

VisualAge Pacbase



Installation Guide OS/390 CICS Server & Workstation Components

Version 3.0



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Note

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Contents

Notices	v	Installation of the Development Database	47
Trademarks	vii	CICS Update	47
Chapter 1. Foreword	1	Allocation and Loading of Database Parameters	49
Introduction	1	Initialization of Generation Data Groups	52
VisualAge Pacbase Architecture	1	Loading of the Test Database	55
Contents of Supply	2	Loading of the Development Model	56
Bibliography	2	Initialization of the QJ archive file.	56
Chapter 2. Prerequisites	3	Complement - Pac/Impact	57
Prerequisites for Server Environment	3	Chapter 4. Installation/Re-installation of Client Components	61
Hardware and Software	3	Things to Know Before Installing	61
Disk Space	3	Fundamentals of VA Pac Client-Server Communication	62
Prerequisites for Client Environment	3	Installation Startup	64
Hardware	3	Administrator & Developer workbench	64
Disk Space	4	eBusiness Tools	67
Software	4	VisualAge Pacbase WorkStation	68
Communication	4	Pacbase Web Connection	72
Chapter 3. Installation of Server Environment	5	Middleware	74
Parameterization	5	Additional Information	76
Installation Preparation	5	How to Configure the MVS CICS/IMS CPI-C Protocol	76
JCL Installation	8	Editing Communication Parameters	77
JCL List	11	The bases.ini File	77
JCL Parameters	14	The vaplocat.ini File	79
JCL Before/After Lines	16	Uninstalling Client Components	81
System Installation	17	Chapter 5. Tests	83
CICS CSD Update	17	List of Utilities	83
Allocation and Loading of System Parameters	24	Installation Tests	83
Initialization	33	Generation-Print TP and Batch Update Tests	83
Renaming the Exit users batch programs	36	Administration Database Procedures Tests	84
Loading of Procedures	37	Development Database Procedures Tests	84
Loading of Generation Skeleton Files	40	Extraction-Utility Tests	85
Loading of Error messages and on-line help	41	Chapter 6. Re-installation of Server	87
Installation of the Administration Database	42	Chapter 7. Retrieval	91
Users File Initialization	42	Retrieval of VisualAge Pacbase 2.0 and 2.5	91
Initialization of Generation Data Groups	43	Operations to be Performed	91
Loading of the Administration Database	45	Retrieval of User Parameters (PE25)	93
Loading of the Administration Model	45		
List of components with their date of creation	46		

PE25 - Introduction	93	MB30 - Execution JCL	142
PE25 - Input / Processing / Results	93	Retrieval of GY Transactions (GY30)	143
PE25 - Description of Steps	94	GY30 - Introduction	143
PE25 - Execution JCL	96	GY30 - Description of Steps	144
Retrieval of the Development Database (PC25)	99	GY30 - Execution JCL	144
PC25 - Introduction	99	Procedures - Summary Table of Changes	145
PC25 - Notes on Data Retrieval	99	Chapter 8. Components	149
PC25 - Input / Processing / Results	101	Server Environment Components	149
PC25 - Description of Steps	101	Introduction	149
PC25 - Execution JCL	105	Security Systems Interface Extension	149
Generation-Print Commands Retrieval (PG20)	109	On-Line Documentation	150
PG20 - Introduction	109	Generation Skeletons.	150
PG20 - Input / Processing / Results	110	Parameters	152
PG20 - Description of Steps	110	System Parameter Libraries	152
PG20 - Execution JCL	114	Batch Procedure JCL Libraries	155
Generation-Print Commands Retrieval (PG25)	118	Administration Database	155
PG25 - Introduction	118	Administration Database Files	155
PG25 - Input / Processing / Results	119	Administration Database Backup.	157
PG25 - Description of Steps	119	Development Database	158
PG25 - Execution JCL	122	Development Database Files	158
PEI Retrieval (PP25)	126	Development Database Parameter Library	159
PP25 - Introduction	126	Development Database Backup Files	160
PP25 - Input / Processing / Results.	127	Modules - Specific Files.	161
PP25 - Description of Steps	127	Pac/Impact	161
PP25 - Execution JCL	129	DSMS.	162
Retrieval of Pac/Transfer Parameters (UV25)	132	PAF	163
UV25 - Introduction	132	Complementary Libraries and Files	164
UV25 - Input / Processing / Results	132	Chapter 9. Appendix	165
UV25 - Description of Steps	132	Installation of the Administration Database	
UV25 - Execution JCL	134	Model	165
Retrieval of MB Transactions (MB25)	137	VING - Introduction	165
MB25 - Introduction	137	VING - Input / Processing / Results	165
MB25 - Description of Steps	137	VING - Description of Steps	166
MB25 - Execution JCL	138	VING - Execution JCL	167
Retrieval of GY Transactions (GY25)	139	Installation of the Development Database	
GY25 - Introduction	139	Model	170
GY25 - Description of Steps	139	VINS - Introduction	170
GY25 - Execution JCL	140	VINS - Input / Processing / Results	171
Retrieval of MB Transactions (MB30)	141	VINS - Description of Steps	172
MB30 - Introduction	141	VINS - Execution JCL	174
MB30 - Description of Steps	141		

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Chapter 1. Foreword

Introduction

The purpose of this manual is to guide the administrator through the installation of the VisualAge Pacbase:

- Server environment,
- Client environment,
- Communication.

Once the installation is completed, it is recommended to run the set of tests provided on the installation media.

You will also find in this manual a description of the operations to be performed for the installation of correction versions.

VisualAge Pacbase Architecture

VisualAge Pacbase is used for the design, development and maintenance of graphical (GUI), textual (TUI) or web eBusiness applications, run in on-line or batch mode.

VisualAge Pacbase consists of:

- A server environment (TUI),
- A client environment (GUI).

These two environments communicate through an encapsulated middleware provided by IBM.

NOTE: The textual mode remains available for some functionalities.

You will find a detailed description of Server Components in chapter 'The Components' in this manual.

THE SERVER ENVIRONMENT

It consists of the following components:

- the system elements: programs, files (on-line help included), and parameters,
- the administrator's Database that contains user parameters and other parameters,

- one or more development Database(s).

THE CLIENT ENVIRONMENT

It consists of the following components:

- Administrator workbench,
- Developer workbench which includes the Batch and eBusiness modules (these modules can be installed independently),
- VisualAge Pacbase WorkStation,
- eBusiness tools,
- Pacbase Web Connection.

The communication functions enable the Server and Client environments to communicate via the main communication protocols on the market.

Contents of Supply

The contents of the supply vary according to the terms of your order:

- Installation Guide,
- CD-Rom or cartridge, depending on the environment, to install VA Pac servers,
- Workstation Components CD-Rom,
- VA Pac documentation CD-Rom.

Bibliography

Refer to the Administrator's Procedures manual for information on the procedures used by the Administrator in the following contexts:

- Databases management,
- Versions management,
- Management utilities.

For information on the management of user parameters, (update of access keys, user codes and access authorizations), refer to the Administrator workbench online help.

For information on the communication between the Security System possibly installed on site and VisualAge Pacbase (authentication controls), refer to the 'Security System Interfaces' manual.

Chapter 2. Prerequisites

Prerequisites for Server Environment

Hardware and Software

Processor: IBM S/390 MVS/ESA

Installation media: DAT 4mm Drive or cartridge 3480

Monitor: CICS/ESA Version 4.1 or TS

COBOL: 'COBOL FOR OS/390 & VM 2.1.1'

Disk Space

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

The following table indicates approximatively the disk space necessary (in millions of bytes) to install the servers:

Disk space for the installation	Total	VSAM	Non VSAM
Total installation	170	105	65
Total System	120	75	45
Total user files for installation tests	50	30	20

Prerequisites for Client Environment

Hardware

The hardware characteristics necessary to install VisualAge Pacbase client components are the following:

- Processor: Intel Pentium III 450 Mhz minimum or compatible processor.
- Monitor: graphic monitor (800x600) VGA or higher resolution (XGA or SVGA).
- CD-Rom drive.
- Card: adapted to the site network.
- Memory (RAM): 128 Mb (256 Mb advised).
- Software: Microsoft Windows Script Host (version 5.1 and onwards).

Disk Space

Required disk space:

- 58 Mb for the Administrator & Developer workbench.
- 15 Mb for the VisualAge Pacbase WorkStation.

Software

The VisualAge Pacbase client components require that a 32 bytes-Windows be installed on your workstation, i.e.:

- Windows 98,
- Windows/NT version 4.0 with Service Pack 3,
- Windows 2000.

See also chapter "Installation of Client Components", subchapter "Things to Know Before Installing".

Communication

To enable the communication between the workstation components and the servers in a MVS/CICS, environment, the communication protocol must be: CPI-C et TCP-IP Socket.

Chapter 3. Installation of Server Environment

Parameterization

Installation Preparation

The preparation to the installation process consists of three phases:

- Receiving the cartridge with the SMP/E (System Modification Program/Extended) utility in dedicated PDS.
This stage must be performed by the system staff who are accustomed to installing IBM products with SMP/E.
- Allocation of a PDS file meant to save all the installation and operation JCL.
- Execution of the installation JCL from the PDS members created during the first phase.

FIRST PHASE

You will find details in the document 'Program Directory for VA Pac' specific to SMP/E.

This stage consists of the following steps:

- Downloading of JCL examples via IEBCOPY
- Setting up of the SMP/E environment if required
 - Definition of SMP/E cluster libraries (SMPDFCSI)
 - Initialization of SMP/E libraries (SMPICSI)
 - Allocation of SMP/E workfiles (SMPALLOC)
 - FMID assignment (SMPDEFZ)
 - Input creation: DDDEF technical files (SMPDDEF)
- Cartridge receipt
 - Definition of 'Target field' and 'distribution field' (BVPDDEF) files
 - Assignment of files 'Target field' and 'Distribution field' (BVPALLOC)
 - Execution of RECEIVE (BVPRECV)
 - Execution of APPLY (BVPAPPLY)
 - Execution of ACCEPT (BVPACCPT)

Once this phase has been executed, all components required at installation are to be found in the following PDS, 'hlq' indicating the common prefix of delivered elements (High-Level Qualifier)

- hlq.SBVPINST: all the files with a length of 80 including:
 - The error messages file,
 - The initial installation JCL,
 - A file including the installation and operation JCL's and procedures,
- hlq.SBVPF2: PC and PE initialization files,
- hlq.SBVPMBR8: batch load-modules,
- hlq.SBVPMTR8: on-line load-modules,
- hlq.SBVPF5: SG SN SP SR SS skeletons,
- hlq.SBVPF6: SC skeleton
- hlq.SBVPF7: SF skeleton
- hlq.SBVPF8: administration model and development model update file,
- hlq.SBVPSRC: source files with a length of 80
- hlq.SBVPDIC: Dictionary complementary file

SECOND PHASE

This phase is optional but it is recommended to execute it. It involves allocating a PDS file with the following characteristics:

- Lrecl=80
- Size: around 100 disc track 3,390, 30 pads directory.

THIRD PHASE

The third phase involves copying the 'hlq.SBVPINST(BVPINIT)' JCL in the PDS mentioned in the second phase, modifying its parameters to match the constraints of the site and executing it so as to obtain a complete installation and operating JCL.

The BVPINIT JCL executes the BVPMMJCL program loaded in the hlq.SBVPMBR8 PDS.

It must be completed as follows:

- Fill in '&hlq' with the 'hlq' parameter value used in the first phase SMP/E.
- In the '//SYSUT2 DD DSN=' field, enter the name of the file in which the complete JCL is to be saved.
This file can be either a PDS member initially created to save all the JCL's, or a sequential file selected by the user.
- Enter the parameters (see details in the next chapter).

The BVPMMJCL program execution must be saved: it can be used for a further re-installation.

EXECUTION JCL

```

//VAPACBAS JOB (---),'JCL INSTALLATION',CLASS=D,MSGCLASS=A
//MM1JCL EXEC PGM=BVPMMJCL
//STEPLIB DD DISP=SHR,DSN=&HLQ.SBVPMBR8
// DD DISP=SHR,DSN=----.----.---- LE LIBRARY
//SYSOUT DD SYSOUT=A
//SYSUT1 DD DSN=&HLQ.SBVPINST(BVPTOTAL),DISP=SHR
//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 OF INSTALLATION JCL THROUGH 'BVPMMJCL'
//* -----
//*
//* MODIFY THE LIST OF THE SUPPLIED COMMANDS 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 ----- PDS MEMBER OR SEQUENTIAL FILE RECEIVING
//* THE INSTALLATION JCL (LRECL=80)
//SYSIN DD *
===PRM PRFJ=BVPJ .JOB NAMES PREFIXES (MAX OF 5 CHARACTERS)
===PRM CCPT=<> .JOB ACCOUNTING CODES (JOB CARDS)
===PRM CLASSJ=1 .JOB EXECUTION CLASS (JOB CARDS)
===PRM MSGCL=A .JCL OUTPUT CLASS (MSGCLASS)
===PRM INDSV='EXP.BVP3V' .SYSTEM VSAM FILES INDEX
===PRM INDSN='EXP.BVP3N' .SYSTEM NON VSAM FILES INDEX
===PRM INDUV='UTI.BVP3V' .USER VSAM FILES INDEX
===PRM INDUN='UTI.BVP3N' .USER NON VSAM FILES INDEX
===PRM BASE='BASE' .NAME OF DATABASE DEVELOPMENT (4 CHAR)
===PRM OUT=H .JOB SYSOUT CLASS
===PRM UWK=SYSDA .WORK FILES UNIT
===PRM UNITSN=SYSDA .NON VSAM SYSTEM FILES UNIT
===PRM UNITUN=SYSDA .NON VSAM USER FILES UNIT
===PRM VOLSN= .SYSTEM NON VSAM FILES VOL=SER=
===PRM VOLSV= .SYSTEM VSAM FILES VOLUME
===PRM VOLUN= .USER NON VSAM FILES VOL=SER
===PRM VOLUV= .USER VSAM FILES VOLUME
===PRM VCAT= .USER FILES VSAM CATALOG
===PRM SCAT= .SYSTEM FILES VSAM CATALOG
===PRM LSK='A' .LANGAGE OF SKELETON FILES
===PRM DSCB='BVP.DSCB' .DSCB MODEL FILE DSNAME
===PRM BIBP='SYS1.PROCLIB' .PROCEDURE LIBRARY
===PRM HLQ='HLQ' .HEAD LEVEL QUALIFIER OF LOAD MODULES
===PRM BIBT='SYS1.SORTLIB' .SORT LIBRARY
===PRM BCOB='SYS1.SCEERUN' .COBOL ROUTINE LIBRARY
===PRM CSDL='CICS410.SDFHLOAD' .DFHCSDUP STEPLIB DSN
===PRM DFHCSD='BVP.DFHCSO' .CSD DSN
===PRM GROUF='BVPGR' .'GROUP' NAME FOR FILE

```

```

===PRM GROUP='BVPGR'           .'GROUP' NAME FOR PROGRAM
===PRM GROUT='BVPGR'          .'GROUP' NAME FOR TRANSACTION
===PRM LIST=<>                 .'LIST' NAME
===PRM TABTDF=<>              .DSN OF TABLES DESCRIPTION FILE
===PRM DSMS=NULLFILE          .DSN OF PRODUCT ELEMENTS (DC)
===PRM CSOC='DBSS'            .TRANSACTION CODE "SOCKET" (4 CAR)
===PRM CPIC='DBST'            .TRANSACTION CODE "CPIC" (4 CAR)
===BEGMOD
./ ADD NAME=$ZMODUL
/*
//

```

JCL Installation

The BVPMMJCL module reads the JCL skeleton file 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,
- Add lines before/or after the JCL modules to separate them.

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

USER INPUT

Command	Parameters	Comments
===SELM	mmmm1 mmmm2 ... (1)	Selection of JCL modules
===PRM	PPPP=pppp (2)	Parameter
===BEGMOD		Insertion of lines at the beginning of module
....1		Lines to be added before each module
....n		
===ENDMOD		Insertion of lines at the end of module
....1		Lines to be added after each module
....n		

(1) mmmm1 = name of JCL module

mmmm2 = name of JCL module...

(2) PPPP = parameter name

pppp = parameter value

NOTES

Lines ===PRM

You can add a comment but it must be preceded by a period and it should not exceed column 72.

The default values are only examples. You must therefore enter values matching with the choices on site.

Lines ===SELM

No particular module is selected. They are all selected.

Lines ===BEGMOD

./ ADD NAME=\$MODULE

As a result, a line is inserted before each JCL module, in the form:

./ ADD NAME=<JCL-module>

RESULT: COMPLETE JCL

The file resulting in SYSUT2 contains all the installation and operation JCL. This file must be run in an editor to enable the installation process.

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*/
- In the JCL STEPCAT's
- In the procedure parameters

When these parameters are not required on the site, the resulting JCL can remain as it is.

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

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

CAUTION: SMS

- 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 JCL's before the JCL splitting operation.

2. JCL SPLITTING

Before 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: IEUBUPDTE.

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

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

REPORT

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

Note: Since the JCL skeleton parameters are in the \$xxxx format, during execution, if BVPMMJCL 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 '\$' character in the flow processed by BVPMMJCL and which is NOT a parameter.

JCL List

TABLE OF INSTALLATION JCLS

Member	Contents	Procedure
	SYSTEM AND ADMINISTRATION DATABASE INSTALLATION	
D00CSD	CICS update: components	
D01ALLOC	Allocation of parameter PDS's	
D02CPAR	Loading of common parameters	
D03DEFIN	VSAM common file definition	
D03GDG	Definition of GDG for parameter backup	
D03INI	Initialization of system files	
D04MBR	Renaming of load modules batch Exit users	
D05IPROC	Proclib allocation (optional)	
D05PROC	Loading of batch procedures in the Proclib	
D06SKEL	Loading of skeleton files	
D07AE0	Loading of error messages and documentation	INAE
D08INGU	Initialization of users code file	INGU
D08INIAD	GDG definition and initialization	
D08RSAD	Backup of administration Database	RSAD
D08XMET	Installation of administration Model	VING
D99INSL	List of components' dates	INSL
	INSTALLATION OF DEVELOPMENT DATABASE	
I00CSD	CICS update: components	
I01SY	Allocation of parameter PDS's	
I02SY	Loading of parameters	
I03DEF	VSAM files definition	
I03INI	GDG definition and initialization	
I04REST	Backup of tests database	REST
I05META	Installation of development Model	VINS
I08INQJ	Initialization of archival journal file VisualAge Pacbase interface and configuration management	INQJ
I20GDGI	Initialization of Pac/Impact GDG	

TABLE OF OPERATION TESTS JCL

Member	Contents	Procedure
	STANDARD PROCEDURES	
JCLACTI	Activity follow-up	ACTI
JCLARAD	Archival of the administration database journal	ARAD
JCLARCH	Archival of the development database journal	ARCH
JCLCPSN	Comparison between sub-networks	PACX
JCLCSES	Compression of session number	CSES
JCLESES	Matching session numbers	ESES
JCLEMLD	Loading of error messages related to generated applications	EMLD
JCLEMUP	Update of error messages related to generated applications	EMUP
JCLEXLI	Extraction of libraries	PACX
JCLEXPJ	Extraction of transactions from journal	PACX
JCLEXTA	Extraction of an Entity	PACX
JCLEXTR	Extraction of an Entity	PACX
JCLEXUE	Extraction of a User Entity	PACX
JCLEXPU	Extraction for purge	PACX
JCLRMEN	Extraction to move an entity to a higher library, replace, rename an entity	PACX
JCLGPRP	Generation-print + PPAF	GPRP
JCLGPRT	Generation-print	GPRT
JCLGPRU	Generation-print source + loading in source library	GPRU
JCLMLIB	Library management	PACS
JCLPQCA	Quality control	PQCA
JCLPQCE	Quality control extraction	PQCE
JCLPRGS	Master outline file	PRGS
JCLREOR	Reorganization of development Database	REOR
JCLREST	Backup of development Database	REST
JCLRESY	Complement system backup	RESY
JCLROAD	Reorganization of administration Database	ROAD
JCLRSAD	Backup of administration Database	RSAD
JCLSADM	SSADM method integrity control	SADM

Member	Contents	Procedure
JCLSASN	Backup of sub-networks	PACS
JCLSASY	Complement system backup	SASY
JCLSAVE	Backup of development Database	PACS
JCLSTOP	Optimization of multi-number data	STOP
JCLSVAD	Backup of administration Database	PACG
JCLUPDP	Update of PAF batch format	UPDP
JCLUPDT	Update of batch	UPDT
JCLXSR	Extraction of libraries	PACS
JCLXPAF	Validation of extraction master path	XPAF
JCLXPDM	Validation of master outline	XPDM
JCLYSMC	Yourdon method integrity control	YSMC
	STANDARD BRIDGE MODULE	
JCLCHPM	Integrity Control of Events/Elements	CHPM
JCLCPM	Comparision with extracted files	CPM
JCLEXPM	Extraction of Database Data	EXPM
JCLHIPM	Database Automatic Freeze	HIPM
JCLSIPM	Generation simulation	SIPM
	PACTABLES MODULE	
JCLGETA	Generation of tables descriptions	GETA
JCLGETD	Generation of tables descriptions	GETD
JCLGETI	Initialization of tables	GETI
	PAC/TRANSFER MODULE	
JCLTRDU	Production of DSMS transactions	TRDU
JCLTRJC	Compression of journal file	TRJC
JCLTRPF	Generation of transfer transactions	TRPF
JCLTRRP	Extraction of journal	TRRP
JCLTRUP	Update of Pac/Transfer parameters	TRUP
JCLTRED	Printing of Pac/Transfer parameters	TRED
	PAC/IMPACT MODULE	
JCLIANA	Impact analysis	IANA
JCLIGRA	Splitting up into group areas	IGRA
JCLIMFH	Merging FH creation FR	IMFH
JCLINFP	Initialization of FP	INFP

Member	Contents	Procedure
JCLINFQ	Initialization of FQ	INFQ
JCLIPEP	Print search criteria	IPEP
JCLIPFQ	Print of FQ file	IPFQ
JCLPIA	Print of results	IPIA
JCLISEP	Selection of inputs	ISEP
JCLISOS	Selection of strings, operators	ISOS
	RETRIEVAL OF FORMER RELEASES	
RGY250	Retrieval of GY file from the 2.5	GY25
RMB250	Retrieval of MB file from the 2.5	MB25
RGY300	Retrieval of GY file from 3.0 to 2.5	GY30
RMB300	Retrieval of MB file from 3.0 to 2.5	MB30
RPC250	Retrieval of PC file from the 2.5	PC25
RPE250	Retrieval of PE file from the 2.5	PE25
RPG200	Retrieval of PG file from the 2.0	PG20
RPG250	Retrieval of PG file from the 2.5	PG25
RPP250	PEI retrieval from 2.5 on	PP25
RUV250	Retrieval of UV file from Pac/Transfer	UV25
	UTILITIES	
JCLPURGE	Purge of LB PA WS work files	
JCLSTAT	Generation statistics file on base	STAT
	'P' lines extraction with 'UNS' operator	UTU1
	'P' lines update with 'UNS' operator	UTU2

JCL Parameters

SYNTAX

===PRM PPPP=pppp .Comments

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

Note: When the default or '<>' values are filled in, the parameter must be set.

