD DSN=&INDUV..&ROOT.&FILE.UV,DISP=SHR
//PAC7DD DD SYSOUT=&OUT
//PAC7ET DD SYSOUT=&OUT
//PAC7MB DD DSN=&&TRRTMB,DISP=(OLD,PASS)
//PAC7UA DD DSN=&&TRRTUA,DISP=(OLD,PASS)
//PAC7MU DD DSN=&&TRRTMU,DISP=(,PASS),
// UNIT=&UWK,SPACE=&SPAMU,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000)

```

6.4. JCL DIFFERENCES

LIST OF PROCEDURES MODIFIED FOR RELEASE 2.5

REOR :

 Addition of step PTU2CL

```
I - //PTU200 EXEC PGM=PTU200,COND=(0,NE,PTU2CL)
D - //PTU200 EXEC PGM=PTU200
I - //PAC7MB DD DSN=&&REORBM,DISP=(OLD,PASS)
D - //PAC7MB DD DSN=&&REORMB,DISP=(OLD,PASS)

I - //SORTQS EXEC PGM=SORT,COND=(0,NE,PTU2CL),(0,NE,PTU200)
D - //SORTQS EXEC PGM=SORT,COND=(0,NE,PTU200)

I - //PTU208 EXEC PGM=PTU208,
I - // COND=((0,NE,PTU2CL),(0,NE,PTU200),(0,NE,SORTQS))
D - //PTU208 EXEC PGM=PTU208,COND=((0,NE,PTU200),(0,NE,SORTQ
I - //PAC7MB DD DSN=&&REORBM,DISP=(OLD,PASS)
D - //PAC7MB DD DSN=&&REORMB,DISP=(OLD,PASS)

I - //PTU210 EXEC PGM=PTU210,
I - // COND=((0,NE,PTU2CL),(0,NE,PTU200),(0,NE,SORTQS))
D - //PTU210 EXEC PGM=PTU210,COND=((0,NE,PTU200),(0,NE,SORTQ
I - //PAC7MB DD DSN=&&REORBM,DISP=(OLD,PASS)
D - //PAC7MB DD DSN=&&REORMB,DISP=(OLD,PASS)

step PTU220
I - // COND=((0,NE,PTU2CL),(0,NE,PTU200),(0,NE,SORTQS),
(0,NE,PTU210))
D - // COND=((0,NE,PTU200),(0,NE,SORTQS),(0,NE,PTU210))

step SORTAN
I - // COND=((0,NE,PTU2CL),(0,NE,PTU200),(0,NE,SORTQS),
(0,NE,PTU210))
D - // COND=((0,NE,PTU200),(0,NE,SORTQS),(0,NE,PTU210))

I - //PTU240 EXEC PGM=PTU240,COND=((0,NE,PTU2CL),(0,NE,PTU20
I - // (0,NE,SORTQS),(0,NE,PTU210),(0,NE,SORTAN))
D - //PTU240 EXEC PGM=PTU240,COND=((0,NE,PTU200),
D - // (0,NE,SORTQS),(0,NE,PTU210),(0,NE,SORTAN))
I - //PAC7MB DD DSN=&&REORBM,DISP=(OLD,DELETE)
D - //PAC7MB DD DSN=&&REORMB,DISP=(OLD,DELETE)
```

IANA :

For sites where SMS is not installed, the FQ file is no longer a temporary file.

RETRIEVAL OF PACBASE 802.02, , 2.0
JCL DIFFERENCES

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VDWN, VPUR, VUP1, and VUP2:

Use of BLSR for optimization.
Addition of a VERIFY on the database files.
The VC file is replaced by the VP file.

LIST OF PROCEDURES MODIFIED FOR RELEASE 2.0

ARCH - CAUTION: user entry has been modified

```
step PTU300
I - //          DCB=(&DSCB,RECFM=FB,LRECL=167,BLKSIZE=6179)
D - //          DCB=(&DSCB,RECFM=FB,LRECL=165,BLKSIZE=6105)
I - //PAC7PQ   DD DUMMY,DCB=BLKSIZE=167
D - //PAC7PQ   DD DUMMY,DCB=BLKSIZE=165
```

CSES - Support of Pactables files