TABLE OF PARAMETERS

Parameter	Meaning	Default
	JOB lines:	
PRFJ	Jobname prefix (maximum: 5 characters)	BVPJ
CCPT	Job accounting code	<>
CLASSJ	Job execution class	1
MSGCL	JCL output class	A
INDSV	VSAM system (maximum: 24 characters)	'EXP.BVP3V'
INDSN	Non-VSAM system (SAM,PDS) (maximum: 24 characters)	'EXP.BVP3N'
INDUV	VSAM user (maximum: 24 characters)	'UTI.BVP3V'
INDUN	Non VSAM user (SAM) (Maximum: 24 characters)	'UTI.BVP3N'
BASE	Development database code (it is automatically loaded in the development transaction code field)	BASE
OUT	SYSOUT print class	H
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 files	
VOLSV	VOL=SER of VSAM system files	
VOLUN	VOL=SER of NON-VSAM user file	
VOLUV	VOL=SER of VSAM user files	
VCAT	VSAM catalog of the development Database (user files)	
SCAT	VSAM system catalog (System files)	
LSK	Skeleton language	A
DSCB	DSNAME of DSCB model file used for files at generation	'BVP.DSCB'
BIBP	DSNAME of the procedure library	'SYS1.PROCLIB'
HLQ	Prefix of the batch and on-line load-module library	'HLQ'
BIBT	DSNAME of sort library (SORTLIB)	'SYS1.SORTLIB'
BCOB	DSNAME of COBOL routine library	'SYS1.SCEERUN'
	Update of CICS CDS	
CSDL	DFHCSDUP STEPLIB DSN	'CICS410.SDFHLOAD'

Parameter	Meaning	Default
DFHCSD	CSD name for update	'BVP.DFHCSD'
	CSD input group	
GROUP	Programs	BVPGR
GROUF	Files	BVPGR
GROUT	Transactions	BVPGR
LIST	List containing CICS groups	<>
	Pactables	
TABTDF	Table description file DSN	TD300
	DSMS module	
DSMS	Development database-element file name	NULLFILE
CSOC	SOCKET transaction code	DBSS
CPIC	CPIC transaction code	DBST

(1) The files DSN should be replaced by those that are installed on site only if the Tables or DSMS modules are installed or if the default name does not fit.

(2) These transaction codes are to be used only for the development and administration Databases. One of them is used to access to the communication monitor for a TCP-IP Sockets protocol, the other is used to access to the communication monitor for a CPI-C protocol. This code must be indicated in the installation parameters of the client environment.

JCL Before/After Lines

LINES BEFORE AND AFTER JCL MODULES

===BEGMOD1)) Lines to be inserted before each JCL modulen)

===ENDMOD1)) Lines to be inserted after each JCL modulen)

Lines may be inserted as input in the BVPMMJCL 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 BVPMLLCL 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.

System Installation

CICS CSD Update

SYSTEM COMPONENTS

D00CSD MODULE: '\$prfj.D0' JOB

BVP: SMP/E root, prefix of the administration Database, batch and on-line load-modules and procedures files.

Files	Comments
BVPAE	Error messages - on-line documentation
BVPGU	User codes / keywords
BVPGN	Administration Database, index file
BVPGR	Administration Database, data file
BVPGJ	Administration Database, transaction file
BVPGY	Administration Database, random data
BVPLB	Job follow-up file
BVPPA	PAF working file
BVPTR	A&D workbench working file
BVPWS	A&D workbench working file

PROGRAMS

BVPQnnn, BVPPnnn , BVPRnnn, BVPSnnn and a few specific programs prefixed with BVP.

See chapter 'Components', subchapter 'Administration Environment', section 'On-line Programs Library'.

NOTE: The 'Dynamic Backout' option (JNLSYNCSWrite and RECOVery) is required for GN, GR, GJ, and GY files.

ADDITION OF PROGRAMS UNDER CICS

It is required to add on "DFHRPL" the DD line of VA Pac on-line program library.

EXECUTION JCL

```
//$PRFJ.D0 JOB ($CCPT),'SYSTEM DFHCSDUP',CLASS=$CLASSJ,  
//      MSGCLASS=$MSGCL  
//*****
```

```

//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - CICSCSD *
//*          CICS: CSD BATCH UPDATE SYSTEM *
//*****
//DFHCSDUP EXEC PGM=DFHCSDUP
//STEPLIB DD DSN=$CSDL,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//DFHCSD DD DSN=$DFHCSD,DISP=SHR
//SYSIN DD *
*****
*          COMMON FILES *
*****
DEFINE FILE(BVPAE) GROUP($GROUF)
DESCRIPTION(HELP FILE)
    DSNAME($INDSV..BVPAE)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3) INDEXBUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(NO)
    RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPPA) GROUP($GROUF)
DESCRIPTION(PAF FILE)
    DSNAME($INDSV..BVPPA)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2) INDEXBUFFERS(1)
    RECORDFORMAT(V)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPGN) GROUP($GROUF)
DESCRIPTION(INDEX ADMINISTRATION DATABASE)
    DSNAME($INDSV..BVPGN)
    STRINGS(2)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3) INDEXBUFFERS(2)
    RECORDFORMAT(F)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPGR) GROUP($GROUF)
DESCRIPTION(DATA ADMINISTRATION DATABASE)
    DSNAME($INDSV..BVPGR)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(3)
    RECORDFORMAT(V)
    ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
    RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPGY) GROUP($GROUF)
DESCRIPTION(EXTEND ADMINISTRATION DATABASE)
    DSNAME($INDSV..BVPGY)
    STRINGS(1)
    STATUS (ENABLED) OPENTIME(STARTUP)
    DATABUFFERS(2)

```

```

RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPGJ) GROUP($GROUF)
DESCRIPTION(JOURNAL ADMINISTRATION DATABASE)
DSNAME($INDSV..BVPGJ)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(2)
RECORDFORMAT(V)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPGU) GROUP($GROUF)
DESCRIPTION(USER ADMINISTRATION DATABASE)
DSNAME($INDSV..BVPGU)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3) INDEXBUFFERS(2)
RECORDFORMAT(V)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPLB) GROUP($GROUF)
DESCRIPTION(FILE LB)
DSNAME($INDSV..BVPLB)
STRINGS(2)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3) INDEXBUFFERS(2)
RECORDFORMAT(F)
ADD(NO) BROWSE(YES) DELETE(NO) READ(YES) UPDATE(NO)
RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPTR) GROUP($GROUF)
DESCRIPTION(FILE TR)
DSNAME($INDSV..BVPTR)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE(BVPWS) GROUP($GROUF)
DESCRIPTION(FILE WS)
DSNAME($INDSV..BVPWS)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3) INDEXBUFFERS(2)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
*****
DEFINE PROGRAM(BVPCICSE) GROUP($GROUP)
EXECKEY(CICS)
DEFINE PROGRAM(BVPFANM) GROUP($GROUP)
DEFINE PROGRAM(BVPFBAG) GROUP($GROUP)
DEFINE PROGRAM(BVPFBIB) GROUP($GROUP)
DEFINE PROGRAM(BVPFCHK) GROUP($GROUP)

```

```
DEFINE PROGRAM(BVPFCTL) GROUP($GROUP)
DEFINE PROGRAM(BVPFDBD) GROUP($GROUP)
DEFINE PROGRAM(BVPFECR) GROUP($GROUP)
DEFINE PROGRAM(BVPFENU) GROUP($GROUP)
DEFINE PROGRAM(BVPFFOG) GROUP($GROUP)
DEFINE PROGRAM(BVPFMCL) GROUP($GROUP)
DEFINE PROGRAM(BVPFFGM) GROUP($GROUP)
DEFINE PROGRAM(BVPFRUB) GROUP($GROUP)
DEFINE PROGRAM(BVPFRWS) GROUP($GROUP)
DEFINE PROGRAM(BVPFSD0) GROUP($GROUP)
DEFINE PROGRAM(BVPFTER) GROUP($GROUP)
DEFINE PROGRAM(BVPFTRA) GROUP($GROUP)
DEFINE PROGRAM(BVPFTXT) GROUP($GROUP)
DEFINE PROGRAM(BVPFVER) GROUP($GROUP)
DEFINE PROGRAM(BVPF000) GROUP($GROUP)
DEFINE PROGRAM(BVPQA00) GROUP($GROUP)
DEFINE PROGRAM(BVPQB00) GROUP($GROUP)
DEFINE PROGRAM(BVPQC00) GROUP($GROUP)
DEFINE PROGRAM(BVPQC01) GROUP($GROUP)
DEFINE PROGRAM(BVPQC50) GROUP($GROUP)
DEFINE PROGRAM(BVPQD00) GROUP($GROUP)
DEFINE PROGRAM(BVPQE00) GROUP($GROUP)
DEFINE PROGRAM(BVPQF00) GROUP($GROUP)
DEFINE PROGRAM(BVPQF10) GROUP($GROUP)
DEFINE PROGRAM(BVPQG00) GROUP($GROUP)
DEFINE PROGRAM(BVPQH00) GROUP($GROUP)
DEFINE PROGRAM(BVPQH01) GROUP($GROUP)
DEFINE PROGRAM(BVPQH20) GROUP($GROUP)
DEFINE PROGRAM(BVPQH30) GROUP($GROUP)
DEFINE PROGRAM(BVPQI00) GROUP($GROUP)
DEFINE PROGRAM(BVPQI01) GROUP($GROUP)
DEFINE PROGRAM(BVPQI02) GROUP($GROUP)
DEFINE PROGRAM(BVPQI03) GROUP($GROUP)
DEFINE PROGRAM(BVPQI04) GROUP($GROUP)
DEFINE PROGRAM(BVPQI05) GROUP($GROUP)
DEFINE PROGRAM(BVPQI20) GROUP($GROUP)
DEFINE PROGRAM(BVPQI21) GROUP($GROUP)
DEFINE PROGRAM(BVPQI50) GROUP($GROUP)
DEFINE PROGRAM(BVPQK10) GROUP($GROUP)
DEFINE PROGRAM(BVPQK20) GROUP($GROUP)
DEFINE PROGRAM(BVPQK30) GROUP($GROUP)
DEFINE PROGRAM(BVPQL10) GROUP($GROUP)
DEFINE PROGRAM(BVPQL20) GROUP($GROUP)
DEFINE PROGRAM(BVPQL21) GROUP($GROUP)
DEFINE PROGRAM(BVPQL30) GROUP($GROUP)
DEFINE PROGRAM(BVPQL40) GROUP($GROUP)
DEFINE PROGRAM(BVPQL41) GROUP($GROUP)
DEFINE PROGRAM(BVPQL45) GROUP($GROUP)
DEFINE PROGRAM(BVPQL46) GROUP($GROUP)
DEFINE PROGRAM(BVPQM00) GROUP($GROUP)
DEFINE PROGRAM(BVPQP00) GROUP($GROUP)
DEFINE PROGRAM(BVPQP01) GROUP($GROUP)
DEFINE PROGRAM(BVPQP02) GROUP($GROUP)
DEFINE PROGRAM(BVPQP03) GROUP($GROUP)
DEFINE PROGRAM(BVPQP04) GROUP($GROUP)
```

```

DEFINE PROGRAM(BVPQP05) GROUP($GROUP)
DEFINE PROGRAM(BVPQP06) GROUP($GROUP)
DEFINE PROGRAM(BVPQP07) GROUP($GROUP)
DEFINE PROGRAM(BVPQP08) GROUP($GROUP)
DEFINE PROGRAM(BVPQP50) GROUP($GROUP)
DEFINE PROGRAM(BVPQR0) GROUP($GROUP)
DEFINE PROGRAM(BVPQR00) GROUP($GROUP)
DEFINE PROGRAM(BVPQS02) GROUP($GROUP)
DEFINE PROGRAM(BVPQS03) GROUP($GROUP)
DEFINE PROGRAM(BVPQS04) GROUP($GROUP)
DEFINE PROGRAM(BVPQS05) GROUP($GROUP)
DEFINE PROGRAM(BVPQS06) GROUP($GROUP)
DEFINE PROGRAM(BVPQS07) GROUP($GROUP)
DEFINE PROGRAM(BVPQT00) GROUP($GROUP)
DEFINE PROGRAM(BVPQT10) GROUP($GROUP)
DEFINE PROGRAM(BVPQT20) GROUP($GROUP)
DEFINE PROGRAM(BVPQT50) GROUP($GROUP)
DEFINE PROGRAM(BVPQU10) GROUP($GROUP)
DEFINE PROGRAM(BVPQU20) GROUP($GROUP)
DEFINE PROGRAM(BVPQV10) GROUP($GROUP)
DEFINE PROGRAM(BVPQV20) GROUP($GROUP)
DEFINE PROGRAM(BVPQV30) GROUP($GROUP)
DEFINE PROGRAM(BVPQX00) GROUP($GROUP)
DEFINE PROGRAM(BVPQX01) GROUP($GROUP)
DEFINE PROGRAM(BVPQY01) GROUP($GROUP)
DEFINE PROGRAM(BVPQY02) GROUP($GROUP)
DEFINE PROGRAM(BVPQY03) GROUP($GROUP)
DEFINE PROGRAM(BVPQY04) GROUP($GROUP)
DEFINE PROGRAM(BVPQY05) GROUP($GROUP)
DEFINE PROGRAM(BVPQY10) GROUP($GROUP)
DEFINE PROGRAM(BVPQY11) GROUP($GROUP)
DEFINE PROGRAM(BVPQY20) GROUP($GROUP)
DEFINE PROGRAM(BVPQY30) GROUP($GROUP)
DEFINE PROGRAM(BVPQZ00) GROUP($GROUP)
DEFINE PROGRAM(BVPQ000) GROUP($GROUP)
DEFINE PROGRAM(BVPQ100) GROUP($GROUP)
DEFINE PROGRAM(BVPQ200) GROUP($GROUP)
DEFINE PROGRAM(BVPQ210) GROUP($GROUP)
DEFINE PROGRAM(BVPQ300) GROUP($GROUP)
DEFINE PROGRAM(BVPQ400) GROUP($GROUP)
DEFINE PROGRAM(BVPQ500) GROUP($GROUP)
DEFINE PROGRAM(BVPQ600) GROUP($GROUP)
DEFINE PROGRAM(BVPQ700) GROUP($GROUP)
DEFINE PROGRAM(BVPQ800) GROUP($GROUP)
DEFINE PROGRAM(BVPQ900) GROUP($GROUP)
DEFINE PROGRAM(BVPRACF) GROUP($GROUP)
DEFINE PROGRAM(BVPRADM) GROUP($GROUP)
DEFINE PROGRAM(BVPRBAS) GROUP($GROUP)
DEFINE PROGRAM(BVPRCE00) GROUP($GROUP)
DEFINE PROGRAM(BVPRCS00) GROUP($GROUP)
DEFINE PROGRAM(BVPRC100) GROUP($GROUP)
DEFINE PROGRAM(BVPRDOC) GROUP($GROUP)
DEFINE PROGRAM(BVPRD000) GROUP($GROUP)
DEFINE PROGRAM(BVPRENU) GROUP($GROUP)
DEFINE PROGRAM(BVPRIT00) GROUP($GROUP)

```

```

DEFINE PROGRAM(BVPRLG) GROUP($GROUP)
DEFINE PROGRAM(BVPRLG5) GROUP($GROUP)
DEFINE PROGRAM(BVPRMC00) GROUP($GROUP)
DEFINE PROGRAM(BVPRPAR) GROUP($GROUP)
DEFINE PROGRAM(BVPRPRC) GROUP($GROUP)
DEFINE PROGRAM(BVPRPVP) GROUP($GROUP)
DEFINE PROGRAM(BVPRSEC) GROUP($GROUP)
DEFINE PROGRAM(BVPRTRF) GROUP($GROUP)
DEFINE PROGRAM(BVPRUSE) GROUP($GROUP)
DEFINE PROGRAM(BVPRVL00) GROUP($GROUP)
DEFINE PROGRAM(BVPR000) GROUP($GROUP)
DEFINE PROGRAM(BVPR005) GROUP($GROUP)
DEFINE PROGRAM(BVPR100) GROUP($GROUP)
DEFINE PROGRAM(BVPR200) GROUP($GROUP)
DEFINE PROGRAM(BVPR400) GROUP($GROUP)
DEFINE PROGRAM(BVPR500) GROUP($GROUP)
DEFINE PROGRAM(BVPR600) GROUP($GROUP)
DEFINE PROGRAM(BVPR980) GROUP($GROUP)
RESIDENT(YES)
DEFINE PROGRAM(BVPR990) GROUP($GROUP)
RESIDENT(YES)
DEFINE PROGRAM(BVPSB10) GROUP($GROUP)
DEFINE PROGRAM(BVPSB30) GROUP($GROUP)
DEFINE PROGRAM(BVPSCPI) GROUP($GROUP)
DEFINE PROGRAM(BVPSC00) GROUP($GROUP)
DEFINE PROGRAM(BVPSC10) GROUP($GROUP)
DEFINE PROGRAM(BVPSD00) GROUP($GROUP)
DEFINE PROGRAM(BVPSD05) GROUP($GROUP)
DEFINE PROGRAM(BVPSD07) GROUP($GROUP)
DEFINE PROGRAM(BVPSD10) GROUP($GROUP)
DEFINE PROGRAM(BVPSD15) GROUP($GROUP)
DEFINE PROGRAM(BVPSD16) GROUP($GROUP)
DEFINE PROGRAM(BVPSD17) GROUP($GROUP)
DEFINE PROGRAM(BVPSD20) GROUP($GROUP)
DEFINE PROGRAM(BVPSD25) GROUP($GROUP)
DEFINE PROGRAM(BVPSECT) GROUP($GROUP)
DEFINE PROGRAM(BVPSERR) GROUP($GROUP)
DEFINE PROGRAM(BVPSE00) GROUP($GROUP)
DEFINE PROGRAM(BVPSE10) GROUP($GROUP)
DEFINE PROGRAM(BVPSE20) GROUP($GROUP)
DEFINE PROGRAM(BVPSE30) GROUP($GROUP)
DEFINE PROGRAM(BVPSFC0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFD0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFE0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFF0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFH0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFIN) GROUP($GROUP)
DEFINE PROGRAM(BVPSFI0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFK0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFO0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFP0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFQ0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFR0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFS0) GROUP($GROUP)
DEFINE PROGRAM(BVPSFT0) GROUP($GROUP)

```



```
DEFINE PROGRAM(BVPSFX0) GROUP($GROUP)
DEFINE PROGRAM(BVPSF00) GROUP($GROUP)
DEFINE PROGRAM(BVPSF05) GROUP($GROUP)
DEFINE PROGRAM(BVPSF07) GROUP($GROUP)
DEFINE PROGRAM(BVPSF10) GROUP($GROUP)
DEFINE PROGRAM(BVPSF20) GROUP($GROUP)
DEFINE PROGRAM(BVPSH00) GROUP($GROUP)
DEFINE PROGRAM(BVPSH10) GROUP($GROUP)
DEFINE PROGRAM(BVPSH20) GROUP($GROUP)
DEFINE PROGRAM(BVPSH30) GROUP($GROUP)
DEFINE PROGRAM(BVPSI00) GROUP($GROUP)
DEFINE PROGRAM(BVPSI10) GROUP($GROUP)
DEFINE PROGRAM(BVPSI20) GROUP($GROUP)
DEFINE PROGRAM(BVPSI30) GROUP($GROUP)
DEFINE PROGRAM(BVPSK00) GROUP($GROUP)
DEFINE PROGRAM(BVPSO00) GROUP($GROUP)
DEFINE PROGRAM(BVPSO02) GROUP($GROUP)
DEFINE PROGRAM(BVPSO03) GROUP($GROUP)
DEFINE PROGRAM(BVPSO04) GROUP($GROUP)
DEFINE PROGRAM(BVPSO05) GROUP($GROUP)
DEFINE PROGRAM(BVPSO10) GROUP($GROUP)
DEFINE PROGRAM(BVPSO30) GROUP($GROUP)
DEFINE PROGRAM(BVPSO31) GROUP($GROUP)
DEFINE PROGRAM(BVPSO32) GROUP($GROUP)
DEFINE PROGRAM(BVPSO33) GROUP($GROUP)
DEFINE PROGRAM(BVPSO34) GROUP($GROUP)
DEFINE PROGRAM(BVPSO35) GROUP($GROUP)
DEFINE PROGRAM(BVPSO37) GROUP($GROUP)
DEFINE PROGRAM(BVPSO38) GROUP($GROUP)
DEFINE PROGRAM(BVPSO80) GROUP($GROUP)
DEFINE PROGRAM(BVPSP00) GROUP($GROUP)
DEFINE PROGRAM(BVPSP10) GROUP($GROUP)
DEFINE PROGRAM(BVPSP20) GROUP($GROUP)
DEFINE PROGRAM(BVPSP30) GROUP($GROUP)
DEFINE PROGRAM(BVPSP40) GROUP($GROUP)
DEFINE PROGRAM(BVPSP50) GROUP($GROUP)
DEFINE PROGRAM(BVPSP60) GROUP($GROUP)
DEFINE PROGRAM(BVPSP70) GROUP($GROUP)
DEFINE PROGRAM(BVPSP80) GROUP($GROUP)
DEFINE PROGRAM(BVPSQ00) GROUP($GROUP)
DEFINE PROGRAM(BVPSQ05) GROUP($GROUP)
DEFINE PROGRAM(BVPSQ07) GROUP($GROUP)
DEFINE PROGRAM(BVPSR00) GROUP($GROUP)
DEFINE PROGRAM(BVPSR10) GROUP($GROUP)
DEFINE PROGRAM(BVPSR20) GROUP($GROUP)
DEFINE PROGRAM(BVPSR30) GROUP($GROUP)
DEFINE PROGRAM(BVPSR40) GROUP($GROUP)
DEFINE PROGRAM(BVPSR50) GROUP($GROUP)
DEFINE PROGRAM(BVPSOC) GROUP($GROUP)
DEFINE PROGRAM(BVPSO0) GROUP($GROUP)
DEFINE PROGRAM(BVPS1B) GROUP($GROUP)
DEFINE PROGRAM(BVPS1C) GROUP($GROUP)
DEFINE PROGRAM(BVPS10) GROUP($GROUP)
DEFINE PROGRAM(BVPS20) GROUP($GROUP)
DEFINE PROGRAM(BVPS30) GROUP($GROUP)
```

```

DEFINE PROGRAM(BVPSS40) GROUP($GROUP)
DEFINE PROGRAM(BVPST00) GROUP($GROUP)
DEFINE PROGRAM(BVPST10) GROUP($GROUP)
DEFINE PROGRAM(BVPST20) GROUP($GROUP)
DEFINE PROGRAM(BVPST30) GROUP($GROUP)
DEFINE PROGRAM(BVPSX00) GROUP($GROUP)
DEFINE PROGRAM(BVPSX10) GROUP($GROUP)
DEFINE PROGRAM(BVPSY00) GROUP($GROUP)
DEFINE PROGRAM(BVPSY05) GROUP($GROUP)
DEFINE PROGRAM(BVPSY07) GROUP($GROUP)
DEFINE PROGRAM(BVPSY10) GROUP($GROUP)
DEFINE PROGRAM(BVPSY20) GROUP($GROUP)
DEFINE PROGRAM(BVPSY30) GROUP($GROUP)
DEFINE PROGRAM(BVPSY40) GROUP($GROUP)
DEFINE PROGRAM(BVPSY50) GROUP($GROUP)
DEFINE PROGRAM(BVPTPST) GROUP($GROUP)
DEFINE PROGRAM(BVPTPWS) GROUP($GROUP)
DEFINE PROGRAM(BVPUCTR) GROUP($GROUP)
RESIDENT(YES)
DEFINE PROGRAM(BVPUCTX) GROUP($GROUP)
*****
DEFINE TRANSACTION($CSOC) GROUP($GROUT)
DESCRIPTION(CODE TRANSACTION SOCKET) PROGRAM(BVPSOC)
DEFINE TRANSACTION($CPIC) GROUP($GROUT)
DESCRIPTION(CODE TRANSACTION CPIC) PROGRAM(BVPSPCI)
*****
ADD GROUP($GROUP) LIST($LIST)
ADD GROUP($GROUP) LIST($LIST)
ADD GROUP($GROUT) LIST($LIST)
//

```

Allocation and Loading of System Parameters

D01ALLOC MODULE: '\$prfj.D1' JOB

Allocation of file: \$INDSN..BVPSY

Step	Program	Comments
STEP1	IDCAMS	DELETE of files
STEP2	IEFBR14	allocation of files

EXECUTION JCL

```

//$PRFJ.D1 JOB ($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..BVPSY)
//*
//STEP2 EXEC PGM=IEFBR14
//SY DD DSN=$INDSN..BVPSY,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLSND,
// UNIT=$UNITSN,
// SPACE=(6080,(50,,5))
//

```

D02CPAR MODULE: '\$prfj.D2C' JOB

Loading of \$INDSN..BVPSY file

Step	Program	Comments
STEP1	IEBUPDTE	Loading of PDS members

CAUTION

Replace all :/ with ./ before submitting the job.

EXECUTION JCL

```

===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..BVPSY,DISP=SHR
//SYSIN DD DATA,DLM='PP'
:/ ADD NAME=SRTRE01
SORT FIELDS=(1,25,A,48,4,A,32,7,A,39,1,D,54,7,A,26,1,D),FORMAT=BI
:/ ADD NAME=SRTRE02
SORT FIELDS=(1,60,A),FORMAT=BI
:/ ADD NAME=SRTPC25
SORT FIELDS=(42,8,A),FORMAT=BI
:/ ADD NAME=DFBVPAE
DELETE ($INDSV..BVPAE) CLUSTER

```

```

SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPAE)           -
                 SHR (2,3) RUS   KEYS (12,0)    -
                 VOL ($VOLSV)                   -
                 CYL (45)                        -
                 RECSZ (80 80) )                 -
INDEX   ( NAME ($INDSV..BVPAE.I)               -
         CISZ (1024) )                           -
DATA    ( NAME ($INDSV..BVPAE.D)               -
         FSPC (2,1)                             -
         CISZ (4096) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DFBVPGN
DELETE ($INDSV..BVPGN) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPGN)           -
                 SHR (2) RUS   KEYS (49,0)     -
                 VOL ($VOLSV)                   -
                 CYL (4 1)                       -
                 RECSZ (59,59) )                 -
INDEX   ( NAME ($INDSV..BVPGN.I)               -
         CISZ (4096) )                           -
DATA    ( NAME ($INDSV..BVPGN.D)               -
         FSPC (10,5)                             -
         CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DFBVPGR
DELETE ($INDSV..BVPGR) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPGR)           -
                 SHR (2) RUS   NUMBERED        -
                 VOL ($VOLSV)                   -
                 CYL (4 1)                       -
                 RECSZ (144,144) )                 -
DATA    ( NAME ($INDSV..BVPGR.D)               -
         CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DFBVPGY
DELETE ($INDSV..BVPGY) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPGY)           -
                 SHR (2) RUS   NUMBERED        -
                 VOL ($VOLSV)                   -
                 CYL (4 1)                       -
                 RECSZ (1018,1018) )                 -
DATA    ( NAME ($INDSV..BVPGY.D)               -
         CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DFBVPGJ
DELETE ($INDSV..BVPGJ) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPGJ)           -
                 SHR (2) RUS   NUMBERED        -
                 VOL ($VOLSV)                   -

```

```

                CYL (1 1) -
                RECSZ (170,170) ) -
DATA ( NAME ($INDSV..BVPGJ.D) -
CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFBVPGU
DELETE ($INDSV..BVPGU) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPGU) -
                SHR (2,3) RUS KEYS (8,0) -
                VOL ($VOLSV) -
                CYL (4 1) -
                RECSZ (80,80) ) -
INDEX ( NAME ($INDSV..BVPGU.I) -
        CISZ (1024) ) -
DATA ( NAME ($INDSV..BVPGU.D) -
        FSPC (2,1) -
        CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFBVPSC
DELETE ($INDSV..BVPSC) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPSC) -
                SHR (2,3) RUS KEY (4 0) -
                VOL ($VOLSV) -
                RECSZ (3204,3204) ) -
INDEX ( NAME ($INDSV..BVPSC.I) -
        CISZ (256) ) -
DATA ( NAME ($INDSV..BVPSC.D) -
        FSPC (10,5) SPEED TRK (5) -
        CISZ (3584) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFBVPSC
DELETE ($INDSV..BVPSC) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPSC) -
                SHR (2,3) RUS KEY (5 0) -
                VOL ($VOLSV) -
                RECSZ (4605,4605) ) -
INDEX ( NAME ($INDSV..BVPSC.I) -
        CISZ (256) ) -
DATA ( NAME ($INDSV..BVPSC.D) -
        FSPC (10,5) SPEED CYL (4 1) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFBVPSP
DELETE ($INDSV..BVPSP) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPSP) -
                SHR (2,3) RUS KEY (5 0) -
                VOL ($VOLSV) -
                RECSZ (4605,4605) ) -
INDEX ( NAME ($INDSV..BVPSP.I) -
        CISZ (256) ) -
DATA ( NAME ($INDSV..BVPSP.D) -
        FSPC (10,5) SPEED CYL (3 1) -
        CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFBVPSP
DELETE ($INDSV..BVPSP) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPSP) -
                SHR (2,3) RUS KEY (5 0) -
                VOL ($VOLSV) -
                RECSZ (4605,4605) ) -

```

```

        INDEX ( NAME ($INDSV..BVPSR.I) -
              CISZ (256) ) -
DATA ( NAME ($INDSV..BVPSR.D) -
      FSPC (10,5) SPEED TRK (5) -
      CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFBVPS
DELETE ($INDSV..BVPS) CLUSTER
  DEFINE CLUSTER ( NAME ($INDSV..BVPS) -
                  SHR (2,3) RUS KEY (5 0) -
                  VOL ($VOLSV) -
                  RECSZ (4605,4605) ) -
        INDEX ( NAME ($INDSV..BVPS.I) -
              CISZ (256) ) -
        DATA ( NAME ($INDSV..BVPS.D) -
              FSPC (10,5) SPEED TRK (3 1) -
              CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFBVPGS
DELETE ($INDSV..BVPGS) CLUSTER
  DEFINE CLUSTER ( NAME ($INDSV..BVPGS) -
                  SHR (2) RUS KEYS (25,0) -
                  VOL ($VOLSV) -
                  CYL (1 1) -
                  RECSZ (214,214) ) -
        INDEX ( NAME ($INDSV..BVPGS.I) -
              CISZ (1024) ) -
        DATA ( NAME ($INDSV..BVPGS.D) -
              FSPC (10,5) -
              CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFBVPS
DELETE ($INDSV..BVPS) CLUSTER
  DEFINE CLUSTER ( NAME ($INDSV..BVPS) -
                  SHR (2,3) RUS KEY (5 0) -
                  VOL ($VOLSV) -
                  RECSZ (4605,4605) ) -
        INDEX ( NAME ($INDSV..BVPS.I) -
              CISZ (256) ) -
        DATA ( NAME ($INDSV..BVPS.D) -
              FSPC (10,5) SPEED CYL (5 1) -
              CISZ (5120) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFTABTDF
DELETE ($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 ($VCAT) */
:/ ADD NAME=DFDSMSDC
LISTCAT ENTRIES ($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 ($VCAT) */
END
:/      ADD NAME=DFBVPLB
DELETE ($INDSV..BVPLB) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..BVPLB)        -
                 SHR (4) RUS KEYS (23,0)   -
                 VOL ($VOLSV)               -
                 CYL (2 1)                  -
                 RECSZ (117,117) )          -
INDEX ( NAME ($INDSV..BVPLB.I)             -
       CISZ (4096) )                       -
DATA ( NAME ($INDSV..BVPLB.D)              -
      FSPC (10,5)                             -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DFBVPPA
DELETE ($INDSV..BVPPA) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPPA)        -
                 SHR (2 3) RUS KEYS (37 2) -
                 VOL ($VOLSV)               -
                 CYL (5 1)                  -
                 RECSZ (200 539) )          -
INDEX ( NAME ($INDSV..BVPPA.I)             -
       CISZ (512) )                         -
DATA ( NAME ($INDSV..BVPPA.D)              -
      FSPC (10 5) SPEED                       -
      CISZ (4096) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DFBVPTR
DELETE ($INDSV..BVPTR) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPTR)        -
                 SHR (2 3) RUS NUMBERED     -
                 VOL ($VOLSV)               -
                 CYL (1 1)                  -
                 RECSZ (4000 4000) )        -
DATA ( NAME ($INDSV..BVPTR.D)              -
      FSPC (10 5) SPEED                       -
      CISZ (4096) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DFBVPWS
DELETE ($INDSV..BVPWS) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..BVPWS)        -
                 SHR (2 3) RUS KEYS (37 0) -
                 VOL ($VOLSV)               -
                 TRACK (30 1)                -
                 RECSZ (1537 1537) )       -
INDEX ( NAME ($INDSV..BVPWS.I)             -

```

```

        CISZ (4096) ) -
DATA ( NAME ($INDSV..BVPWS.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($SCAT) */
:/ ADD NAME=DFSYSPAF
DELETE ($INDUV..SYSPAF.&USER) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..SYSPAF.&USER) -
                SHR (2 3) RUS KEYS(12 0) -
                VOL ($VOLUV) -
                CYL (5 1) -
                RECSZ (170 1031) ) -
INDEX ( NAME ($INDUV..SYSPAF.&USER.I) -
       CISZ (512) ) -
DATA ( NAME ($INDUV..SYSPAF.&USER.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFSYSEXT
DELETE ($INDUV..SYSEXT.&USER) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..SYSEXT.&USER) -
                SHR (2 3) RUS KEYS(43 0) -
                VOL ($VOLUV) -
                CYL (5 1) -
                RECSZ (254 254) ) -
INDEX ( NAME ($INDUV..SYSEXT.&USER.I) -
       CISZ (512) ) -
DATA ( NAME ($INDUV..SYSEXT.&USER.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFSYIANA
DELETE ($INDUV..SYIANA.&USER) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..SYIANA.&USER) -
                SHR (2 3) RUS KEYS(94 1) -
                VOL ($VOLUV) -
                CYL (5 1) -
                RECSZ (100 100) ) -
INDEX ( NAME ($INDUV..SYIANA.&USER.I) -
       CISZ (512) ) -
DATA ( NAME ($INDUV..SYIANA.&USER.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFWKREOR
DELETE ($INDUV..WKREOR) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..WKREOR) -
                SHR (2 3) RUS KEYS(8 0) -
                VOL ($VOLUV) -
                CYL (1 1) -
                RECSZ (162,162) ) -

```



```

INDEX ( NAME ($INDUV..WKREOR.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDUV..WKREOR.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFWYREOR
DELETE ($INDUV..WYREOR) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..WYREOR) -
                SHR (2 3) RUS KEYS(8 0) -
                VOL ($VOLUV) -
                CYL (2 1) -
                RECSZ (1028,1028) ) -
INDEX ( NAME ($INDUV..WYREOR.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDUV..WYREOR.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFWKROAD
DELETE ($INDSV..WKROAD) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..WKROAD) -
                SHR (2 3) RUS KEYS(8 0) -
                VOL ($VOLSV) -
                CYL (1 1) -
                RECSZ (162,162) ) -
INDEX ( NAME ($INDSV..WKROAD.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDSV..WKROAD.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFWYROAD
DELETE ($INDSV..WYROAD) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDSV..WYROAD) -
                SHR (2 3) RUS KEYS(8 0) -
                VOL ($VOLSV) -
                CYL (2 1) -
                RECSZ (1028,1028) ) -
INDEX ( NAME ($INDSV..WYROAD.I) -
      CISZ (4096) ) -
DATA ( NAME ($INDSV..WYROAD.D) -
      FSPC (10 5) SPEED -
      CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DFSYTRPF
DELETE ($INDUV..SYTRPF.&USER) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..SYTRPF.&USER) -
                SHR (2 3) RUS KEYS(28 0) -
                VOL ($VOLUV) -
                CYL (5 1) -

```



```

:/      ADD NAME=VERIFGJ
VERIFY FILE (PACGGJ)
:/      ADD NAME=VERIFGU
VERIFY FILE (PACGGU)
:/      ADD NAME=VERIFAN
VERIFY FILE (PAC7AN)
:/      ADD NAME=VERIFAR
VERIFY FILE (PAC7AR)
:/      ADD NAME=VERIFAY
VERIFY FILE (PAC7AY)
:/      ADD NAME=VERIFAJ
VERIFY FILE (PAC7AJ)
:/      ADD NAME=VERIFAE
VERIFY FILE (PAC7AE)
:/      ADD NAME=VERIFLB
VERIFY FILE (PAC7LB)
:/      ADD NAME=VERIFQJ
VERIFY FILE (PAC7QJ)
:/      ADD NAME=VERIFSG
VERIFY FILE (PAC7SG)
:/      ADD NAME=VERIFSN
VERIFY FILE (PAC7SN)
:/      ADD NAME=VERIFSC
VERIFY FILE (PAC7SC)
:/      ADD NAME=VERIFSR
VERIFY FILE (PAC7SR)
:/      ADD NAME=VERIFSP
VERIFY FILE (PAC7SP)
:/      ADD NAME=VERIFSS
VERIFY FILE (PAC7SS)
:/      ADD NAME=VERIFTD
VERIFY FILE (PAC7TD)
:/      ADD NAME=VERIFEM
VERIFY FILE (PAC7EM)
:/      ADD NAME=LIBVPAE
LISTCAT ENTRIES ($INDSV..BVP AE) CLUSTER
:/      ADD NAME=LIBVPGJ
LISTCAT ENTRIES ($INDSV..BVP GJ) CLUSTER
PP
//

```

Initialization

D03DEFIN MODULE: '\$prfj.D3' JOB

Allocation of system and administration files

Step	Program	Comments
STEP1	IDCAMS	Delete/Define

EXECUTION JCL

```

//$PRFJ.D3 JOB ($CCPT),'PAC D03DEFIN',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//* INSTALLATION - D03DEFIN *
//* DEFINITION OF COMMON VSAM FILES *
//* STEP1 : DELETE/DEFINE *
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPSG),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPSN),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPSR),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPPA),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPGS),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPGN),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPGR),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPGY),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPGJ),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPLB),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPTR),DISP=SHR
// DD DSN=$INSDN..BVPSY(DFBVPS),DISP=SHR
//*
//

```

D03GDG MODULE: '\$prfj.D3G' JOB

Allocation model DSCB - Definition GDG

Step	Program	Comments
STEP1	IDCAMS	DELETE of model DSCB files
STEP2	IEFBR14	Allocation of model DSCB

EXECUTION JCL

```

//$PRFJ.D3G JOB ($CCPT),'PAC D03GDG',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//* INSTALLATION - D03GDG *
//* JOB TO RUN ONLY THE FIRST TIME THE PRODUCT IS INSTALLED *
//* . BUILDING OF DSCB MODEL *
//*****
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT

```

```

//SYSIN DD *
DELETE ($DSCB)
//*
//STEP2 EXEC PGM=IEFBR14
//DSCB DD DISP=(,CATLG),SPACE=(TRK,0),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// DSN=$DSCB
//*
//

```

D03INI MODULE: '\$prfj.D3I' JOB

Initialization of system and administration Database files

Step	Program	Comments
STEP1	IDCAMS	Initialization of PA working file maxi key (PAF user on-line request)
STEP2	IDCAMS	Initialization of GS extraction schema file max. key (PAF extension)
STEP3	IDCAMS	Initialization WS working file max. key (Workstation)
STEP4	IDCAMS	Initialization of jobs follow-up file max. key

EXECUTION JCL

```

//$PRFJ.D3I JOB ($CCPT),'PAC D03INI',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - D03INI *
//*  INITIALIZATION: JOB TO RUN ONLY *
//*  THE FIRST TIME THE PRODUCT IS INSTALLED *
//*    . INITIALIZATION OF P.A.F. WORK FILES PA *
//*    . INITIALIZATION OF PDM EXTENSION-USER FILE "GS" *
//*    . INITIALIZATION OF WORK FILE STATION WS *
//*    . INITIALIZATION OF JOB REPORT FILE LB *
//*****
//STEP1 EXEC PGM=IDCAMS
//*:STEP1 DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//PAO DD DSN=$INDSV..BVPPA,DISP=SHR
//PAI DD DSN=$INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN DD *
//  REPRO INFILE (PAI)  OUTFILE (PAO)
//*
//STEP2 EXEC PGM=IDCAMS
//*:STEP2 DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//GSO DD DSN=$INDSV..BVPGS,DISP=SHR

```

```

//GSI      DD DSN=$INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN    DD *
          REPRO INFILE (GSI)   OUTFILE (GSO)
//*
//STEP3   EXEC PGM=IDCAMS
//*:STEP3 DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//WSO     DD DSN=$INDSV..BVPWS,DISP=SHR
//WSI     DD DSN=$INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN   DD *
          REPRO INFILE (WSI)   OUTFILE (WSO)
//*
//STEP4   EXEC PGM=IDCAMS
//*:STEP4 DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//LBO     DD DSN=$INDSV..BVPLB,DISP=SHR
//LBI     DD DSN=$INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN   DD *
          REPRO INFILE (LBI)   OUTFILE (LB0)
//

```

Renaming the Exit users batch programs

D04MBR MODULE: '\$prfj.D4B' JOB

Rename Exit users batch programs

Step	Program	Comments
STEP1	IEBCOPY	RENAME load modules Exit users
STEP2	IEBCOPY	COPY load modules Exit users

EXECUTION JCL

```

//$PRFJ.D4B JOB ($CCPT),'PAC D04MBR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* * *
//*          INSTALLATION - D04MBR *
//*          - RENAME EXIT USERS BATCH LOAD MODULES - *
//*****
//STEP1   EXEC PGM=IEBCOPY,REGION=0M
//SYSPRINT DD SYSOUT=$OUT
//I1      DD DSN=$HLQ..SBVPMBR8,DISP=SHR
//O1      DD DSN=&&TEMP,DISP=(NEW,PASS),
//          UNIT=SYSDA,SPACE=(CYL,(20,10,100)),
//          DCB=(TRTCH=NOCOMP,RECFM=U,BLKSIZE=6144)
//SYSIN   DD *
          C INDD=I1,OUTDD=O1
          S M=((BVPRBASB,BVPRBAS))
          S M=((BVPRC10B,BVPRC100))
          S M=((BVPRCE0B,BVPRCE00))
          S M=((BVPRCS0B,BVPRCS00))

```

```

S M=((BVPRDOC,BVPRDOC))
S M=((BVPRDO0B,BVPRDO00))
S M=((BVPRIT0B,BVPRIT00))
S M=((BVPRLGFB,BVPRLGF))
S M=((BVPRLGSB,BVPRLGS))
S M=((BVPRMC0B,BVPRMC00))
S M=((BVPRPARB,BVPRPAR))
S M=((BVPRPRCB,BVPRPRC))
S M=((BVPRPVPB,BVPRPVP))
S M=((BVPRSECB,BVPRSEC))
S M=((BVPRTRFB,BVPRTRF))
S M=((BVPRUSEB,BVPRUSE))
S M=((BVPRVL0B,BVPRVL00))

/*
/**
//STEP2 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//I1 DD DSN=&&TEMP,DISP=(OLD,DELETE)
//O1 DD DSN=$HLQ..SBVPMBR8,DISP=SHR
//SYSIN DD *
C I=((I1,R)),0=01
/*

```

Loading of Procedures

It is recommended that all operation procedures be cataloged in one procedure library:

- Either in a 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.

D05IPROC MODULE: '\$prfj.D5I' JOB

Allocation of a reserved library (optional)

Step	Program	Comments
STEP1	IEFBR14	Allocation of procedure library

EXECUTION JCL

```

//$PRFJ.D5I JOB ($CCPT),'PAC D05IPROC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
/* VISUALAGE PACBASE *
/* *
/* INSTALLATION - D05IPROC *
/* *
/* WARNING! OPTIONAL JOB *
/* ===== *
/* *
/* INITIAL ALLOCATION OF A SPECIAL "PROCLIB" FOR THE PRODUCT *

```

```

//*      .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))

```

D05PROC MODULE: '\$prfj.D5P' JOB

Loading of procedures

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 'BVPNNNN', where NNNN is the standard name of the procedure.

Procedures are detailed in the 'Administrator's Procedures' manual or in the 'Developer's Procedures' manual, except for the older database retrieval procedures, which are described in this manual.

EXECUTION JCL

```

//$PRFJ.D5P JOB ($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=BVPARAD
:/ ADD NAME=BVPARCH
:/ ADD NAME=BVPGPRP
:/ ADD NAME=BVPGPRT

```



```
:/ ADD NAME=BVPGPRU
:/ ADD NAME=BVPUPDT
:/ ADD NAME=BVPUPDP
:/ ADD NAME=BVPPACG
:/ ADD NAME=BVPPACS
:/ ADD NAME=BVPPACX
:/ ADD NAME=BVPREOR
:/ ADD NAME=BVPROAD
:/ ADD NAME=BVPREST
:/ ADD NAME=BVPR SAD
:/ ADD NAME=BVPRESY
:/ ADD NAME=BVPSASY
:/ ADD NAME=BVPVINS
:/ ADD NAME=BVPVING
:/ ADD NAME=BVPPPAF
:/ ADD NAME=BVPINAE
:/ ADD NAME=BVPINGU
:/ ADD NAME=BVPINQJ
:/ ADD NAME=BVPSADM
:/ ADD NAME=BVPYSMC
:/ ADD NAME=BVPSTOP
:/ ADD NAME=BVPEMLD
:/ ADD NAME=BVPEMUP
:/ ADD NAME=BVPGETA
:/ ADD NAME=BVPGETD
:/ ADD NAME=BVPGETI
:/ ADD NAME=BVPSMTD
:/ ADD NAME=BVPRMTD
:/ ADD NAME=BVPACTI
:/ ADD NAME=BVPPQCA
:/ ADD NAME=BVPPQCE
:/ ADD NAME=BVPHIPM
:/ ADD NAME=BVPSIPM
:/ ADD NAME=BVPEXPM
:/ ADD NAME=BVPCPPM
:/ ADD NAME=BVPCHPM
:/ ADD NAME=BVPTRED
:/ ADD NAME=BVPTRDU
:/ ADD NAME=BVPTRJC
:/ ADD NAME=BVPTRPF
:/ ADD NAME=BVPTRRP
:/ ADD NAME=BVPTRUP
:/ ADD NAME=BVPIANA
:/ ADD NAME=BVPIGRA
:/ ADD NAME=BVPIMFH
:/ ADD NAME=BVPINFP
:/ ADD NAME=BVPINFQ
:/ ADD NAME=BVPIPEP
:/ ADD NAME=BVPIPFQ
:/ ADD NAME=BVPIPIA
:/ ADD NAME=BVPISEP
:/ ADD NAME=BVPI SOS
:/ ADD NAME=BVPPRGS
:/ ADD NAME=BVPXPAF
:/ ADD NAME=BVPXPDM
```

```

:/ ADD NAME=BVPINSL
:/ ADD NAME=BVPCSES
:/ ADD NAME=BVPESES
:/ ADD NAME=BVPGY25
:/ ADD NAME=BVPGY30
:/ ADD NAME=BVPMB25
:/ ADD NAME=BVPMB30
:/ ADD NAME=BVPPC25
:/ ADD NAME=BVPPE25
:/ ADD NAME=BVPPG20
:/ ADD NAME=BVPPG25
:/ ADD NAME=BVPPP25
:/ ADD NAME=BVPUV25
:/ ADD NAME=BVPSTAT
:/ ADD NAME=BVPUTAG
:/ ADD NAME=BVPUTFG
:/ ADD NAME=BVPUTSD
:/ ADD NAME=BVPUTU1
:/ ADD NAME=BVPUTU2
F+
//

```

Loading of Generation Skeleton Files

D06SKEL MODULE: '\$prfj.D6' JOB

Creation and loading of skeleton files.