```
step PTUCSS
I - //          DCB=(&DSCB,RECFM=FB,BLKSIZE=6179,LRECL=167)
D - //          DCB=(&DSCB,RECFM=FB,BLKSIZE=6105,LRECL=165)

I - //PAC7TC   DD DSN=&DSNTC0,DISP=SHR
I - //PAC7CT   DD DSN=&DSNTC1,
I - //          DISP=(,CATLG,DELETE),
I - //          UNIT=&UNITS,VOL=&VOLS,
I - //          SPACE=&SPATC,
I - //          DCB=(&DSCB,RECFM=FB,BLKSIZE=10614,LRECL=1061)
```

ESES :

```
step PTUESS
I - //PAC7AN   DD DSN=&INDUV..&ROOT.&FILE.AN,DISP=SHR
I - //PAC7AR   DD DSN=&INDUV..&ROOT.&FILE.AR,DISP=SHR

D - //PAC7PC   DD DSN=&INDUN..&ROOT.&FILE.PC(0),DISP=SHR
```

GETA : compatibility with 1.2 tables

Addition of step PACT45

GETD : compatibility with 1.2 tables

Addition of step PACT45

GPRx :

```
I - //PAC EXEC PGM=PACB,REGION=0K
D - //PAC EXEC PGM=PACB&LNG,REGION=0K

I - //PAC7G6 DD DSN=&&PAC7G6,DISP=(,PASS),UNIT=&UWK,
I - // DCB=(RECFM=FB,LRECL=345,BLKSIZE=13800),
I - // SPACE=&SPAMAN
```

HIPE :

```
I - // DCB=(LRECL=167,RECFM=FB,BLKSIZE=6179)
D - // DCB=(LRECL=165,RECFM=FB,BLKSIZE=6105)
```

PQCE - Replacement of step PTUUSE with PACX

```
I - //MAXKEY EXEC PGM=IDCAMS
I - //PACX EXEC PGM=PACX,REGION=0K
D - //PTUUSE EXEC PGM=PTUUSE

I - //PTUQ10 EXEC PGM=PTUQ10,COND=(0,NE,PACX)
D - //PTUQ10 EXEC PGM=PTUQ10,COND=(0,NE,PTUUSE)

I - //PTUQ15 EXEC PGM=PTUQ15,COND=((0,NE,PACX),...)
D - //PTUQ15 EXEC PGM=PTUQ15,COND=((0,NE,PTUUSE),...)
```

REOR :

```
I -//PTU208 EXEC PGM=PTU208,COND=((0,NE,PTU200),(0,NE, SORTQS)
D -//PTU208 EXEC PGM=PTU208,COND=(0,NE,PTU200)

I -//PTU210 EXEC PGM=PTU210,COND=((0,NE,PTU200),(0,NE, SORTQS)
D -//PTU210 EXEC PGM=PTU210,COND=(0,NE,PTU200)

I -//PTU220 EXEC PGM=PTU220,REGION=4096K,
I -// COND=((0,NE,PTU200),(0,NE, SORTQS),(0,NE,PTU210))
D -//PTU220 EXEC PGM=PTU220,
D -// COND=((0,NE,PTU200),(0,NE,PTU210)),REGION=20

I -//SORTAN EXEC PGM= SORT,
I -// COND=((0,NE,PTU200),(0,NE, SORTQS),(0,NE,PTU210))
D -//SORTAN EXEC PGM= SORT,COND=((0,NE,PTU200),(0,NE,PTU210)

I -//PTU240 EXEC PGM=PTU240,
I -// COND=((0,NE,PTU200),(0,NE, SORTQS),...,(0, SORTAN))
D -//PTU240 EXEC PGM=PTU240,COND=((0,NE,PTU200),...)
```

REST and RESY:

```
step PTU420
I - //PAC7JO DD DSN=&ARCHJRNL,DISP=OLD,DCB=BLKSIZE=6179
D - //PAC7JO DD DSN=&ARCHJRNL,DISP=OLD,DCB=BLKSIZE=6105

step PACA15
I - //          DCB=(RECFM=FB,LRECL=167,BLKSIZE=6179)
D - //          DCB=(RECFM=FB,LRECL=165,BLKSIZE=6105)
```

UPDP and UPDT:

```
step PACA05 or PAF900
I - //          DCB=(RECFM=FB,LRECL=167,BLKSIZE=6179)
D - //          DCB=(RECFM=FB,LRECL=165,BLKSIZE=6105)

step PACA15
I - //          DCB=(RECFM=FB,LRECL=167,BLKSIZE=6179)
D - //          DCB=(RECFM=FB,LRECL=165,BLKSIZE=6105)
```

LIST OF NEW PROCEDURES

! Proc.!	! Comments	! Rel.!
! GET0 !	! Compatibility with Pactables 1.2	! 2.0 !
! GET1 !	! '' ''	! ' ' !
! GET2 !	! '' ''	! ' ' !
! IANA !	! Module Pac/Impact	! 2.0 !
! IGRA !	! '' ''	! 2.5 !
! INFP !	! '' ''	! 2.0 !
! INFQ !	! '' ''	! ' ' !
! IPEP !	! '' ''	! ' ' !
! IPFQ !	! '' ''	! ' ' !
! IPIA !	! '' ''	! ' ' !
! ISEP !	! '' ''	! ' ' !
! ISOS !	! '' ''	! ' ' !
! PACX !	! Deep extractors	! 2.0 !
! PJ16 !	! Retrieval of 1.6 Journal	! 2.0 !
! PP16 !	! Retrieval of 1.6 PEI files	! ' ' !
! RPPG !	! Retrieval of 2.0 PG file	! 2.5 !
! PRGS !	! Printout of master-path file	! 2.0 !
! TCCI !	! VA Pac-TeamConnection Bridge	! 2.0 !
! TCGP !	! '' ''	! ' ' !
! TCLS !	! '' ''	! ' ' !
! TCME !	! '' ''	! ' ' !
! TRDU !	! Pac/Transfer	! 2.0 !
! TRJC !	! ''	! ' ' !
! TRPF !	! ''	! ' ' !
! TRRP !	! ''	! ' ' !
! TRRT !	! ''	! ' ' !
! TRUP !	! ''	! ' ' !
! UXSR !	! Sub-network extraction	! 2.0 !
! VDWN !	! VA Pac-VA Smalltalk Bridge	! 2.0 !
! VPUR !	! '' ''	! ' ' !
! VUP1 !	! '' ''	! ' ' !
! VUP2 !	! '' ''	! ' ' !

LIST OF PROCEDURES DELETED SINCE RELEASE 2.0

! Proc.!	! Program(s)	! Comments
! EXLI !	! PTU800	! Replaced with procedure PACX
! EXTR !	! PACS10	! " "
! EXPJ !	! PTU600 PTU610	! " "
! EXPU !	! PTU880 PTU885	! " "
! RMEN !	! PTU860 PTU865	! " "
! " !	! PTU866	!
! EXUE !	! PTUUSE	! " "
! EXSN !	! PTU840	! " "
! UPAE !	! PTUMAE	! Integrated in procedure PARM
! CSEP !		! Integrated in procedure CSES
! TRDQ !	! PTUDQ2	! Not maintained
! ECSP !	! PTUCSP	! Not maintained
! DCOB !	! PTUCR1 PTUCR2	! Not maintained
! " !	! PTUD10 PTUD20	!
! " !	! PTUD30	!
! Retrieval procedures (If necessary, contact the Support.)!		
! RP6A !	! PTU930	! Retrieval PAC700
! RP6B !		! " "
! EX62 !	! PTU830	! " "
! PC73 !	! PTURPC	! Retrieval 7.3
! PE73 !	! PTU902	! " "
! PJ73 !	! PTU916	! " "
! PP73 !	! PACR02	! " "
! PC80 !	! REPGDP	! Retrieval 8.0
! PE80 !		! " "
! PJ80 !	! PTU917	! " "
! PCYS !	! REPYSM	! Retrieval YSM methodology
! PJYS !	! REJYSM	! " "
! RTYS !	! REPAFL	! " "
! TRUV !	! PTU890	! Retrieval U manuals into V manuals!