Step	Program	Comments
STEP1	IDCAMS	DELETE/DEFINE SC SG SN SR SS SP
STEP2	IDCAMS	loading (REPRO) of SC SG SN SR SS SP
STEP3	IDCAMS	DELETE of SF file
STEP4	IEBGENER	Loading of SF file

EXECUTION JCL

```

//$PRFJ.D6 JOB ($CCPT),'PAC D06SKEL',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//* INSTALLATION - D06SKEL *
//* LOADING OF PRODUCT SKELETON FILES FOR GENERATION *
//* .STEP1 : DELETE DEFINE SKELETON FILES SC SG SN SR SS SP *
//* .STEP2 : LOADING VSAM SKELETON FILES SC SG SN SR SS SP *
//* .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=$INDSN..BVPSY(DFBVPSC),DISP=SHR
// DD DSN=$INDSN..BVPSY(DFBVPSC),DISP=SHR
// DD DSN=$INDSN..BVPSY(DFBVPSN),DISP=SHR
// DD DSN=$INDSN..BVPSY(DFBVPSR),DISP=SHR
// DD DSN=$INDSN..BVPSY(DFBVPS),DISP=SHR
// DD DSN=$INDSN..BVPSY(DFBVPS),DISP=SHR
//*
//STEP2 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SCO DD DSN=$INDSV..BVPSC,DISP=SHR
//SGO DD DSN=$INDSV..BVPSG,DISP=SHR
//SNO DD DSN=$INDSV..BVPSN,DISP=SHR
//SRO DD DSN=$INDSV..BVPSR,DISP=SHR
//SSO DD DSN=$INDSV..BVPS,DISP=SHR
//SPO DD DSN=$INDSV..BVPSP,DISP=SHR
//SCI DD DSN=$HLQ..SBVPPF6(BVPSC$LSK),DISP=SHR
//SGI DD DSN=$HLQ..SBVPPF5(BVPSG$LSK),DISP=SHR
//SNI DD DSN=$HLQ..SBVPPF5(BVPSN$LSK),DISP=SHR
//SRI DD DSN=$HLQ..SBVPPF5(BVPSR$LSK),DISP=SHR
//SSI DD DSN=$HLQ..SBVPPF5(BVPS$LSK),DISP=SHR
//SPI DD DSN=$HLQ..SBVPPF5(BVPSP),DISP=SHR
//SYSIN DD *
REPRO INFILE (SCI) OUTFILE (SCO)
REPRO INFILE (SGI) OUTFILE (SGO)
REPRO INFILE (SNI) OUTFILE (SNO)
REPRO INFILE (SRI) OUTFILE (SRO)
REPRO INFILE (SSI) OUTFILE (SSO)
REPRO INFILE (SPI) OUTFILE (SPO)
//*
//STEP3 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($INDSN..BVPSF)
//*
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=$HLQ..SBVPPF7(BVPSF),DISP=SHR
//SYSUT2 DD DSN=$INDSN..BVPSF,DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,(10,1)),
// DCB=(RECFM=FB,LRECL=119,BLKSIZE=11900)
//*
//

```

Loading of Error messages and on-line help

D07AE0 MODULE: 'prfj.D7' JOB

This JCL defines, and then loads the AE error messages file.

It must be executed each time a version is re-installed.

English is the default language code.

To recognize one or more other languages, you must add as many parameter lines containing the language code on two characters in position 3.

To recognize all the available languages, you must enter a parameter line containing '**' in position 3.

Code	Language Name
DE	German
EN	English
ES	Spanish
FR	French
PT	Portuguese
**	All languages

Step	Program	Comments
INPUT	BVPTU001	Recognition of the language parameter
DELDEF	IDCAMS	DELETE DEFINE of AE
MAXKEY	IDCAMS	Maximum key valorization of AE
PTUCAE	BVPTUCAE	AE supplying shipped

EXECUTION JCL

```
// $PRFJ.D7 JOB ($CCPT), 'PAC D07AE0', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=( $BIBP)
// *****
// * VISUALAGE PACBASE *
// * * *
// * INSTALLATION - D07AE *
// *****
// INAE EXEC BVPINAE
**
/*
```

Installation of the Administration Database

Users File Initialization

D08INGU MODULE: '\$prfj.D8' JOB

This JCL should be submitted at the first installation only.

It defines, and then loads the GU file with the 'TEST' and 'ADMIN' user codes. These user codes will be used when the test JCL lines are run.

Step	Program	Comments
STEP1	IDCAMS	DELETE DEFINE of GU
STEP2	PTUIGU	creation of data

EXECUTION JCL

```

//$PRFJ.D8 JOB ($CCPT), 'PAC D08INGU', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - D08INGU *
//*          - INITIALIZATION OF USER FILE GU - *
//* *
//*          EXECUTE THIS JOB ONLY FOR FIRST INSTALLATION *
//* *
//*****
//*
//INGU EXEC BVPINGU

```

Initialization of Generation Data Groups

D08INIAD MODULE: '\$prfj.D8A' JOB

This JCL must be submitted at the first installation only.

It creates GDG files and initializes the journal and administration Database backup.

CAUTION

If the files are handled on SMS, delete the lines DD //GDGMOD of the IDCAMS Steps JCL before submitting the job.

Step	Program	Comments
STEP1	IDCAMS	GDG of administration file journal
STEP2	IEBGENER	Initialization of this file (PK)
STEP3	IDCAMS	GDG of admin. backup file
STEP4	IEBGENER	Initialization of this file (PE)

EXECUTION JCL

```

//$PRFJ.D8A JOB ($CCPT),'PAC D08INIAD',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
// * *
// *          INSTALLATION - D08INIAD *
// * JOB TO RUN ONLY FOR THE 1ST INSTALL OF DATABASE ADMINISTRATOR *
// * . BUILDING OF INDEX DATA-GROUP FOR *
// * "PE" SAVE FILE, "PK" ARCHIVAL FILE *
// * . "PK" FILE INITIALIZATION *
// * . LOADING OF TEST DATABASE ON "PE" FILE *
// * ->NOTE *
// * ---- *
// * IF "SMS" IS INSTALLED DELETE //GDGMOD DD STATEMENTS *
//*****
//STEP1 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$VCAT,DISP=SHR
//GDGMOD DD DSN=$INDSN..BVPPK,
// DISP=(,KEEP,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,0),
// DCB=($DSCB,RECFM=FB,LRECL=170,BLKSIZE=6800)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
    DEFINE GENERATIONDATAGROUP -
        (NAME ($INDSN..BVPPK) LIMIT (3) SCR)
// *
//STEP2 EXEC PGM=IEBGENER
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=170,BLKSIZE=170)
//SYSUT2 DD DSN=$INDSN..BVPPK(+1),
// DISP=(,CATLG,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,1),
// DCB=($DSCB,RECFM=FB,LRECL=170,BLKSIZE=6800)
// *
//STEP3 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$VCAT,DISP=SHR
//GDGMOD1 DD DSN=$INDSN..BVPPE,
// DISP=(,KEEP,DELETE),
// UNIT=$UNITSN,
// VOL=SER=$VOLSN,
// SPACE=(TRK,0),
// DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
    DEFINE GENERATIONDATAGROUP -
        (NAME ($INDSN..BVPPE) LIMIT (3) SCR)
// *
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY

```

```

//SYSUT1 DD DSN=$HLQ..SBVPF2(BVPPE),DISP=SHR
//SYSUT2 DD DSN=$INDSN..BVPPE(+1),
//        DISP=(,CATLG,DELETE),
//        UNIT=$UNITSN,
//        VOL=SER=$VOLSN,
//        SPACE=(TRK,(220,10),RLSE),
//        DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//*
//

```

Loading of the Administration Database

D08RSAD MODULE: '\$prfj.D8B' JOB

This JCL must be submitted at the first installation only.

It runs the RSAD procedure in order to restore the administration Database with the backup file created in the previous '\$prfj.D8A' job.

NOTE

If you have a database that is older than the 3.0 version, consult the chapter dedicated to the retrieval of user parameters.

CAUTION

To use VisualAge Pacbase, you need an access key. You must enter here the key that you were given at delivery.

EXECUTION JCL

```

//$PRFJ.D8B JOB ($CCPT),'PAC D08RSAD',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - D08RSAD *
//* CREATION OF THE TEST DATABASE ADMINISTRATOR *
//* INDICATE THE LANGAGE CODE OF THE SITE ON Y LINE COL 10-11 *
//* COMPLETE THE SYSTEM ACCESS KEY AS REQUESTED *
//*****
//TESTRSAD EXEC BVPRSD
*ADMIN ADMIN
Y04000 EN
C<ACCES KEY (70 CHARACTERS)>
//

```

Loading of the Administration Model

D08XMET MODULE: '\$prfj.8X' JOB

This JCL must be submitted at the first installation and at each re-installation.

It is used to run the VING procedure and to install the administration model.

EXECUTION JCL

```

//$PRFJ.8X JOB ($CCPT),'PAC D08XMET',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* *
//* - ADMINISTRATION DATABASE - *
//* MODEL INSTALLATION *
//* INDICATE THE FILE NECESSARY FOR ROAD PROCEDURE *
//*****
//VING EXEC BVPVING,FDIC='$HLQ..SBVPF8(BVPMETAD)',
// USER=ADMIN
*ADMIN ADMIN *** VINSI
/*
//*VINS.PAC7MR DD DSN=ROADFILE

```

List of components with their date of creation

D99INSL MODULE: '\$prfj.D9' JOB

This job prints the following lists:

- A list of batch and on-line programs, with their generation characteristics,
- A list of permanent system files AE, SC, SG, SR, SS, SN, SP and SF with the date of their creation.

In case of system operation problem, these lists should be printed in order to communicate to VisualAge Pacbase Support all the installation references.

This job also executes the INSL procedure.

Meaning of return code:

Return code	label
6	Load-module not found in the library
A	Not standard

EXECUTION JCL

```

//$PRFJ.D99 JOB ($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 BVPINSL
/*

```

Installation of the Development Database

Before being installed, a Development Database must be first declared in the Administration Database.

You do so via the Administrator workbench. (refer to chapter 'Installation of Client Components', subchapter 'Administrator/Developer workbench').

NOTE

The BVAP test Database, which is delivered at installation, is already declared in the Administration Database.

CICS Update

Development database components

I00CSD MODULE: '\$prfj.I0' JOB

bbbb=DATABASE, code of the development Database, transaction code and prefixes of its file codes selected by the user.

Files:

- bbbbAN: index file,
- bbbbAR: data file,
- bbbbAJ: transaction journal,
- bbbbAY: random data

Transaction: bbbb executes the current operations in the database (read-only, update).

NOTE

The option allowing the "Dynamic Backout" (JNLSYNCWrite and RECOVerY) is required for AN, AR, AJ, AY files. The number of Strings, Indexbuffers and Databuffers available is the minimum number required for the system.

EXECUTION JCL

```

//$PRFJ.I0 JOB ($CCPT),'DEVPT DFHCSDUP',CLASS=$CLASSJ,
//      MSGCLASS=$MSGCL
/******

```

```

// * VISUALAGE PACBASE *
// *
// *          INSTALLATION - CICS/CSO *
// * CICS: CSO BATCH UPDATE FOR ONE DEVELOPMENT DATABASE *
// *****
//DFHCSDUP EXEC PGM=DFHCSDUP
//STEPLIB DD DSN=$CSO,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//DFHCSD DD DSN=$DFHCSD,DISP=SHR
//SYSIN DD *
*****
*          DEVELOPMENT DATABASE FILES *
*****
DEFINE FILE($BASE.AN) GROUP($GROUF)
DESCRIPTION(DEVELOPMENT DATABASE INDEX)
DSNAME($INDUV..$BASE.AN)
STRINGS(2)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3) INDEXBUFFERS(2)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE($BASE.AR) GROUP($GROUF)
DESCRIPTION(DEVELOPMENT DATABASE DATA)
DSNAME($INDUV..$BASE.AR)
STRINGS(2)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(3)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE($BASE.AJ) GROUP($GROUF)
DESCRIPTION(DEVELOPMENT DATABASE JOURNAL)
DSNAME($INDUV..$BASE.AJ)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(2)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
DEFINE FILE($BASE.AY) GROUP($GROUF)
DESCRIPTION(DEVELOPMENT DATABASE EXTEND)
DSNAME($INDUV..$BASE.AY)
STRINGS(1)
STATUS (ENABLED) OPENTIME(STARTUP)
DATABUFFERS(2)
RECORDFORMAT(F)
ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)
RECOVERY(BACKOUTONLY)
*****
*          DEVELOPMENT DATABASE TRANSACTION *
*****
DEFINE TRANSACTION($BASE) GROUP($GROUF)
DESCRIPTION(DEVELOPMENT $BASE TRANSACTION) PROGRAM(BVPR000)
//

```

Allocation and Loading of Database Parameters

I01SY MODULE: '\$prfj.I1' JOB

NOTE: This PDS contains the definition of the Database files. A default size is specified for the test database supplied at installation. As the database is intended to grow in size, you are advised to modify the default value.

Step	Program	Comments
STEP1	IDCAMS	DELETE of PDS
STEP2	IEFBR14	allocation

EXECUTION JCL

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

I02SY MODULE: '\$prfj.I2' JOB

CAUTION

Replace :/ with ./ before submitting the job.

Step	Program	Comments
STEP1	IEBUPDTE	loading

EXECUTION JCL

```
===FRM TYPE=DATA
//$PRFJ.I2 JOB ($CCPT),'PAC I02SY',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - I02SY *
//* LOADING OF THE PARAMETER PDS *
//* .STEP1 : LOADING PARAMETERS FOR ONE DEVELOPMENT 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 DEVELOPMENT DATA BASE : *
//* ADAPT THE SIZES SPECIFIED IN THE 'DEFINE' STATEMENTS *
//* TO YOUR REQUIREMENTS. *
//*****
//*
//STEP1 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$INDUV..$BASE.SY,DISP=SHR
//SYSIN DD DATA,DLM='PP'
:/ ADD NAME=DF$BASE.AN
DELETE ($INDUV..$BASE.AN) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.AN) -
                SHR (2) RUS KEYS (49,0) -
                VOL ($VOLUV) -
                CYL (20 1) -
                RECSZ (59,59) ) -
INDEX ( NAME ($INDUV..$BASE.AN.I) -
        CISZ (4096) ) -
DATA ( NAME ($INDUV..$BASE.AN.D) -
        FSPC (10,5) -
        CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$BASE.AR
DELETE ($INDUV..$BASE.AR) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.AR) -
                SHR (2) RUS NUMBERED -
                VOL ($VOLUV) -
                CYL (20 1) -
                RECSZ (144,144) ) -
DATA ( NAME ($INDUV..$BASE.AR.D) -
        CISZ (4096) ) /*: CATALOG ($VCAT) */
:/ ADD NAME=DF$BASE.AY
DELETE ($INDUV..$BASE.AY) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.AY) -
```

```

                SHR (2)    RUS    NUMBERED    -
                VOL ($VOLUV)                    -
                CYL (5 1)                        -
                RECSZ (1018,1018) )              -
DATA    ( NAME ($INDUV..$BASE.AY.D)            -
CISZ (4096) )    /*: CATALOG ($VCAT) */
:/      ADD NAME=DF$BASE.AJ
DELETE ($INDUV..$BASE.AJ) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.AJ)        -
                SHR (2)    RUS    NUMBERED    -
                VOL ($VOLUV)                    -
                CYL (1 1)                        -
                RECSZ (170,170) )              -
DATA    ( NAME ($INDUV..$BASE.AJ.D)            -
CISZ (4096) )    /*: CATALOG ($VCAT) */
:/      ADD NAME=DL$BASE.JT
DELETE ($INDUN..$BASE.JT)
:/      ADD NAME=DL$BASE.TJ
DELETE ($INDUN..$BASE.TJ)
:/      ADD NAME=DF$BASE.FP
DELETE ($INDUV.&USER.$BASE.FP) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV.&USER.$BASE.FP)    -
                SHR (2)    RUS    KEYS (33,0)  -
                VOL ($VOLUV)                    -
                CYL (1 1)                        -
                RECSZ (33,33) )                -
INDEX  ( NAME ($INDUV.&USER.$BASE.FP.I)        -
CISZ (4096) )    -
DATA    ( NAME ($INDUV.&USER.$BASE.FP.D)        -
                FSPC (10,5)                    -
CISZ (4096) )    /*: CATALOG ($VCAT) */
:/      ADD NAME=DL$BASE.QJ
DELETE ($INDUV..$BASE.QJ)
:/      ADD NAME=DF$BASE.QJ
DELETE ($INDUV..$BASE.QJ) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.QJ)        -
                SHR (2)    RUS    NUMBERED    -
                VOL ($VOLUV)                    -
                CYL (4 1)                        -
                RECSZ (310,310) )              -
DATA    ( NAME ($INDUV..$BASE.QJ.D)            -
CISZ (4096) )    /*: CATALOG ($VCAT) */
:/      ADD NAME=DF$BASE.EM
DELETE ($INDUV..$BASE.EM) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$BASE.EM)        -
                SHR (2 3) RUS    KEYS (17,0)    -
                VOL ($VOLUV)                    -
                CYL (1 1)                        -
                RECSZ (90,90) )                -
INDEX  ( NAME ($INDUV..$BASE.EM.I)            -
CISZ (1024) )    -

```

```

          DATA      ( NAME ($INDUV..$BASE.EM.D)      -
                    FSPC (10,5)                    -
          CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DF$BASE.WY
DELETE ($INDUV..$BASE.WY) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDUV..$BASE.WY)           -
                SHR (2)      RUS      NUMBERED     -
                VOL ($VOLUV)                                -
                CYL (4 1)                                  -
                RECSZ (310,310) )                   -
          DATA      ( NAME ($INDUV..$BASE.WY.D)      -
                    CISZ (4096) ) /*: CATALOG ($VCAT) */
:/      ADD NAME=DL$BASE.MY
DELETE ($INDUV..$BASE.MY) NONVSAM
:/      ADD NAME=LI$BASE.AJ
LISTCAT ENTRIES ($INDUV..$BASE.AJ) CLUSTER
PP
//

```

Initialization of Generation Data Groups

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

I03DEF MODULE: '\$prfj.I3' JOB

Definition of the database files

Step	Program	Comments
STEP1	IDCAMS	Delete/Define

EXECUTION JCL

```

//$PRFJ.I3 JOB ($CCPT),'PAC I03DEF',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
/** VISUALAGE PACBASE *
/** *
/**          INSTALLATION - I03DEF *
/** DEFINITION OF THE VSAM FILES FOR ONE DEVELOPMENT DATABASE *
/** STEP1 : DELETE/DEFINE OF THE FILES *
//*****
/**
//STEP1 EXEC PGM=IDCAMS
/**:STEPCAT DD DSN=$VCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDUN..$BASE.SY(DF$BASE.AN),DISP=SHR
// DD DSN=$INDUN..$BASE.SY(DF$BASE.AR),DISP=SHR
// DD DSN=$INDUN..$BASE.SY(DF$BASE.AY),DISP=SHR
// DD DSN=$INDUN..$BASE.SY(DF$BASE.AJ),DISP=SHR
/**
//

```

I03INI MODULE: '\$prfj.I3I' JOB

Allocation of generation files (GDG)

CAUTION

If the files are handled under SMS, delete the DD //GDGMOD lines from the IDCAMS steps before submitting the Job.

Step	Program	Comments
STEP1	IDCAMS	GDG of the PJ file
STEP2	IEBGENER	Initialization of the PJ file
STEP3	IDCAMS	GDG of the PC PD PY file
STEP4	IEBGENER	Initialization of the PC file
STEP5	IEBGENER	Initialization of the PD file
STEP6	IEBGENER	Initialization of the PY file

EXECUTION JCL

```
//$PRFJ.I3I JOB ($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" 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..$BASE.PJ,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=FB,LRECL=170,BLKSIZE=27880)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$BASE.PJ) LIMIT (3) SCR)
//*
//STEP2 EXEC PGM=IEBGENER
//SYSIN DD DUMMY
```

```

//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=170,BLKSIZE=170)
//SYSUT2 DD DSN=$INDUN..$BASE.PJ(+1),
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,1),
//      DCB=($DSCB,RECFM=FB,LRECL=170,BLKSIZE=27880)
//*
//STEP3 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$VCAT,DISP=SHR
//GDGMOD1 DD DSN=$INDUN..$BASE.PC,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//GDGMOD2 DD DSN=$INDUN..$BASE.PD,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//GDGMOD3 DD DSN=$INDUN..$BASE.PY,
//      DISP=(,KEEP,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,0),
//      DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$BASE.PC) LIMIT (3) SCR)
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$BASE.PD) LIMIT (3) SCR)
      DEFINE GENERATIONDATAGROUP -
          (NAME ($INDUN..$BASE.PY) LIMIT (3) SCR)
//*
//STEP4 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=$HLQ..SBVPP2(BVPPC),DISP=SHR
//SYSUT2 DD DSN=$INDUN..$BASE.PC(+1),
//      DISP=(,CATLG,DELETE),
//      UNIT=$UNITUN,
//      VOL=SER=$VOLUN,
//      SPACE=(TRK,(220,10),RLSE),
//      DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//*
//STEP5 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=VB,LRECL=1023,BLKSIZE=27998)
//SYSUT2 DD DSN=$INDUN..$BASE.PD(+1),
//      DISP=(,CATLG,DELETE),

```



```

//          UNIT=$UNITUN,
//          VOL=SER=$VOLUN,
//          SPACE=(TRK,(220,10),RLSE),
//          DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//*
//STEP6 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=VB,LRECL=1023,BLKSIZE=27998)
//SYSUT2 DD DSN=$INDUN..$BASE.PY(+1),
//          DISP=(,CATLG,DELETE),
//          UNIT=$UNITUN,
//          VOL=SER=$VOLUN,
//          SPACE=(TRK,(220,10),RLSE),
//          DCB=($DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//

```

Loading of the Test Database

I04REST MODULE: '\$prfj.I4' JOB

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

To install the test database you are provided with, run the JCL and do not add any change.

To install a database different from the one you are provided with, see the 'Administrator's Procedures' manual. You will find details on the REST procedure.

In this case, the database to be restored must have been declared in the administration Database.

If the version of your database is previous to 3.0, see in the 'Database Retrieval' chapter, the sub-chapter dedicated to the retrieval of user parameters.

EXECUTION JCL

```

//$PRFJ.I4 JOB ($CCPT),'PAC I04REST',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* * *
//* INSTALLATION - I04REST *
//* CREATION OF THE DEVELOPMENT TEST DATABASE *
//* INDICATE THE LANGAGE CODE OF DATABASE ON Y LINE COL 10-11 *
//*****

```

```
//TESTREST EXEC BVPREST
*ADMIN ADMIN
Y04000 EN
//
```

Loading of the Development Model

I05META MODULE: '\$prfj.I5' JOB

This JCL must be submitted at the first installation and at each re-installation of Development Database.

It is used to run the VINS procedure and to install the Development Model.

EXECUTION JCL

```
//$PRFJ.I5 JOB ($CCPT),'PAC I05META',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* * *
//* - DEVELOPMENT DATABASE - *
//* MODEL INSTALLATION *
//* INDICATE THE FILE NECESSARY FOR REOR PROCEDURE *
//*****
//VINS EXEC BVPVINS,FDIC='$HLQ..SBVPF8(BVPMETBA)',
// USER=ADMIN,BASE=$BASE
*ADMIN ADMIN *** VINS
/*
//*VINS.PAC7MR DD DSN=REORFILE
```

Initialization of the QJ archive file

I08INQJ MODULE: '\$prfj.I8' JOB

This JCL should be executed only at the first installation.

It defines and then loads the QJ 'VisualAge Pacbase interface and configuration management archival journal'.

Step	Program	Comments
STEP1	IDCAMS	DELETE DEFINE QJ
STEP2	PTUIGU	Initialization of QJ

EXECUTION JCL

```
//$PRFJ.I8 JOB ($CCPT),'PAC I08INQJ',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****
//* VISUALAGE PACBASE *
//* * *
```

```

//*          INSTALLATION - I08INQJ          *
//*          - INITIALIZATION OF USER FILE QJ - *
//*          *                               *
//*          EXECUTE THIS JOB ONLY FOR FIRST INSTALLATION >= V300 *
//*          *                               *
//*****
//INQJ      EXEC  BVPINQJ,BASE=$BASE

```

Complement - Pac/Impact

I20GDG MODULE: '\$prfj.I20' JOB

This job creates the files, which are necessary to the impact analysis module.

CAUTION

If SMS is installed on site, delete the DD //GDGMOD lines from the steps GDGBJ and GDGBB before submitting the job.

Step	Program	Comments
INIFO1	BVPRMSYS	
INIFO2	IDCAMS	allocation of GDG for FH file
INIFO3	IEBGENER	initialization from scratch FO file
INIFR1	BVPRMSYS	
INIFR2	IDCAMS	allocation of GDG for FR file
INIFR3	IEBGENER	initialization from scratch of FR file
INIFQ1	BVPRMSYS	
INIFQ2	IDCAMS	allocation of GDG for FQ file
INIFQ3	IEBGENER	initialization from scratch of FQ file
INIFH1	BVPRMSYS	
INIFH2	IDCAMS	allocation of GDG for FH file
INIFH3	IEBGENER	initialization from scratch of FH file

These files are described in chapter 'Components', subchapter 'Development Database', Section 'Pac/Impact'.

EXECUTION JCL

```

//$PRFJ.I20 JOB ($CCPT),'PAC I05GDG',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* * *
//*          - IMPACT ANALYSIS - *
//*          INSTALLATION - I05GDG *
//*          BUILDING OF INDEX DATA-GROUP FOR "FH" "FO" "FQ" "FR" FILES *

```

```

//*                                                                 *
//*  ->NOTE                                                                 *
//*  ----                                                                 *
//*  IF "SMS" IS INSTALLED DELETE //GDGMOD DD STATEMENTS          *
/******
//BVPGDG  PROC BASE=$BASE,                CODE OF VAPAC DATABASE
//        USER=TEST,                    PACKAGE CODE FOR IMPACT ANALYSIS
//        INDUN='$INDUN',                INDEX OF NON-VSAM USER FILES
//*:     VSAMCAT='$VCAT',                USER VSAM CATALOG
//*:     SYSTCAT='$SCAT',                SYSTEM VSAM CATALOG
//        STEPLIB='$HLQ..SBVPMBR8',     LIBRARY OF LOAD-MODULES
//        OUT=$OUT,                      OUTPUT CLASS
//        DSCB='$DSCB',                  DSCB MODEL FILE
//        VOLS='SER=$VOLUN',             RESULTS FILE VOLUME
//        UNITS=$UNITUN,                 RESULTS FILE UNIT
//        UWK=$UWK                       WORK UNIT
/******
//INIF01 EXEC PGM=BVPRMSYS,PARM='&INDUN.&USER.&BASE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//        DD DSN=$BCOB,DISP=SHR
//SYSOUT  DD SYSOUT=&OUT
//SYSABOUT DD SYSOUT=&OUT
//PACRIN  DD DDNAME=SYSIN
//PACROU DD DSN=&DFFO,DISP=(,PASS),UNIT=&UWK,SPACE=(TRK,1),
//        DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//INIF02 EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VCAT,DISP=SHR
//GDGMOD  DD DSN=&INDUN.&USER.&BASE.FO,
//        DISP=(,KEEP,DELETE),
//        UNIT=&UNITS,
//        VOL=&VOLS,
//        SPACE=(TRK,0),
//        DCB=(&DSCB,RECFM=FB,LRECL=266,BLKSIZE=26600)
//SYSPRINT DD SYSOUT=&OUT
//SYSIN   DD DSN=&&DFFO,DISP=(OLD,DELETE)
//INIF03 EXEC PGM=IEBGENER
//*-----
//SYSIN   DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1  DD DUMMY,DCB=(RECFM=FB,LRECL=266,BLKSIZE=266)
//SYSUT2  DD DSN=&INDUN.&USER.&BASE.FO(+1),
//        DISP=(,CATLG,DELETE),
//        UNIT=&UNITS,
//        VOL=&VOLS,
//        SPACE=(TRK,1),
//        DCB=(&DSCB,RECFM=FB,LRECL=266,BLKSIZE=26600)
//*
//INIFR1 EXEC PGM=BVPRMSYS,PARM='&INDUN.&USER.&BASE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//        DD DSN=$BCOB,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..&BASE.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
//*-----
//SYSIN DD DUMMY
//SYSPRINT DD DUMMY
//SYSUT1 DD DUMMY,DCB=(RECFM=FB,LRECL=72,BLKSIZE=72)
//SYSUT2 DD DSN=&INDUN..&USER..&BASE.FR(+1),
//          DISP=(,CATLG,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,
//          SPACE=(TRK,1),
//          DCB=(&DSCB,RECFM=FB,LRECL=72,BLKSIZE=21600)
//*
//INIFQ1 EXEC PGM=BVPRMSYS,PARM='&INDUN..&USER..&BASE '
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,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
//*-----
/*:STEPCAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER..&BASE.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..&BASE.FQ(+1),
//          DISP=(,CATLG,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,

```

```

//          SPACE=(TRK,1),
//          DCB=(&DSCB,RECFM=FB,LRECL=100,BLKSIZE=21600)
//*
//INIFH1 EXEC PGM=BVPRMSYS,PARM='&INDUN..&USER..&BASE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,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
//*-----
//*:STEPCAT DD DSN=&VCAT,DISP=SHR
//GDGMOD DD DSN=&INDUN..&USER..&BASE.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..&BASE.FH(+1),
//          DISP=(,CATLG,DELETE),
//          UNIT=&UNITS,
//          VOL=&VOLS,
//          SPACE=(TRK,1),
//          DCB=(&DSCB,RECFM=FB,LRECL=160,BLKSIZE=24000)
//*
// PEND
//GDG EXEC BVPGDG
//INIF01.PACRIN DD *
//          DEFINE GENERATIONDATAGROUP -
//                (NAME (&USERFO) LIMIT (3) SCR)
//*
//INIFR1.PACRIN DD *
//          DEFINE GENERATIONDATAGROUP -
//                (NAME (&USERFR) LIMIT (3) SCR)
//*
//INIFQ1.PACRIN DD *
//          DEFINE GENERATIONDATAGROUP -
//                (NAME (&USERFQ) LIMIT (3) SCR)
//*
//INIFH1.PACRIN DD *
//          DEFINE GENERATIONDATAGROUP -
//                (NAME (&USERFH) LIMIT (3) SCR)
//*
//

```

Chapter 4. Installation/Re-installation of Client Components

Things to Know Before Installing

- To install the VisualAge Pacbase Client components on a Windows workstation, you must have an Administrator profile on that Workstation.
- VA Pac Client components are installed via InstallShield for Windows Installer (ISWi).
If Windows Installer is not installed on the workstation, it will be installed automatically.
- You also need Microsoft Windows Script, version 5.1 or higher. You can download it from the following URL:
www.microsoft.com/msdownload/vbscript/scripting.asp
- Both Administrator & Developer workbench and eBusiness Tools components require, for their online help, that Netscape or Internet Explorer 5.5 be installed.
- The installation of a Client component does not require the prior installation on the server of the VA Pac Database(s) to which it will connect. However, the code of each VA Pac Database you indicate when you install a Client Component will have to be strictly reused when these Databases are installed at the server level.
- By default, the root directory of all the VisualAge Pacbase Client components is:

C:\Program Files\IBM\VisualAge Pacbase\

NOTE: The directories located under this root can be modified only once, at the beginning, i.e. when the first component is installed.

The other components will necessarily be installed under this root (whether it has been modified or not).

However, for the installation of a later version of a component the installer will propose:

- either a refresh under this root,
- or a new root, which cannot be modified, built from the previous root. The name of its last directory will be numerically incremented.

For example if you did not modify the default root upon the initial installation, the root of the first re-installation will be:

C:\Program Files\IBM\VisualAge Pacbase_1\

And the root of the second re-installation will be:

C:\Program Files\IBM\VisualAge Pacbase_2\

Fundamentals of VA Pac Client-Server Communication

FOREWORD: The following lines present the principles of communication between the Client components and the VisualAge Pacbase server. These lines contain important information essential to the choice of communication type and the parameterization of the associated middleware. This information will also be useful for future installations (other Client components or new versions of already installed components).

AVAILABLE COMMUNICATION TYPES

- If the VisualAge Pacbase server runs on Windows or UNIX, the VAP Socket protocol must be used.
- If it runs on MVS/CICS, you can either use the MVS CICS Socket or the MVS CICS CPI-C, depending on which protocol is used at the server level (see the Installation of Server Environment chapter).
- If it runs on MVS/IMS, you can either use the MVS IMS Connect Socket or the MVS IMS CPI-C, depending on which protocol is used at the server level (see the Installation of Server Environment chapter)

NOTE: With MVS CICS CPI-C or MVS IMS CPIC-C, you must install and configure this protocol on the (or all) workstation(s) where the VisualAge Pacbase Middleware is installed.

For more information on this configuration, see subchapter 'Additional Information', section 'How to configure the MVS CICS/IMS CPI-C protocol'.

THE MIDDLEWARE

The middleware must always be installed on each Developer workstation. This installation starts automatically during the first installation under a given root of one of the following Client components: Administrator and Developer workbench, VisualAge Pacbase Workstation, eBusiness Tools and Pacbase Web Connection. For the latter, this installation is automatically launched if the Context Server option is selected.

The middleware installed on each Developer workstation then ensures direct communication between the Client component(s) and the Server.

However you can also choose a communication via a gateway.

This gateway performs a centralized and optimized management of server access.

In this context, you must also install the middleware on an intermediate server by selecting the Middleware item in the list of Client components (see corresponding subchapter).

Client components then communicate via a gateway (the VisualAge Pacbase Gateway) which runs on this intermediate server.

This option is not available with the Pacbase Web Connection component.

COMMUNICATION FILES

For the Administrator & Developer workbench and the VisualAge Pacbase WorkStation, the parameterization of the communication is made in two files: the bases.ini and vaplocat.ini. files.

The vaplocat.ini file is also used by the eBusiness Tools component.

These files are automatically created and are located in a directory named 'common'.

A reinstallation does not affect the bases.ini and vaplocat.ini files. A base_new.ini file is created only as a reference. It contains the most recent version of this file.

IMPORTANT: To add/delete VisualAge Pacbase Databases, or modify parameters related to the communication, you will have to modify these files.

For details on how data is structured within both files, see the end of this chapter (Updating communication parameters).

THE BASES.INI FILE

The bases.ini file is found on each Developer workstation, in the 'common' sub-directory of the installation root directory.

This file contains the list of accessible VisualAge Pacbase Databases. Each Database is associated with a location.

Several Databases can be associated with the same location. The locations are defined in the other file, the vaplocat.ini file.

THE VAPLOCAT.INI FILE

- When communication is direct, the vaplocat.ini file used is located on each Developer workstation.
- When communication is via a gateway, the vaplocat.ini file used is located on the intermediate server.

In both cases this file is located in the 'common' sub-directory of the installation root directory.

The location(s) is(are) described in this file.

A location :

- identifies the protocol used to access the VisualAge Pacbase server,
- gives the physical addresses of the server for this protocol,
- defines the communication parameters required for the operation of this protocol.

Installation Startup

Insert the installation CD.

The execution of setup.exe launches the graphical interface of Wizard InstallShield which will guide you through the installation.

The first panel displays the text of the Java runtime licence. You agree with the terms of the licence ; the next panel then asks for your identification (Name and Organization).

NOTE: All the VisualAge Pacbase Client components are installed in a shared use mode on the workstation.

Then the list of the VisualAge Pacbase Client components is displayed. Choose the Client component you want to install.

The continuation of the installation is described in sub-chapters dedicated to each component.

Administrator & Developer workbench

The root used for this installation depends on its context. For complete details, refer to this chapter's first page.

In the next panel, select one or more elements to install:

- Administrator workbench

IMPORTANT: Installing the Administrator workbench on at least one workstation is **REQUIRED** as it will allow for the creation of the site's VA Pac Database(s), Libraries, Profiles, users, etc.

- Developer workbench

Developer workbench includes the following modules:

- Batch module,
- eBusiness module and three eBusiness tools:
 - Proxy Generator,
 - Location Editor,
 - Services Test Facility.

NOTE: These tools are installed following the installation of the rest of the eBusiness module.

- Rational Rose Bridge.

In the next panel, you indicate the communication mode (direct communication or gateway).

NOTE: IMPORTANT information on communication issues are given at the beginning of this chapter.

This panel does not appear if you have already installed Administrator & Developer workbench or the VA Pac WorkStation under the same root.

- If you choose the direct communication option, the middleware installation script will automatically start once the installation of the workbench is finished. It will ask you to specify a number of communication parameters. For complete details on this part of the installation, refer to the Middleware subchapter.
- If you choose the gateway option, enter the IP address of the gateway here. The installation of the middleware on the Developer workstation - also necessary in this context - will then start automatically after the installation of the workbench.

NOTE: You will also have to install the middleware and configure the communication on the intermediate server which hosts the gateway.

Next, in this same initial context, enter the (first) Database which the Administrator and Developer workbench will access.

To do this, a window enables you to enter:

1. The name of a Database, already installed at the server level or not. The names entered here will be displayed in the connection smartguide, thus showing users which Databases they can connect to. The name given to

each Database should therefore be clear enough to be easily identified in the list of Databases proposed by the connection smartguide.

2. The Database logical code.

Maximum length: 4 characters.

If the Database is not installed yet at the server level, please keep this code in mind: it will have to be used again upon this installation. The codes entered here will also be displayed in the connection smartguide.

NOTE: The Database specifically dedicated to the site administration is automatically created. Its logical code is the '****' reserved code.

3. The location name

Maximum length: 20 characters.

Default: Location-1

More than one Database may be associated with one location.

4. Finally, specify the user authentication mode at connection. Refer to the Database Administrator to ensure authentication measures at the server level are imposed at the workbench level. You select the mode via two check boxes.

VAPac: The user will have to enter his/her code and password to connect to the VA Pac Database.

Middleware: The user will have to enter his/her code and password to connect to the host system (in the two fields displayed under "Middleware references" in the connection smartguide).

If only the Middleware box is selected, VA Pac authentication is performed by RACF (or equivalent).

If both boxes are selected, the user will have to enter his/her code and password to connect to the host system and to the Database.

In this way, you have defined the access to a first VA Pac Database. The installation script then allows you to define communication and connection to as many other Databases as necessary.

The actual installation can then start ; press the [Install] button.

NOTE: This installation is followed by the installation of the eBusiness tools (if not already installed under the same root) and -- in the initial context defined above -- of the Middleware.

START-UP FILES

The start-up files are :

ws_admin.bat

ws_batch.bat

ws_eBusiness.bat

These files are to be found in the root directory of the Administrator and Developer workbench.

START MENU / PROGRAMS CHOICE

Once the installation is complete, the Windows desktop includes the VisualAge Pacbase Components section in the Start Menu/Programs choice, with the following sub-sections:

Administrator-Developer workbench
Administration
Batch
eBusiness

eBusiness Tools

eBUSINESS TOOLS INSTALLATION

The eBusiness Tools are:

- Proxy Generator
- Location Editor
- Services Test Facility
- VisualAge Pacabse Connector

This installation allows the eBusiness Tools to be used independently of Developer workbench, without a connection to the VisualAge Pacbase server. eBusiness tools are installed as VisualAge Java features and tools. The specificity of VisualAge Pacbase Connector is to run in VisualAge Java only.

The root used for this installation depends on this installation's context. For complete details, refer to the first page of this chapter.

To start installation, click on the [INSTALL] button.

The Middleware component is automatically installed following the installation of the eBusiness Tools if it does not already exist under the root of the current installation. You will then have to specify some communication parameters.

For information on this part of the installation, see the Middleware subchapter.

The eBusiness Tools component can run via a gateway. In this case you will have to install the Middleware component and configure the communication at the level of the intermediate server which hosts the VisualAge Pacbase gateway.

NOTE: IMPORTANT information on communication issues is given at the beginning of this chapter.

The middleware installed in this context allows communication between the server and the generated proxies.

Communication parameters will have to be set by the developer with the Location Editor tool included in this installation.

START-UP FILES

The start-up files are :

- For the Proxy Generator:
vapgen.exe
- For the Location Editor:
vapLocationEditor.exe
- For the Services Test Facility:
vapServicesTestFacility.exe

These files are to be found in the eBusiness Tools root directory (EBusinessTools).

NOTE: VisualAge Pacbase Connector runs only as a tool in VisualAge Java.

START MENU / PROGRAMS CHOICE

Once the installation is over, the Windows desktop includes the VisualAge Pacbase Components section in its Start Menu/Programs choice, with the following sub-sections:

```
eBusinessTools
    Location Editor
    Proxy Generator
    Services test Facility
```

VisualAge Pacbase WorkStation

The root used for this installation depends on this installation's context. For complete details, refer to this chapter's first page.

The first panel invites you to select the language option of the VisualAge Pacbase WorkStation interface. The default language option is English.

In the following panel, you select the methodology to be implemented by the WorkStation.

NOTE: If you wish to install another methodology, you will have to repeat this installation process one more time.

If displayed, the "Local Install" option must be selected.

NOTE: The "sub-features" option is identical to the "feature" option.

In the next panel, select the elements to install:

- One or both of the following modules:
 - Pacdesign,
 - Pacbench.
- The connection mode:
 - The connected mode where a connection to the VisualAge Pacbase Repository is systematically performed.
 - The open connection option where the user has to choose between the connected or the local mode.

In the next panel, you indicate the communication mode (direct communication or communication via a gateway).

NOTE: IMPORTANT information on communication issues are given at the beginning of this chapter.

This panel does not appear if you have already installed Administrator & Developer workbench or the VA Pac WorkStation under the same root.

- If you choose the direct communication option, the middleware installation script will automatically start once the installation of the workstation is finished. It will require the configuration of communication parameters. For information on this part the installation, see the subchapter Middleware.
- If you choose the gateway option, enter the IP address of the gateway here. The installation of the middleware on the Developer workstation - also necessary in this context - will then start automatically after the installation of the WorkStation.

NOTE: You will also have to install the middleware and configure the communication on the intermediate server which hosts the gateway.

Next, in this same initial context, indicate the first Database which the VisualAge Pacbase WorkStation will access.

To do this, a panel enables you to enter:

1. The name of a Database, already installed at the server level or not.

The names entered here will be displayed in the connection smartguide, thus showing users which Databases they can connect to.

The name given to each Database should therefore be clear enough to be easily identified in the list of Databases proposed by the connection smartguide.

NOTE: If you use a customized file for the parameters, enter, after the Database name, the name of this file, framed by the "<" and ">" signs.

Complete details on these parameters are given at the end of this subchapter.

2. The Database logical code.

Maximum length: 4 characters.

If the Database is not installed yet at the server level, please keep this code in mind: it will have to be used again upon this installation. The codes entered here will also be displayed in the connection smartguide.

The Database specifically dedicated to the site administration is automatically created. Its logical code is the '****' reserved code.

NOTE: A logical code must be unique for a given location (see next item 3.)

3. The location name

Maximum length: 20 characters.

Default: Location-1

More than one Database may be associated with one location.

4. Finally, specify the user authentication mode at connection. Refer to the Database Administrator to ensure authentication measures at the server level are imposed at the WorkStation level.

You select the mode via two check boxes.

VAPac : indicates that the user will have to enter his/her code and password to connect to the VisualAge Pacbase Database.

Middleware : indicates that the user will have to enter his/her code and password in the Middleware identification box to connect to the host system. If only the Middleware box is selected, VA Pac authentication is performed by RACF(or equivalent).

If you check both boxes, the user will have to enter his/her code and password to connect to the host system and to the Database.

In this way, you have defined the access to a first VA Pac Database. The installation script then allows you to define communication and connection to as many other Databases as necessary.

The actual installation can then start ; press the [Install] button.

NOTE: This installation -- in the particular context defined below -- is automatically followed by the middleware installation.

START-UP FILE

The start-up file is :

pexec.exe

This file is to be found in the VisualAge Pacbase WorkStation root directory (SPAC).

START MENU / PROGRAMS CHOICE

Once the installation is completed, your Windows desktop includes the VisualAge Pacbase Components section in its Menu Start/Programs choice, with the following sub-sections:

WorkStation

 WorkStation

 WorkStation News

 <methodology> News

INSTALLATION PARAMETERS FILE

A number of the installation parameters of the VA Pac WorkStation are located in the Pacbase.dat file.

The WorkStation installation procedure automatically creates this file in the \SPAC\NNNL directory where "NNN" indicates the version and "L" the language code of the version installed.

The Pacbase.dat file, which necessarily conforms to the most recent installation, is therefore used by default when the WorkStation is started up.

However you can create one or more parameter files. This can be useful if more than one methodology is installed on a workstation, which is rather rare. It will then be easier to change the methodology when reconnecting.

The choice of file name is open but must conform to DOS file standard. The .dat extension is recommended.

These DOS files should resemble the Pacbase.dat file and should be stored in the same directory as this file.

When the VA PAc WorkStation is reinstalled, the *.dat files you created will not be deleted.

DESCRIPTION OF THE PARAMETERS FILE

Each of the lines in this file has the following structure:

- a three-digit identifier in positions 1 to 3
- the parameter label, whose position is unfixed
- the parameter value, between brackets ([and]), whose position is also unfixed

The following is an example of a PACBASE.DAT file:

```
001 Station Version          [300F]
002 Server                   [PACBASE]
003 Communication Manager    [MWCOM]
004 Communication Parameters [MWCOM]
005 System                   [WINDOWS]
006 Method                   [MER]
007 EXE disk                 [C]
008 EXE disk(default)       [C]
009 System Data Disk        [C]
010 User Data Disk          [C]
011 Connection execution mode [E]
```

The Pacbase.dat file should not be destroyed.

The possible values for the Methodology parameter are:

Parameter value	Methodology name
MER	MERISE
DON	YSM
FAA	IFW
ADM	SSADM (in English only)
OMT	OMT

WARNING: The parameters 001 to 005 and 011 cannot be modified.

Pacbase Web Connection

INSTALLATION PREREQUISITE

For Pacbase Web Connection, you need to install a PERL interpreter (version 5.0 minimum) that you can download from the following URL:

<http://www.perl.com>

To install the interpreter, follow the indications given below.

INSTALLATION

The choice of the installation root for Pacbase Web Connection depends on the installation context. For more details, consult the first page of this chapter.

Then, you install the context server or Pacbase Web Generator or both.

You can install the server context and the generator on two different workstations or on the same developer workstation from where the html pages will be generated.

Furthermore, the PERL interpreter must be installed on the workstation that will be used to launch the HTTP server. The PERL installer will handle the script that sets up the connection between the HTTP server and the context server.

NOTE: The HTTP server and the context server can be installed on different workstations.

The installer asks you to enter the name of the directory where the PERL interpreter is installed.

If PERL is not installed yet, the installer creates the corresponding directory, called Pacwebperl. A BIN sub-directory necessarily contains the cgicgi.pl and cgi-lib.pl files.

NOTE: The actual installation can now start ; press the [Install] button.

The installation of the Context Server is automatically followed by the installation of the Middleware component except if it is already installed under the root of the current installation. When installing the Middleware component, you must specify certain communication parameters.

For information on this part of the installation, see sub-chapter Middleware.

NOTE: IMPORTANT information concerning communication is given at the beginning of the chapter.

EXECUTION FILE

The Pacbase Web Connection execution file is:

Pacweb.exe

This file is located in the PacWeb directory under the root where Pacbase Web Connection is installed.

INSTALLATION OF THE CONTEXT SERVER AS AN NT SERVICE

The context server can be installed under Windows/NT as an NT service. In this case, the context server starts automatically or can be started via the dialog box which is used for all services.

To install the context server as a service, enter the following command from the context server installation directory:

```
pacweb -i [<socket nb>]
```

The socket number is optional. The default value is 2345.

At installation time, the context server is not started up automatically ; it must be done by pressing the start button in the services dialog box.

When the computer boots up, it is automatically executed.

To uninstall the service, enter the following command:

```
pacweb -d [<socket nb>]
```

These commands used to install or uninstall services can be executed only by a user who is authorized to open a session as a service.

Middleware

The specific installation of the Middleware component on a dedicated machine (intermediate server) is necessary only when a communication via a gateway is used.

In fact, the Middleware component is automatically installed, immediately after the first installation (under a given root) of one of the other Client components.

NOTE: For the Pacbase Web Connection component, the installation of the Context Server sub-component starts the installation of the Middleware.

The root used for an installation depends on the context of that installation. For more information, see the first page of this chapter.

To use the Administrator and Developer workbench or the VA Pac WorkStation, the location parameters of your VisualAge Pacbase Databases must always be specified.

NOTE: IMPORTANT information related to the communication is given in the beginning of this chapter.

- If communication is provided via the VisualAge Pacbase Gateway, installation of the Middleware on this intermediate server requires the definition of the location necessary for the first VA Pac Database.

NOTE: In the New location field, enter a name for each location.

WARNING: If there is more than one location to define, either for the same Database or to manage more than one Database, you must define these extra locations directly in the vaplocat.ini file.

For more information on updating this file, see subchapter 'Complementary Information', section 'Updating Communication Parameters'.

- If communication is direct, the locations are automatically displayed, as they have been predefined in the first phase of the Administrator & Developer workbench or the VA Pac WorkStation installation.

Next, whatever the Client component concerned, you have to specify a certain number of different parameters, depending on the protocol used.

- If communication is via the VisualAge Pacbase gateway, these parameters will be requested during the installation of the Middleware on this intermediate server.
- If communication is direct, these parameters will be requested during the automatic installation of the Middleware.

LIST OF PARAMETERS

- VAP SOCKET

IP address: IP address and port used by the VA Pac server

- MVS CICS SOCKET

IP address: IP address and port used by the VA Pac server

Transaction code: Code of the CICS transaction of the VA Pac Communication Monitor.

Code Page: Value identifying the coding of characters used by the VA Pac server. 1140 (US EBCDIC) or 1146 (UK EBCDIC)

- MVS CICS/IMS CPI-C

Destination-id entry: BVPSCPI (default value). If you modify this value, it must be the same as the value entered in the Symbolic destination name, a parameter included in the configuration of this communication protocol.

Protocol code page: Value identifying the coding of characters used by the VA Pac server. 1140 (US EBCDIC) or 1146 (UK EBCDIC)

- MVS IMS Connect

IP address: IP address and port used by the VA Pac server.

Transaction code : IMS transaction code of the VA Pac Communications Monitor.

Data Store : Name of the link to IMS defined in IMS Connect (IMS Data Store ID)

RACF group : Name of the RACF group for IMS Connect.

You can now start the installation; press the [Install] button.

Additional Information

How to Configure the MVS CICS/IMS CPI-C Protocol

The following text gives you details on the configuration specific to the use of VisualAge Pacbase Client components.

The prerequisites are:

- IBM Personal Communications 4.2
- Microsoft SNA Server 3.0A
- Service Pack 2 must be installed for APPC corrections.

The protocol (CPI-C/APPC LU6.2) must be configured as follows:

- In the "Define CPI-C Side Information" window, type BVPSCPI in the "Symbolic destination name" field.

This code identifies the monitor which sets up the connection between the Client components and the VisualAge Pacbase server programs which use APPC.

NOTE: It is possible to type a value other than BVPSCPI, provided the Symbolic destination name value is the same as the MONITOR parameter value in the vaplocat.ini file.

Example of location in vaplocat.ini:

```
<MVS-DB2-CPIC>
COMM_TYPE=CPIC
MONITOR=BVPSCPI
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1140 (US EBCDIC) or 1146 (UK EBCDIC)
```

In the "TP name" field, type the CICS/IMS transaction code which is associated with the BVPSCPI communication monitor.

Editing Communication Parameters

The bases.ini File

You will need to update the bases.ini file to add or delete a Database, or to modify communication parameters.

By default this file's access path is:

C:\Program Files\IBM\VisualAge Pacbase\Common\

NOTE: All the parameters which may be present in the bases.ini file are not explained here. In fact, a number of these parameters allow finer middleware settings, particularly used by proxies (generated by the eBusiness Tools). These parameters are used separately from the bases.ini file and are documented in the Proxy Programming Interface manual.

This file's format meets the standards of Windows .ini files.

Each section in the bases.ini file defines a configuration allowing access to one VisualAge Pacbase Database. Each section's name must be framed by brackets [Section Name].

The name of each section will be presented to the user in the connection smartguide. In the displayed list of VA Pac Databases, the user picks the Database he/she wants to connect to. This is why section names need be very explicit. All the more so since you can manage several communication options for one VA Pac Database. To do so, define as many configurations/sections as needed for one Database, clearly differentiated from one another by their name.

NOTE: With the VA Pac WorkStation, you may use a personalized parameters file. To do so, enter -- after the VA Pac Database name -- this file's name framed by the "<" and ">" signs.

Complete details on these parameters are given above, at the end of the 'VisualAge Pacbase WorkStation' subchapter.

DESCRIPTION OF A SECTION'S CONTENTS

The parameters in each section are listed below. There one parameter per line:

- baseCode = code of the VisualAge Pacbase Database (required)
Maximum length: 4 characters

NOTE: Concerning the VA Pac WorkStation, this code must be unique in the bases.ini file for a given Location.

- signOn = indicator for the control of the user signon. This indicator is required and takes one of the three following values:
 - VAPac: indicates that the user will have to give his/her code and password only when he/she connects to the VisualAge Pacbase Database.
 - Middleware: indicates that the user will have to give his/her code and password only when he/she connects to the host. The connection to the VA Pac Database will be controlled by RACF (or equivalent).
 - VAPac Middleware: indicates that the user will have to give his/her code and password when he/she connects to the host and to the Database (default option).
- communicationAdapter = indicates the communication mode in use.
 - DIRECT: local middleware
 - GATEWAY: remote middleware (via the VisualAge Pacbase gateway)

The following parameters vary according to the chosen option.

PARAMETERS FOR DIRECT ADAPTER (LOCAL MIDDLEWARE)

- locationsFile = indicates the path and name of the file which contains the locations definitions.
Default: ..\common\vaplocat.ini

CAUTION: The default value of this parameter should not be modified.

- location = location name for the Database

Maximum length: 20 characters.

Default: Location-1

More than one Database can point to the same location.

REMINDER

A location identifies the communication protocol used to access the VisualAge Pacbase server and the physical address of this server for this protocol.

- traceFile = path and name of the file which will receive the trace of the middleware execution.
By default this file is automatically created (with timestamp) in the VapTrace sub-directory.
- traceLevel = trace level of the middleware execution. Its possible values are:
 - 0 : no trace
 - 1 : trace with errors (default)
 - 2 : standard trace, not detailed
 - 3 : trace for information

- 4 et + : trace for debug
- codePageFile = path and name of the file which contains the conversion table of the code pages.
Default: ..\middleware\CharConv.txt

PARAMETERS FOR GATEWAY ADAPTER (REMOTE MIDDLEWARE)

- host = name or IP address of the host where the VisualAge Pacbase gateway is installed.
Default: 127.0.0.1 for a local host
- port = value of the IP port where the gateway receives the client requests.
Default: 5647
- location = location name for the Database
Maximum length: 20 characters.
Default : Location-1
More than one Database can point to the same location.

REMINDER

A location identifies the communication protocol used to access the VisualAge Pacbase server and the physical address of this server for this protocol.

The vaplocat.ini File

You will have to update the vaplocat.ini file to add or delete a Database, or possibly modify other parameters described below.

By default, the path to this file is:

C:\Program Files\IBM\VisualAge Pacbase\Common\

NOTE: All parameters in the vaplocat.ini file are not explained here. In fact, certain parameters allow finer middleware settings, particularly used by proxies (generated by eBusiness Tools). In this context, these parameters are edited with the Location Editor tool and are therefore documented in its online help.

To add a VisualAge Pacbase Database, create a line on which you enter the location name between "<" and ">".

The maximum length of this name is 20 characters.

According to the protocol selected, you will have to choose different parameters (one per line):

- VAP SOCKET

- ```

<LocationName>
COMM_TYPE=SOCKET
MONITOR=BVPSCPI
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
IXO_ADDRESS=127.0.0.1 3000

```
- MVS CICS SOCKET

```

<LocationName>
COMM_TYPE=TCPMVS
MONITOR=BVPSSOC
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1140 (US) or 1146 (UK)
IXO_ADDRESS=127.0.0.1 3000
IXO_TRANSID=V303

```
  - MVS CICS/IMS CPI-C

```

<LocationName>
COMM_TYPE=CPIC
MONITOR=BVPSCPI
MESSAGE_LENGTH=8192
IXO_TIMEOUT=30
HOST_ENCODING=1147

```
  - IMS Connect

```

<NomLocalisation>
COMM_TYPE=TCPIMS
MONITOR=BVPSCPI
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1147
IXO_ADDRESS=127.0.0.1 3000
IXO_TRANSID=P300CPI
IXO_DATASTORE=IMSC
IXO_RACFGROUP=FR42

```

## DETAILS ON THE PARAMETERS

The following list is organised according to the alphabetical order of the parameters.

- COMM\_TYPE:

This parameter identifies the communication protocol in use.

The possible values are:

SOCKET: VA Pac Server under Windows or UNIX, with the use of TCP/IP.

TCPMVS: VA Pac Server under MVS/CICS or MVS/IMS, with the use of a TCP/IP listener.

CPIC: VA Pac Server under MVS/CICS, with the use of the CPI-C protocol.

TCPIMS: VA Pac Server under MVS/CICS, with the use of the IMS Connect protocol.

- **IXO\_ADDRESS:**  
IP address and port used by the VA Pac Server. The port number must correspond to the one indicated at the server configuration.
- **IXO\_DATASTORE:**  
Name of link to IMS defined in IMS Connect (IMS DataStore ID)
- **IXO\_RACFGROUP:**  
Name of RACF group for IMS Connect.
- **IXO\_TIMEOUT:**  
Maximum time required for a workstation to receive an answer from the server before indicating any communication error.  
This parameter is indicated in seconds. Its default value is 30.
- **IXO\_TRANSID:**  
CICS transaction code
- **HOST\_ENCODING:**  
Identifies the encoding of the characters used by the VisualAge Pacbase server.  
1140 (US EBCDIC) or 1146 (UK EBCDIC)
- **MESSAGE\_LENGTH:**  
This parameter's value must be 31744.
- **MONITOR:**  
Communication monitor code for VisualAge Pacbase, which is BVPSCPI, or BVPSSOC for MVS CICS SOCKET.

**NOTE:** For MVS CICS/IMS CPI\_C, you can however enter a value other than BVPSCPI, bearing in mind that the value of the MONITOR parameter must be in all cases the same as the one set in the Symbolic destination name, a parameter included in the communication protocol configuration.

---

## Uninstalling Client Components

To uninstall a Client component, use the Windows NT service "Add/Remove" Programs in the Configuration Panel.

You can also use the Installation CD and activate the "Remove" function.



---

## Chapter 5. Tests

---

### List of Utilities

The summary table below lists the management utilities of the Administration and Development Databases.

| JCL     | Description                                      |
|---------|--------------------------------------------------|
| JCLARAD | Archiving of the Administration Database journal |
| JCLSVAD | Saving of the Administration Database            |
| JCLROAD | Reorganization of the Administration Database    |
| JCLRSAD | Restoration of the Administration Database       |
| JCLARCH | Storage of the Development Database journal      |
| JCLSAVE | Saving of the Development Database               |
| JCLMLIB | Library management                               |
| JCLREOR | Reorganisation of the Development Database       |
| JCLREST | Restoration of the Development Database          |
| JCLUPDT | Batch update of the Development Database         |
| JCLGPRT | Generation print                                 |
| JCLEXLI | Library extraction                               |
| JCLEXPJ | Journal extraction                               |
| JCLEXTR | Entities extraction                              |
| JCLUXSR | sub-networks extraction                          |

---

### Installation Tests

The VA Pac Installation tests include the following operations:

- Generation-print on-line and batch update tests,
- Administration procedures tests,
- Extraction utility tests.

#### Generation-Print TP and Batch Update Tests

These tests consist of the following steps:

- On-line use tests:
  - Opening the test Database files in on-line mode.
  - Testing screen branching.

- Executing some updates.
- Batch updating tests:
  - Executing the 'JCLUPDT' JCL (UPDT procedure).
  - The Database files must be closed to on-line use.
- Test on generation and print of programs:
  - Executing the 'JCLGPRT' JCL (GPRT procedure).

### **Administration Database Procedures Tests**

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

- Archiving of the journal created during the use tests: execute the 'JCLARAD' JCL, which outputs a PK(1) file.
- Saving of the Administration Database: execute the 'JCLSVAD' JCL, which outputs a PE(1) file.
- Reorganization of the sequential backup, PE(1), of the Administration Database: execute the 'JCLROAD' JCL, which outputs a PE(2) file.
- Restoration of the Administration Database using the PK(1) archived transaction file and the PE(2) Database backup file: execute the 'JCLRSAD' JCL.

The Administration Database files must be closed to on-line use while these tests are being performed.

### **Development Database Procedures Tests**

The tests on the procedures of the Development Database include the following steps to be executed in this order:

- Archiving of the journal created during the use tests: execute the 'JCLARCH' JCL, which outputs a PJ(1) file.
- Direct backup of the Development Database: execute the 'JCLSAVE' JCL, which outputs a PC(1) file.
- Library management: add/delete a Library in the Development Database: execute the 'JCLMLIB' JCL, which outputs a PC(2) file.
- Reorganization of the sequential backup, PC(2), of the Development Database: execute the 'JCLREOR' JCL, which outputs a PC(3) file.
- Restoration of the Development Database using the PJ(1) archived transaction file and the PC(3) Database backup file: execute the 'JCLREST' JCL.

The Development Database files must be closed to on-line use while these tests are being performed.

It is advised to briefly test on-line operations again, after restoring and re-opening the Development Database files to make sure that the application runs properly.

## Extraction-Utility Tests

The purpose of these tests is to execute the Database extraction procedures.

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

- Extraction of a library as transactions: execute the 'JCLEXLI' JCL.
- Extraction of entities from a library: execute the 'JCLEXTR' JCL.
- Extraction of selected transactions and/or lists of transactions from the archived journal (PJ): execute the 'JCLEXPJ' JCL.

To run these tests, the development files can be open in on-line mode.

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





---

## Chapter 6. Re-installation of Server

A reinstallation of the system environment of the VisualAge Pacbase server is necessary in the case of corrections or enhancements to the version installed.

To install this version, download the cartridge in the dedicated PDS by using SMP/E and execute the JCL supplied if it is necessary.

This version is identified by a number and includes:

- An installation cartridge (or tape),
- The "program Directory for VA Pac" specific to SMP/E,
- The list of corrected anomalies,
- Instructions -- possibly included -- to complete this chapter.

Generally, only system files and program libraries are impacted by this version.

In any case, load-modules are updated by SMP/E. They are copied in hlq.SBVPMBR8 and hlq.SBVPMT8 PDS.

Your context may be :

Case 1: the installation JCLs have been kept,

Case 2: the installation JCLs must be regenerated for a standard reinstallation,

Case 3: the installation JCLs must be regenerated

for a non-standard reinstallation.

### CASE 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: renaming exit-users batch load-modules,
- 2) D06SKEL: \$prfj.D6 job: loading skeleton files,
- 3) D07AE0 : \$prfj.D7 job: loading error messages,

4) D08XMET: \$prfj.D8X job: installation of the administration model, (see the description in the appendix at the end of the manual).

5) I05META: \$prfj.I5 job: installation of development model extension. This job must be run for each re-installed base (see the description in the appendix at the end of the manual).

NOTE& If the \$prfj.D8X job report indicates that a re-organization is requested, you will have to run the following jobs:

- 1) JCLSVAD: \$prfj.SAD job: backup of the administration Database,
- 2) JCLROAD: \$prfj.OAD job: re-organization of the administration Database,
- 3) JCLARAD: \$prfj.AAD job: archiving of the administration Database journal,
- 4) JCLRSAD: \$prfj.RAD job: restoration of the administration Database.

If the \$prfj.I5 job report indicates that a re-organization is requested, you will have to run the following jobs:

- 1) JCLSAVE: \$prfj.SAV job: backup of the development Database,
- 2) JCLREOR: \$prfj.REO job: re-organization of the development Database,
- 3) JCLARCH: \$prfj.ARC job: archiving the development Database journal,
- 4) JCLREST: \$prfj.RES job: restoration of the development Database.

#### CASE 2: INSTALLATION JCLS MUST BE REGENERATED FOR A STANDARD REINSTALLATION

For detailed information, refer to chapter 'Server Installation', subchapter 'Server Installation Parameters'.

The re-generation of JCLs consists of executing the BVPMMJCL utility again with the parameters selected for the installation on-site, and adding the JCLs necessary to the re-installation process.

Check the resulting JCLs.

Proceed with the installation according to the steps described in CASE 1.

#### CASE 3: INSTALLATION JCLS MUST BE REGENERATED FOR A NON-STANDARD REINSTALLATION

For detailed information, refer to chapter 'Server Installation', subchapter 'Server Installation Parameters'.

The re-generation of JCLs consists in executing the BVPMMJCL utility again with the parameters selected for the installation on-site, and adding the JCL's necessary to the re-installation process. These JCL's are indicated in the note enclosed with the version tape.

Once the JCLs are completed, follow the instructions of case 1 (for a standard re-installation) and the note enclosed with the version cartridge (or tape).



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## Chapter 7. Retrieval

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### Retrieval of VisualAge Pacbase 2.0 and 2.5

#### Operations to be Performed

The installation of the 3.0 release requires, in the one hand, the retrieval of the AG (generation-print commands file), AE AP (user parameters files) and AB AC (PEI files) files in the new Administration Database, and on the other hand, the retrieval of the old Development Database.

#### SCREEN BRANCHING:

It consists of six steps:

1) Backup of all the old files required. You must execute the following procedures in the old version.

- SAVE: backup of the Development Database (PC),
- PARM: backup of the user parameters (PE),
- SVAG: backup of the generation-print commands (PG)
- SVPE: backup of the PEI environment (PP).

2) Installation of the 3.0 Administration Database

To install the Administration Database, execute the installation process up to the D07AE0 JCL.

This step creates the GN, GR, GY, GJ and GU files.

You must execute the following JCLs:

- creation of the Administration Database,
  - D08INGU: creation and initialization of GU user codes file,
  - D08INAD: creation and initialization of the Database backup file (PE file), and journal backup file (PK file),
  - D08RSAD: initialization of the Administration Database with installation data (enter the access key),
  - D08XMET: installation of the Administration Model (see the Appendix, at the end of the manual),
- re-organization of the Administration Database if it is mentioned in the execution report of the preceding job (prfjD8X).
  - JCLSVAD: backup of the Administration Database,

- JCLROAD: re-organization of the Administration Database,
- JCLARAD: initialization of the Administration Database journal file,
- JCLRSAD: restoration of the Administration Database,
- retrieval of the old Database data,
  - RPE250: retrieval of user parameters from the PE file which was generated during step 1,
  - JCLSVAD: backup of the Administration Database.

### 3) Retrieval of a Development Database.

To perform this step, the installation process of the Development Database(s) must be run through to the I03INI JCL.

It consists in executing the following JCLs:

- RPC250: retrieval and re-organization of the old Development Database from the backup of the old Database which was created during step 1.
- JCLREOR: re-organization of new Development Database,
- I04REST: restoration of the new Development Database from the backup obtained previously,
- I05META: installation of the new Database development Model (see the description at the end of the manual).

The execution of the following JCL's is optional and it is sometimes required for a better optimisation.

- JCLSAVE: backup of the new Development Database,
- JCLREOR: re-organization of new Development Database,
- JCLREST: restoration of the Development Database from the backup file resulting from the preceding re-organization procedure.

Steps 4, 5 and 6 are optional.

### 4) Retrieval of generation-print commands.

It involves executing the following JCL:

- RPG200: if retrieval of 2.0 AG file,
- RPG250: if retrieval of 2.5 AG file.

### 5) Retrieval of Pac/Transfer parameters (UV).

It involves in executing the following JCL's:

- RUV250: retrieval of the UV file data.

6) Retrieval of PEI files.

It involves executing the following JCL:

- RPP250: retrieval of the PP file data.

---

## Retrieval of User Parameters (PE25)

### PE25 - Introduction

#### PRINCIPLE

This procedure (PE25) retrieves the PE file resulting from the user parameters backup executed by the PARM procedure, to update the administration database.

#### EXECUTION CONDITIONS

The administration database files must be closed to on-line use.

#### PRINTED OUTPUT

This procedure prints a report which indicates the errors encountered.

#### RESULT

This procedure integrates the 2.0 or 2.5 user parameters in the administration database.

### PE25 - Input / Processing / Results

A '\*' line in which you indicate a user code and password.

An 'A' line in which you indicate the Administrator's code and name.

If the Administrator's code or name is not indicated, an error message is sent and the procedure cannot be executed.

The 'A' line has the following structure:

| Position | Length | Value    | Meaning              |
|----------|--------|----------|----------------------|
| 2        | 1      | 'A'      | Line code            |
| 3        | 8      | bbbbbbbb | Administrator's code |
| 11       | 36     |          | Administrator's name |

A 'B' line by database in which you indicate the characteristics of the development Databases which are to be managed in the new Administration Database. You must specify:

- the Database code: it is the logical code, which will be indicated upon the Database restoration.
- the Database name
  - the transaction code: it is used to connect to the Database in character mode. The \$BASE installation parameter is also used to code the file names.

If the Database code or name is not specified, an error message is sent and the procedure cannot be run.

The 'B' line has the following structure:

| Position | Length | Value | Meaning               |
|----------|--------|-------|-----------------------|
| 2        | 1      | 'B'   | Line code             |
| 3        | 4      | bbbb  | Logical Database name |
| 8        | 36     |       | Database name         |
| 43       | 4      | cccc  | Transaction code      |

## PE25 - Description of Steps

INPUT RECOGNITION: PTU001

PROCESSING OF USER PARAMETERS (PE): PTU920

| Code   | Physical name  | Type   | Label                                    |
|--------|----------------|--------|------------------------------------------|
| PAC7EN | &OLDPE         | Input  | User parameters, old version             |
| PAC7AE | &INDSV..BVP AE | Input  | Error messages                           |
| PAC7MB | &&PE25MB       | Input  | User input                               |
| PACGGR | &INDSV..BVPGR  | Input  | Administration Database data             |
| PACGGN | &INDSV..BVPGN  | Input  | Administration Database index            |
| PACGGU | &INDSV..BVPGU  | Entrée | Administration Database users            |
| PAC7GY | &&PACGY        | Output | User parameter transactions (length=310) |
| PAC7ET |                | Report | Error report                             |



TRANSACTION FORMATTING: PAF900

| Code   | Physical name | Type   | Label                                                                                                                                                                    |
|--------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDSV..BVPGR | Input  | Administration Database data                                                                                                                                             |
| PAC7AN | &INDSV..BVPGN | Input  | Administration Database index                                                                                                                                            |
| PAC7AE | &INDSV..BVPAE | Input  | Error labels                                                                                                                                                             |
| PACGGR | &INDSV..BVPGR | Input  | Administration Database data                                                                                                                                             |
| PACGGN | &INDSV..BVPGN | Input  | Administration Database index                                                                                                                                            |
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users                                                                                                                                            |
| PAC7GY | &&PACGY       | Input  | Update transactions                                                                                                                                                      |
| PAC7MV | &&PAC7MV      | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME |               | Output | Working file (length=372)                                                                                                                                                |
| PAC7MW |               | Output | Working file (length=170)                                                                                                                                                |
| PAC7MX |               | Output | Working file (length=743)                                                                                                                                                |
| PAC7MY |               | Output | Working file (length=743)                                                                                                                                                |

UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name | Type   | Label                                      |
|--------|---------------|--------|--------------------------------------------|
| PAC7AR | &INDSV..BVPGR | Output | Administration Database Data file          |
| PAC7AN | &INDSV..BVPGN | Output | Administration Database Index file         |
| PAC7AY | &INDSV..BVPGY | Output | Administration Database extension          |
| PAC7AJ | &INDSV..BVPGJ | Output | Administration Database journal            |
| PAC7AE | &INDSV..BVPAE | Input  | Error messages                             |
| PACGGN | &INDSV..BVPGN | Input  | Administration Database Index file         |
| PACGGR | &INDSV..BVPGR | Input  | Administration Database Data file          |
| PACGGY | &INDSV..BVPGY | Input  | Administration Database Extension          |
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users              |
| PAC7DC | &DSMS         | Input  | DSMS file of Development Database elements |
| PAC7ME | &&PAC7ME      | Input  | Work file                                  |
| PAC7MV | &&PAC7MV      | Input  | Update transactions                        |

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC7RB | DUMMY         | Output | UPDT erroneous transactions (length=80)        |
| PAC7RY | DUMMY         | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |               | Report | Update report (length=132)                     |
| PAC7IF |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## PE25 - Execution JCL

```

/** -----
/** VISUALAGE PACBASE
/**
/** -----
/** RETRIEVAL OF PE FILE
/**
/** -----
/**
//BVPPE25 PROC OUT=$OUT, OUTPUT CLASS
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// OLDPE=, DS NAME OF OLD PE
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(100,10),RLSE)' TRANSACTION SPACE
//*****
//INPUT EXEC PGM=BVPTU001
/**-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&PE25MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//VERIFY EXEC PGM=IDCAMS

```

```

/*-----
/*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
/*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU920 EXEC PGM=BVPTU920
/*-----
/*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
/*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7MB DD DSN=&&PE25MB,DISP=(OLD,DELETE)
//PAC7EN DD DSN=&OLDPE,DISP=SHR
//PAC7GY DD DSN=&&PACGY,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7ET DD SYSOUT=&OUT
//PAF900 EXEC PGM=BVPAF900,COND=(0,NE,PTU920)
/*-----
/*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
/*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR

```

```

//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGY,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA15 EXEC PGM=BVPACA15,
// COND=((0,NE,PTU920),(0,NE,PAF900))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT

```

---

## Retrieval of the Development Database (PC25)

### PC25 - Introduction

#### PRINCIPLE

This procedure (PC25) retrieves the PC file produced by the backup of the old development Database in a new PC file format.

#### EXECUTION CONDITIONS

None

#### PRINTED OUTPUT

This procedure prints a report which indicates the number of Manuals changed into Volumes, the warnings on User Entities, calls of Parameterized Input Aids and description of Reports (long data), the code of the new development Database and the number of records output by the PC file.

#### RESULT

The result of this procedure is a sequential image of the new development Database format. This new PC file must be used as input to the next required step: the re-organization step.

### PC25 - Notes on Data Retrieval

#### SPLITTING UP OF THE COMMENT DESCRIPTION (-G)

The comment description is split up into several descriptions.

- Comments  
They include the comments and the COBOL alias (-GC).

#### CAUTION

In the 2.0 or 2.5 release, if the type of documentation line was not adapted to the entity type (ex: a generation line in a Data Element), it will become a comment.

- Generation lines  
They include the G, P, V and Z line types (-GG).
- Generation parameters  
They include the O line type (-GO).
- Error messages management  
They include the C, D, F ,S ,T , U line types (-GE).

- Call of entities via Relations  
They include the R line type (-CR).
- Specificity of the Input Aid entity  
The type on the input aid description determines the type value on the definition, i.e. 'C' for comments, 'G' for generation parameters or 'O' for generation options. The input aid calls are accessible through -GC, -GG or -GO.

If there are several type values on the same description in the 2.0 or 2.5 release, an error message is displayed, and the error must be corrected manually.

There again, if the input aid call is wrongly 'Generated' or 'dialogue option', it will become a comment.

**IMPORTANT:** If in the 2.n release, a line with a type which is not a comment is overridden by a comment line, because of the -G splitting, this override is not transferred to the 3.0 release, it must be done manually in the new database.

#### DATA STRUCTURES TABLE TYPE

Data Structure with a table type (G, T, M, N) and a Logical View type (V) do not change. All other types (files...) become the Z type. The Report entity is no longer supported by the Data Structure, thus the J type no longer exists.

#### TRANSFORMATION OF U TYPE MANUALS

Manuals are replaced with volumes, their codes are completed with 'EIBM'.

#### LONG DATA: USER ENTITIES, INPUT AIDS, REPORT LAYOUTS

There are no more continuation records for these entities. Formally, there was one index for one main record and one index for each continuation record. Now long data is created to concatenate the information included in the previous records. This data can be 1,000 characters long. It is split up into several records. Now a single index is created and it points at the first of these records.

**IMPORTANT:** If a continuation record is modified in a sub-library, in the 2.n release, this modification is not retrieved in the long data in the lower libraries.

So if the retrieval process detects any update in one or more sub-library(ies) on the same continuation record, the following warning messages are displayed:

- "Risk of inconsistency of the \$xx xxxxxx user entity definition in the xxx library".
- 'Risk of inconsistency of the xxx documentation line under xxxxxxxx input aid in the xxx library'.
- "Risk of inconsistency of labels on the xxx line of the xxx report in the xxx library"

The user will have to modify these records manually if they are inconsistent with those of the 2.0 or 2.5 release.

## PC25 - Input / Processing / Results

A \* line with the code of the new development Database.

This line is optional if the Database code indicated in the 2.5 release can be kept. This Database code must have been defined in the Administration Database.

If you do not specify any Database code, an error message is sent and the procedure cannot be run.

This line must be structured in this way:

| Position | Length | Value | Meaning              |
|----------|--------|-------|----------------------|
| 2        | 1      | '*'   | Line code            |
| 3        | 4      | bbbb  | Code of new Database |

## PC25 - Description of Steps

INPUT RECOGNITION: PTU001

GENERAL PROCESSES: PTU911

| Code   | Physical name | Type   | Label                                                                                                                      |
|--------|---------------|--------|----------------------------------------------------------------------------------------------------------------------------|
| PAC7MC | &OLDPC        | Input  | Sequential image of the network (old release)                                                                              |
| PAC7AE | &INDSV..BVPAE | Input  | Error messages                                                                                                             |
| PAC7MB | &&PC25MB      | Input  | User input                                                                                                                 |
| PAC7PB | &&PC          | Output | Firtst data record (length=153)                                                                                            |
| PAC7PE | &&PE          | Output | User Entity Occurence definition (2.5 release), Report layouts, and Comments (except the calls of Input Aids) (length=193) |

| Code   | Physical name | Type   | Label                                                                                     |
|--------|---------------|--------|-------------------------------------------------------------------------------------------|
| PAC7PG | &&PG          | Output | Description of Input Aids and Comments including calls of Input Aids. (length=193)        |
| PAC7PL | &&PL          | Output | Definition and Description of Volumes, Definition and Description of Manuals (length=193) |
| PAC7PZ | &&PZ          | Output | User Entities and description of their Occurrences (2.5 release)                          |
| PAC7PF | &&PF          | Output | Other records (length=153)                                                                |
| PAC7PM | &&PM          | Output | Report file (length=48)                                                                   |
| PAC7ET |               | Report | Report only if absence of Database code                                                   |

#### MANUALS AND VOLUMES PROCESSING: PTU909

| Code     | Physical name | Type         | Label                                                                     |
|----------|---------------|--------------|---------------------------------------------------------------------------|
| SORTWK01 |               | Sort         |                                                                           |
| SORTWK02 |               | Sort         |                                                                           |
| SORTWK03 |               | Sort         |                                                                           |
| PAC7AE   | &INDSV..BVPAE | Input        | Error messages                                                            |
| PAC7PB   | &&PC          | Input        | First data record                                                         |
| PAC7PL   | &&PL          | Input        | Definition and Description of Volumes and Manuals                         |
| PAC7PI   | &&PI          | Output       | Sorted and re-formatted Volumes Definitions and Descriptions (length=153) |
| PAC7PM   | &&PM          | Input/Output | Report file                                                               |

#### COMMENTS PROCESSING: PTU92A

| Code     | Physical name | Type  | Label          |
|----------|---------------|-------|----------------|
| SORTWK01 |               | Sort  |                |
| SORTWK02 |               | Sort  |                |
| SORTWK03 |               | Sort  |                |
| PAC7AE   | &INDSV..BVPAE | Input | Error messages |



| Code   | Physical name | Type         | Label                                                                            |
|--------|---------------|--------------|----------------------------------------------------------------------------------|
| PAC7PG | &&PG          | Input        | Description of Input Aids and of the call of Input Aids in the Comments          |
| PAC7PM | &&PM          | Input/Output | Report                                                                           |
| PAC7PE | &&PH          | Output       | Description of Input Aids and of the call of Input Aids in Comments (length=193) |

#### META-ENTITIES PROCESSING: PTU912

| Code     | Physical name | Type   | Label                                                                |
|----------|---------------|--------|----------------------------------------------------------------------|
| SORTWK01 |               | Sort   |                                                                      |
| SORTWK02 |               | Sort   |                                                                      |
| SORTWK03 |               | Sort   |                                                                      |
| PAC7AE   | &INDSV..BVPAE | Input  | Error messages                                                       |
| PAC7PZ   | &&PZ          | Input  | User Entities (2.5 release)                                          |
| PAC7PB   | &&PB          | Input  | First data record                                                    |
| PAC7ZP   | &&ZP          | Output | Development Model records (Definition and Descriptions) (length=193) |

#### REPORT LAYOUT PROCESSING: PTU919

| Code     | Physical name | Type         | Label                                                                                                     |
|----------|---------------|--------------|-----------------------------------------------------------------------------------------------------------|
| SORTWK01 |               | Sort         |                                                                                                           |
| SORTWK02 |               | Sort         |                                                                                                           |
| SORTWK03 |               | Sort         |                                                                                                           |
| PAC7AE   | &INDSV..BVPAE | Input        | Error messages                                                                                            |
| PAC7PE   | &&PE          | Input        | User Entity Occurences Definition (2.5 release), Report layouts and Comments (except calls of input aids) |
| PAC7PB   | &&PB          | Input        | First data record                                                                                         |
| PAC7PH   | &&PH          | Input        | Description of Input Aids and of their calls in the Comments                                              |
| PAC7PM   | &&PM          | Input/Output | Report file                                                                                               |

| Code   | Physical name | Type   | Label                                                                                                                    |
|--------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------|
| PAC7ZP | &&EP          | Output | User entity Occurences Definition (2.5 release), Report layouts, and Comments (call of Input Aids included) (length=193) |
| PAC7PO | &&PO          | Output | Comments (except the call of Input Aids) (length=153)                                                                    |
| PAC7PD | &&PD          | Output | First data record (length=153)                                                                                           |

### USER ENTITIES PROCESSING: PTU913

| Code     | Physical name | Type   | Label                                                                                                                             |
|----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| SORTWK01 |               | Sort   |                                                                                                                                   |
| SORTWK02 |               | Sort   |                                                                                                                                   |
| SORTWK03 |               | Sort   |                                                                                                                                   |
| PAC7AE   | &INDSV..BVPAE | Input  | Error messages                                                                                                                    |
| PAC7PX   | &&EP          | Input  | Definition of User Entity Occurences (2.5 release), Report layouts, and Comments (including the call of Input Aids)               |
| PAC7PZ   | &&ZP          | Input  | Definition and Description of the Development Model and Description of User Entity Occurences (2.5 release)                       |
| PAC7PB   | &&PB          | Input  | First data record                                                                                                                 |
| PAC7ZP   | &&ZX          | Output | Long data of the Development Model, User Entities, Report layouts, and Comments (including the calls of Input Aids ) (length=193) |
| PAC7PD   | &&PD          | Output | First data record (length=153)                                                                                                    |

### SORT OF LONG DATA

Sort criteria: SRTPC25 member of the SY PDS

| Code     | Physical name | Type | Label |
|----------|---------------|------|-------|
| SORTWK01 |               | Sort |       |
| SORTWK02 |               | Sort |       |
| SORTWK03 |               | Sort |       |

| Code    | Physical name | Type          | Label                         |
|---------|---------------|---------------|-------------------------------|
| SORTIN  | &&ZX          | Input Input   | Intermediate long data        |
| SORTOUT | &&XZ          | Output Output | Sorted long data (length=193) |

### FILES MERGING: PTU914

This step consists in restoring the final sequential image from the intermediate files produced by the previous steps.

| Code   | Physical name        | Type   | Label                                         |
|--------|----------------------|--------|-----------------------------------------------|
| PAC7AE | &INDSV..BVP AE       | Input  | Error messages                                |
| PAC7ZP | &&XZ                 | Input  | Sorted long data                              |
| PAC7PO | &&PO                 | Input  | Comments (no call of Input Aids)              |
| PAC7PD | &&PD                 | Input  | First data record                             |
| PAC7PI | &&PI                 | Input  | Volumes Definition and Description            |
| PAC7PF | &&PF                 | Input  | Other records                                 |
| PAC7PM | &&PM                 | Input  | Report file                                   |
| PAC7PC | &INDUN..&BASE.PC(+1) | Output | Sequential image of the network (3.0 release) |
| PAC7ET |                      | Report | Retrieval report                              |

### PC25 - Execution JCL

```

/** -----
/** VISUALAGE PACBASE
/**
/** -----
/** RETRIEVAL OF PC FILE
/**
/** -----
/**
/**BVPPC25 PROC BASE=$BASE, CODE OF DEVPT DATABASE
/** INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
/** INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
/** INDUN='$INDUN', INDEX OF USER NON VSAM FILES
/***: VSAMCAT='$VCAT', USER VSAM CATALOG
/***: SYSCAT='$SCAT', SYSTEM VSAM CATALOG
/** STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
/** SORTLIB='$BIBT', SORT LIBRARY
/** DSCB='$DSCB', DSCB MODEL FILE
/** OUT=$OUT, OUTPUT CLASS
/** VOLS='$SER=$VOLUN', VOLUME OF ARCHIVED JOURNAL

```

```

// UNITS=$UNITUN, BACKUP UNIT (DISK OR CARTRIDGE)
// OLDPC=, DS NAME OF OLD PC
// UWK=$UWK, WORK UNIT
// SPAPC=' (TRK,(300,10),RLSE) ', DEVPT DATABASE BACKUP 2
// CYL=' (10,1) ' TEMPORARY SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&PC25MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PTU911 EXEC PGM=BVPTU911
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7MB DD DSN=&&PC25MB,DISP=(OLD,DELETE)
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7MC DD DSN=&OLDPC,DISP=SHR
//PAC7PF DD DSN=&&PF,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7PB DD DSN=&&PC,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(TRK,1,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7PE DD DSN=&&PE,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//PAC7PG DD DSN=&&PG,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//PAC7PL DD DSN=&&PL,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//PAC7PM DD DSN=&&PM,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=48,BLKSIZE=4800)
//PAC7PZ DD DSN=&&PZ,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//PAC7ET DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTU909 EXEC PGM=BVPTU909,COND=(0,NE,PTU911)
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR

```

```

//PAC7PB DD DSN=&&PC,DISP=(OLD,PASS)
//PAC7PL DD DSN=&&PL,DISP=(OLD,DELETE)
//PAC7PI DD DSN=&&PI,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7PM DD DSN=&&PM,DISP=(OLD,PASS)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTU92A EXEC PGM=BVPTU92A,COND=((0,NE,PTU911),(0,NE,PTU909))
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7PG DD DSN=&&PG,DISP=(OLD,DELETE)
//PAC7PM DD DSN=&&PM,DISP=(OLD,PASS)
//PAC7PE DD DSN=&&PH,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//SYSUDUMP DD SYSOUT=&OUT
//PTU912 EXEC PGM=BVPTU912,COND=((0,NE,PTU911),(0,NE,PTU909),
// (0,NE,PTU92A))
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7PZ DD DSN=&&PZ,DISP=(OLD,DELETE)
//PAC7ZP DD DSN=&&ZP,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//PAC7PB DD DSN=&&PC,DISP=(OLD,PASS)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTU919 EXEC PGM=BVPTU919,COND=((0,NE,PTU911),(0,NE,PTU909),
// (0,NE,PTU92A),(0,NE,PTU912))
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR

```

```

// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7PB DD DSN=&&PC,DISP=(OLD,DELETE)
//PAC7PE DD DSN=&&PE,DISP=(OLD,DELETE)
//PAC7PH DD DSN=&&PH,DISP=(OLD,DELETE)
//PAC7PM DD DSN=&&PM,DISP=(OLD,PASS)
//PAC7PD DD DSN=&&PD,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7PO DD DSN=&&PO,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7ZP DD DSN=&&EP,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTU913 EXEC PGM=BVPTU913,COND=((0,NE,PTU911),(0,NE,PTU909),
// (0,NE,PTU92A),(0,NE,PTU912),(0,NE,PTU919))
//*-----
//*:STEP DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7PB DD DSN=&&PD,DISP=(OLD,DELETE)
//PAC7PD DD DSN=&&PB,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=27846)
//PAC7PZ DD DSN=&&ZP,DISP=(OLD,DELETE)
//PAC7PX DD DSN=&&EP,DISP=(OLD,DELETE)
//PAC7ZP DD DSN=&&ZX,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//SORTZX EXEC PGM=SORT,COND=((0,NE,PTU911),(0,NE,PTU909),
// (0,NE,PTU92A),(0,NE,PTU912),(0,NE,PTU919),
// (0,NE,PTU913))
//*-----
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSPRINT 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)
//SORTIN DD DSN=&&ZX,DISP=(OLD,DELETE)

```

```

//SORTOUT DD DSN=&&XZ,DISP=(NEW,PASS),UNIT=&UWK,
// SPACE=(CYL,&CYL,RLSE),
// DCB=(RECFM=FB,LRECL=193,BLKSIZE=27985)
//SYSIN DD DSN=&INDSN..BVPSY(SRTPC25),DISP=SHR
//PTU914 EXEC PGM=BVPTU914,COND=((0,NE,PTU911),(0,NE,PTU909),
// (0,NE,PTU92A),(0,NE,PTU912),(0,NE,PTU919),
// (0,NE,PTU913),(0,NE, SORTZX))
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7PF DD DSN=&&PF,DISP=(OLD,DELETE)
//PAC7PD DD DSN=&&PB,DISP=(OLD,DELETE)
//PAC7PI DD DSN=&&PI,DISP=(OLD,DELETE)
//PAC7PM DD DSN=&&PM,DISP=(OLD,DELETE)
//PAC7PO DD DSN=&&PO,DISP=(OLD,DELETE)
//PAC7ZP DD DSN=&&XZ,DISP=(OLD,DELETE)
//PAC7PC DD DSN=&INDUN..&BASE.PC(+1),
// DISP=(,CATLG,DELETE),
// UNIT=&UNITS,
// VOL=&VOLS,
// SPACE=&SPAPC,
// DCB=(&DSCB,RECFM=VB,LRECL=1023,BLKSIZE=27998)
//PAC7ET DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

---

## Generation-Print Commands Retrieval (PG20)

### PG20 - Introduction

#### PRINCIPLE

The PG20 procedure retrieves the 2.0 release PG file, sequential image of the generation-print commands, in the 3.0 release new format.

It updates the development Database with the generation-print commands and the Administration Database with the JCL command lines (displayed on the GP screen with the C4 option in the 2.0 release).

#### EXECUTION CONDITIONS

The files of the administration and development Databases must be closed in the on-line mode.

#### PRINTED OUTPUT

This procedure outputs a report which contains the errors encountered.

## NOTE

The insertion of update transactions is possible only in libraries or sessions already defined in the Database, otherwise they are rejected.

The PG file may contain commands associated with a specific library or session which can be purged later.

The update of a generation-print command associated with an entity is not possible if the entity is not defined.

Example: for the GCP PROGRA command, the PROGRA program must be defined in the database.

User codes present in the PG file and not present in the administration database are automatically created for users who have JCLs.

### **PG20 - Input / Processing / Results**

A \* line with the user code, password and the code of the development Database for which the JCL command lines were previously updated in the administration Database.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.

The line structure is as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '**'     | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

### **PG20 - Description of Steps**

INPUT RECOGNITION: PTU001

GENERATION-PRINT COMMANDS FORMATTING: PTU908

| Code   | Physical name | Type   | Label                                               |
|--------|---------------|--------|-----------------------------------------------------|
| PAC7IN | &OLDPG        | Input  | Generation-print commands, old release              |
| PAC7OU | &&PG          | Output | Re-formatted generation-print commands (length=150) |



## GENERATION-PRINT COMMANDS PROCESSING: PTU921

| Code   | Physical name | Type   | Label                                               |
|--------|---------------|--------|-----------------------------------------------------|
| PAC7PG | &OLDPG        | Input  | Generation-print commands, old release              |
| PAC7AE | &INDSV..BVPAE | Input  | Error labels                                        |
| PAC7MB | &&PG25MB      | Input  | User Entities                                       |
| PAC7GY | &&PACGY       | Output | Generation-print commands transactions (length=310) |
| PAC7GZ | &&PACGZ       | Output | JCL lines transactions (length = 310)               |
| PAC7ET |               | Report | Error report                                        |

## TRANSACTIONS FORMATTING: PAF900

| Code   | Physical name   | Type   | Label                                                                                                                                                                                        |
|--------|-----------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDUV.&BASE.AR | Input  | Development Database data                                                                                                                                                                    |
| PAC7AN | &INDUV.&BASE.AN | Input  | Development Database index                                                                                                                                                                   |
| PAC7AE | &INDSV..BVPAE   | Input  | Error messages                                                                                                                                                                               |
| PACGGR | &INDSV..BVPGR   | Input  | Administration Database data                                                                                                                                                                 |
| PACGGN | &INDSV..BVPGN   | Input  | Administration Database index                                                                                                                                                                |
| PACGGU | &INDSV..BVPGU   | Input  | Administration Database users                                                                                                                                                                |
| PAC7GY | &&PACGY         | Input  | Update transactions                                                                                                                                                                          |
| PAC7MV | &&PAC7MV        | Output | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME |                 | Output | Working file (length=372)                                                                                                                                                                    |
| PAC7MW |                 | Output | Work file (length=170)                                                                                                                                                                       |
| PAC7MX |                 | Output | Work file (length=743)                                                                                                                                                                       |
| PAC7MY |                 | Output | Work file (length=743)                                                                                                                                                                       |

## UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| Code   | Physical name   | Type   | Label                          |
|--------|-----------------|--------|--------------------------------|
| PAC7AR | &INDUV.&BASE.AR | Output | Development Database Data file |

| Code   | Physical name    | Type   | Label                                       |
|--------|------------------|--------|---------------------------------------------|
| PAC7AN | &INDUV..&BASE.AN | Output | Development Database index                  |
| PAC7AY | &INDUV..&BASE.AY | Output | Development Database extension              |
| PAC7AJ | &INDUV..&BASE.AJ | Output | Development Database journal                |
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                              |
| PACGGN | &INDSV..BVP GN   | Input  | Administration Database Index file          |
| PACGGR | &INDSV..BVP GR   | Input  | Administration Database Data file           |
| PACGGY | &INDSV..BVP GY   | Input  | Administration Database Extension           |
| PACGGU | &INDSV..BVP GU   | Input  | Administration Database users               |
| PAC7DC | &DSMS            | Input  | DSMS file of Development Database Elements  |
| PAC7ME | &&PAC7ME         | Input  | Working file                                |
| PAC7MV | &&PAC7MV         | Input  | Update transactions                         |
| PAC7RB | &&PAC7RB         | Output | UPDT erroneous transactions (length=80)     |
| PAC7RY | &&PAC7RY         | Output | UPDP erroneous transactions (length=310)    |
| PAC7IE |                  | Report | Update report (length=132)                  |
| PAC7IF |                  | Report | List of erroneous transactions (length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

#### TRANSACTION FORMATTING: PAF900

| Code   | Physical name  | Type  | Label                         |
|--------|----------------|-------|-------------------------------|
| PAC7AR | &INDSV..BVP GR | Input | Administration Database data  |
| PAC7AN | &INDSV..BVP GN | Input | Administration Database index |
| PAC7AE | &INDSV..BVP AE | Input | Error labels                  |
| PACGGR | &INDSV..BVP GR | Input | Administration Database data  |
| PACGGN | &INDSV..BVP GN | Input | Administration Database index |

| Code   | Physical name | Type   | Label                                                                                                                                                                    |
|--------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users                                                                                                                                            |
| PAC7GY | &&PACGY       | Input  | Update transactions                                                                                                                                                      |
| PAC7MV | &&PAC7MV      | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME |               | Output | Working file (length=372)                                                                                                                                                |
| PAC7MW |               | Output | Working file (length=170)                                                                                                                                                |
| PAC7MX |               | Output | Working file (length=743)                                                                                                                                                |
| PAC7MY |               | Output | Working file (length=743)                                                                                                                                                |

#### UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name | Type   | Label                                      |
|--------|---------------|--------|--------------------------------------------|
| PAC7AR | &INDSV..BVPGR | Output | Administration Database Data file          |
| PAC7AN | &INDSV..BVPGN | Output | Administration Database Index file         |
| PAC7AY | &INDSV..BVPGY | Output | Administration Database extension          |
| PAC7AJ | &INDSV..BVPGJ | Output | Administration Database journal            |
| PAC7AE | &INDSV..BVPAE | Input  | Error messages                             |
| PACGGN | &INDSV..BVPGN | Input  | Administration Database Index file         |
| PACGGR | &INDSV..BVPGR | Input  | Administration Database Data file          |
| PACGGY | &INDSV..BVPGY | Input  | Administration Database Extension          |
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users              |
| PAC7DC | &DSMS         | Input  | DSMS file of Development Database elements |
| PAC7ME | &&PAC7ME      | Input  | Work file                                  |
| PAC7MV | &&PAC7MV      | Input  | Update transactions                        |
| PAC7RB | DUMMY         | Output | UPDT erroneous transactions (length=80)    |
| PAC7RY | DUMMY         | Output | UPDP erroneous transactions (length=310)   |
| PAC7IE |               | Report | Update report (length=132)                 |

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC71F |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## PG20 - Execution JCL

```

/* -----
/* VISUALAGE PACBASE
/*
/* -----
/* RETRIEVAL OF PG FILE SINCE 2.0
/*
/* -----
/*
//BVPPG20 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// OLDPG=, DS NAME OF OLD PG
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(100,10),RLSE) ' TRANSACTION SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&PG20MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//VERIFY EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR

```

```

//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//PAC7AN DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAJ),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU908 EXEC PGM=BVPTU908
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7IN DD DSN=&OLDPG,DISP=SHR
//PAC7OU DD DSN=&&PG,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(10,5),RLSE),
// DCB=(RECFM=FB,LRECL=150,BLKSIZE=6150)
//PTU921 EXEC PGM=BVPTU921
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7MB DD DSN=&&PG20MB,DISP=(OLD,DELETE)
//PAC7PG DD DSN=&&PG,DISP=(OLD,DELETE)
//PAC7GY DD DSN=&&PACGY,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7GZ DD DSN=&&PACGZ,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ET DD SYSOUT=&OUT
//PAF90Y EXEC PGM=BVPAF900,COND=(0,NE,PTU921)
//*-----
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT

```

```

//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGY,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA1Y EXEC PGM=BVPACA15,COND=((0,NE,PTU921),(0,NE,PAF90Y))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEPCL DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)

```

```

//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT
//PAF90Z EXEC PGM=BVPAF900,COND=(0,NE,PTU921)
//*-----
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=10','BUFNI=10')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=10')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGZ,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA1Z EXEC PGM=BVPACA15,COND=((0,NE,PTU921),
// (0,NE,PAF90Z))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=10','BUFNI=10')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=10')

```

```

//AYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=10')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT

```

---

## Generation-Print Commands Retrieval (PG25)

### PG25 - Introduction

#### PRINCIPLE

The PG25 procedure retrieves the 2.5 release PG file, sequential image of the generation-print commands, in the 3.0 release new format.

It updates the development Database with the generation-print commands and the Administration Database with the JCL command lines (displayed on the GP screen with the C4 option in the 2.5 release).

#### EXECUTION CONDITIONS

The files of the Administration and Development Databases must be closed to on-line use.

#### PRINTED OUTPUT

This procedure prints a report on the errors encountered.

#### NOTE

The insertion of update transactions is possible only in libraries or sessions already defined in the Database, otherwise they are rejected.

The PG file may contain commands associated with a specific library or session which can be purged later.



The update of a generation-print command associated with an entity is not possible if the entity is not defined. Example: for the GCP PROGRA command, the PROGRA program must be defined in the database.

User codes present in the PG file and not present in the administration database are automatically created for users who have JCLs.

### PG25 - Input / Processing / Results

A \* line with the user code, password and the code of the development Database for which the JCL command lines were previously updated in the administration Database.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.

The line structure is as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '*       | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

### PG25 - Description of Steps

INPUT RECOGNITION: PTU001

GENERATION-PRINT COMMANDS PROCESSING: PTU921

| Code   | Physical name | Type   | Label                                               |
|--------|---------------|--------|-----------------------------------------------------|
| PAC7PG | &OLDPG        | Input  | Generation-print commands, old release              |
| PAC7AE | &INDSV..BVPAE | Input  | Error labels                                        |
| PAC7MB | &&PG25MB      | Input  | User Entities                                       |
| PAC7GY | &&PACGY       | Output | Generation-print commands transactions (length=310) |
| PAC7GZ | &&PACGZ       | Output | JCL lines transactions (length = 310)               |
| PAC7ET |               | Report | Error report                                        |

## TRANSACTIONS FORMATTING: PAF900

| Code   | Physical name    | Type   | Label                                                                                                                                                                                        |
|--------|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDUV..&BASE.AR | Input  | Development Database data                                                                                                                                                                    |
| PAC7AN | &INDUV..&BASE.AN | Input  | Development Database index                                                                                                                                                                   |
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                                                                                                                                                                               |
| PACGGR | &INDSV..BVPGR    | Input  | Administration Database data                                                                                                                                                                 |
| PACGGN | &INDSV..BVPGN    | Input  | Administration Database index                                                                                                                                                                |
| PACGGU | &INDSV..BVPGU    | Input  | Administration Database users                                                                                                                                                                |
| PAC7GY | &&PACGY          | Input  | Update transactions                                                                                                                                                                          |
| PAC7MV | &&PAC7MV         | Output | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME |                  | Output | Working file (length=372)                                                                                                                                                                    |
| PAC7MW |                  | Output | Work file (length=170)                                                                                                                                                                       |
| PAC7MX |                  | Output | Work file (length=743)                                                                                                                                                                       |
| PAC7MY |                  | Output | Work file (length=743)                                                                                                                                                                       |

## UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| Code   | Physical name    | Type   | Label                                      |
|--------|------------------|--------|--------------------------------------------|
| PAC7AR | &INDUV..&BASE.AR | Output | Development Database Data file             |
| PAC7AN | &INDUV..&BASE.AN | Output | Development Database index                 |
| PAC7AY | &INDUV..&BASE.AY | Output | Development Database extension             |
| PAC7AJ | &INDUV..&BASE.AJ | Output | Development Database journal               |
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                             |
| PACGGN | &INDSV..BVPGN    | Input  | Administration Database Index file         |
| PACGGR | &INDSV..BVPGR    | Input  | Administration Database Data file          |
| PACGGY | &INDSV..BVPGY    | Input  | Administration Database Extension          |
| PACGGU | &INDSV..BVPGU    | Input  | Administration Database users              |
| PAC7DC | &DSMS            | Input  | DSMS file of Development Database Elements |
| PAC7ME | &&PAC7ME         | Input  | Working file                               |
| PAC7MV | &&PAC7MV         | Input  | Update transactions                        |

| Code   | Physical name | Type   | Label                                       |
|--------|---------------|--------|---------------------------------------------|
| PAC7RB | &&PAC7RB      | Output | UPDT erroneous transactions (length=80)     |
| PAC7RY | &&PAC7RY      | Output | UPDP erroneous transactions (length=310)    |
| PAC7IE |               | Report | Update report (length=132)                  |
| PAC7IF |               | Report | List of erroneous transactions (length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

#### TRANSACTION FORMATTING: PAF900

| Code   | Physical name  | Type   | Label                                                                                                                                                                    |
|--------|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDSV..BVPGR  | Input  | Administration Database data                                                                                                                                             |
| PAC7AN | &INDSV..BVPGN  | Input  | Administration Database index                                                                                                                                            |
| PAC7AE | &INDSV..BVP AE | Input  | Error labels                                                                                                                                                             |
| PACGGR | &INDSV..BVPGR  | Input  | Administration Database data                                                                                                                                             |
| PACGGN | &INDSV..BVPGN  | Input  | Administration Database index                                                                                                                                            |
| PACGGU | &INDSV..BVP GU | Input  | Administration Database users                                                                                                                                            |
| PAC7GY | &&PACGY        | Input  | Update transactions                                                                                                                                                      |
| PAC7MV | &&PAC7MV       | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME |                | Output | Working file (length=372)                                                                                                                                                |
| PAC7MW |                | Output | Working file (length=170)                                                                                                                                                |
| PAC7MX |                | Output | Working file (length=743)                                                                                                                                                |
| PAC7MY |                | Output | Working file (length=743)                                                                                                                                                |

## UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC7AR | &INDSV..BVPGR | Output | Administration Database Data file              |
| PAC7AN | &INDSV..BVPGN | Output | Administration Database Index file             |
| PAC7AY | &INDSV..BVPGY | Output | Administration Database extension              |
| PAC7AJ | &INDSV..BVPGJ | Output | Administration Database journal                |
| PAC7AE | &INDSV..BVPAE | Input  | Error messages                                 |
| PACGGN | &INDSV..BVPGN | Input  | Administration Database Index file             |
| PACGGR | &INDSV..BVPGR | Input  | Administration Database Data file              |
| PACGGY | &INDSV..BVPGY | Input  | Administration Database Extension              |
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users                  |
| PAC7DC | &DSMS         | Input  | DSMS file of Development Database elements     |
| PAC7ME | &&PAC7ME      | Input  | Work file                                      |
| PAC7MV | &&PAC7MV      | Input  | Update transactions                            |
| PAC7RB | DUMMY         | Output | UPDT erroneous transactions (length=80)        |
| PAC7RY | DUMMY         | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |               | Report | Update report (length=132)                     |
| PAC7IF |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

### PG25 - Execution JCL

```

//* -----
//* VISUALAGE PACBASE
//*
//* -----
//* RETRIEVAL OF PG FILE SINCE 2.5
//*
//* -----

```

```

//*
//BVPPG25 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSCAT='$SCAT', DEVPT SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// OLDPG=, DS NAME OF OLD PG
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(100,10),RLSE)' TRANSACTION SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&PG25MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//VERIFY EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//PAC7AN DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAJ),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU921 EXEC PGM=BVPTU921
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR

```

```

//PAC7MB DD DSN=&&PG25MB,DISP=(OLD,DELETE)
//PAC7PG DD DSN=&OLDPG,DISP=SHR
//PAC7GY DD DSN=&&PACGY,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7GZ DD DSN=&&PACGZ,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ET DD SYSOUT=&OUT
//PAF90Y EXEC PGM=BVPAF900,COND=(0,NE,PTU921)
//*-----
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGY,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA1Y EXEC PGM=BVPACA15,COND=((0,NE,PTU921),(0,NE,PAF90Y))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//
// DD DSN=$BCOB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR

```

```

//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT
//PAF90Z EXEC PGM=BVPAF900,COND=(0,NE,PTU921)
/*-----
/*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
/*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=10','BUFNI=10')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=10')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,

```

```

// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA1Z EXEC PGM=BVPACA15,COND=((0,NE,PTU921),
// (0,NE,PAF90Z))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=10','BUFNI=10')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=10')
//AYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=10')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT

```

---

## PEI Retrieval (PP25)

### PP25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 PP file, which is the sequential image of the Production Environment Interface, and updates the 3.0 development database.

#### EXECUTION CONDITIONS

The development Database files must be closed in the on-line mode.

#### PRINTED OUTPUT



This procedure produces a report indicating the error encountered.

## RESULT

The procedure generates a transaction file which contains the existing production environments, the list of the generated entities, the default environments (-GO of the Library), the list of production sessions in the 3.0 format, and updates the 3.0 development database.

## NOTE

Any update transactions in a session or library which is not already defined in the database will be rejected.

The PP file may contain environments with library codes or sessions to be created or purged later in the 2.0 or 2.5 Database.

### **PP25 - Input / Processing / Results**

A '\*'line with a user code and a password

If the user code is not indicated, an error message is displayed and the procedure cannot be run.

The structure of the line is presented as follows:

| Position | Length | Value    | Meaning   |
|----------|--------|----------|-----------|
| 2        | 1      | '*'      | Line code |
| 3        | 8      | uuuuuuuu | User code |
| 11       | 8      | pppppppp | Password  |

### **PP25 - Description of Steps**

INPUT RECOGNITION: PTU001

MANAGEMENT OF PRODUCTION ENVIRONMENT: PTU923

| Code   | Physical name | Type   | Label                                                         |
|--------|---------------|--------|---------------------------------------------------------------|
| PAC7PP | &OLDPP        | Input  | Back up of production environment (old release) (old release) |
| PAC7AE | &INDSV..BVPAE | Input  | Error message                                                 |
| PAC7MB | &&PP25MB      | Input  | User input                                                    |
| PAC7GY | &&PACGY       | Output | Records of production environments (length=310)               |

| Code   | Physical name | Type   | Label                   |
|--------|---------------|--------|-------------------------|
| PAC7ET |               | Report | Report in case of error |

#### TRANSACTIONS FORMATTING: PAF900

| Code   | Physical name    | Type   | Label                                                                                                                                                                                        |
|--------|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDUV..&BASE.AR | Input  | Development Database data                                                                                                                                                                    |
| PAC7AN | &INDUV..&BASE.AN | Input  | Development Database index                                                                                                                                                                   |
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                                                                                                                                                                               |
| PACGGR | &INDSV..BVPGR    | Input  | Administration Database data                                                                                                                                                                 |
| PACGGN | &INDSV..BVPGN    | Input  | Administration Database index                                                                                                                                                                |
| PACGGU | &INDSV..BVPGU    | Input  | Administration Database users                                                                                                                                                                |
| PAC7GY | &&PACGY          | Input  | Update transactions                                                                                                                                                                          |
| PAC7MV | &&PAC7MV         | Output | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME |                  | Output | Working file (length=372)                                                                                                                                                                    |
| PAC7MW |                  | Output | Work file (length=170)                                                                                                                                                                       |
| PAC7MX |                  | Output | Work file (length=743)                                                                                                                                                                       |
| PAC7MY |                  | Output | Work file (length=743)                                                                                                                                                                       |

#### UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| Code   | Physical name    | Type   | Label                              |
|--------|------------------|--------|------------------------------------|
| PAC7AR | &INDUV..&BASE.AR | Output | Development Database Data file     |
| PAC7AN | &INDUV..&BASE.AN | Output | Development Database index         |
| PAC7AY | &INDUV..&BASE.AY | Output | Development Database extension     |
| PAC7AJ | &INDUV..&BASE.AJ | Output | Development Database journal       |
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                     |
| PACGGN | &INDSV..BVPGN    | Input  | Administration Database Index file |
| PACGGR | &INDSV..BVPGR    | Input  | Administration Database Data file  |
| PACGGY | &INDSV..BVPGY    | Input  | Administration Database Extension  |

| Code   | Physical name | Type   | Label                                       |
|--------|---------------|--------|---------------------------------------------|
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users               |
| PAC7DC | &DSMS         | Input  | DSMS file of Development Database Elements  |
| PAC7ME | &&PAC7ME      | Input  | Working file                                |
| PAC7MV | &&PAC7MV      | Input  | Update transactions                         |
| PAC7RB | &&PAC7RB      | Output | UPDT erroneous transactions (length=80)     |
| PAC7RY | &&PAC7RY      | Output | UPDP erroneous transactions (length=310)    |
| PAC7IE |               | Report | Update report (length=132)                  |
| PAC7IF |               | Report | List of erroneous transactions (length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

## PP25 - Execution JCL

```

/* -----
/* VISUALAGE PACBASE
/*
/* -----
/* RETRIEVAL OF PP FILE
/*
/* -----
/*
//BVPPP25 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// OLDPP=, DS NAME OF OLD PP
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(100,10),RLSE) ' TRANSACTION SPACE
//*****
//INPUT EXEC PGM=BVPTU001

```

```

//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&PP25MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//VERIFY EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//PAC7AN DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAJ),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU923 EXEC PGM=BVPTU923
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7MB DD DSN=&&PP25MB,DISP=(OLD,DELETE)
//PAC7PP DD DSN=&OLDPP,DISP=SHR
//PAC7GY DD DSN=&&PACGY,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ET DD SYSOUT=&OUT
//PAF900 EXEC PGM=BVP AF900,COND=(0,NE,PTU923)
//*-----
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

```

//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGY,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA15 EXEC PGM=BVPACA15,COND=((0,NE,PTU923),(0,NE,PAF900))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)

```

```
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT
```

---

## Retrieval of Pac/Transfer Parameters (UV25)

### UV25 - Introduction

#### PRINCIPLE

The UV25 procedure retrieves the UV PacTransfer parameters file, 2.0 or 2.5 release, in the new format.

It updates the administration Database.

#### EXECUTION CONDITIONS

The administration Database files must be closed to on-line use.

#### PRINTED OUTPUT

This procedure prints a report on the errors encountered.

### UV25 - Input / Processing / Results

A '\*' line with a user code, a password and the code of the development Database concerned by the transfers.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.

The line structure must be as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '*'      | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

### UV25 - Description of Steps

INPUT RECOGNITION: PTU001

### PROCESSING OF TRANSFER PARAMETERS: PTU922

| Code   | Physical name  | Type   | Label                                        |
|--------|----------------|--------|----------------------------------------------|
| PAC7UV | &OLDUV         | Input  | Transfer parameters, old release             |
| PAC7AE | &INDSV..BVP AE | Input  | Error messages                               |
| PAC7MB | &&PG25MB       | Input  | User input                                   |
| PAC7GY | &&PACGY        | Output | Transfer parameter transactions (length=310) |
| PAC7ET |                | Report | Report in case of error                      |

### TRANSACTION FORMATTING: PAF900

| Code   | Physical name  | Type   | Label                                                                                                                                                                    |
|--------|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | &INDSV..BVPGR  | Input  | Administration Database data                                                                                                                                             |
| PAC7AN | &INDSV..BVPGN  | Input  | Administration Database index                                                                                                                                            |
| PAC7AE | &INDSV..BVP AE | Input  | Error labels                                                                                                                                                             |
| PACGGR | &INDSV..BVPGR  | Input  | Administration Database data                                                                                                                                             |
| PACGGN | &INDSV..BVPGN  | Input  | Administration Database index                                                                                                                                            |
| PACGGU | &INDSV..BVP GU | Input  | Administration Database users                                                                                                                                            |
| PAC7GY | &&PACGY        | Input  | Update transactions                                                                                                                                                      |
| PAC7MV | &&PAC7MV       | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME |                | Output | Working file (length=372)                                                                                                                                                |
| PAC7MW |                | Output | Working file (length=170)                                                                                                                                                |
| PAC7MX |                | Output | Working file (length=743)                                                                                                                                                |
| PAC7MY |                | Output | Working file (length=743)                                                                                                                                                |

### UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name  | Type   | Label                              |
|--------|----------------|--------|------------------------------------|
| PAC7AR | &INDSV..BVPGR  | Output | Administration Database Data file  |
| PAC7AN | &INDSV..BVP GN | Output | Administration Database Index file |

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC7AY | &INDSV..BVPGY | Output | Administration Database extension              |
| PAC7AJ | &INDSV..BVPJ  | Output | Administration Database journal                |
| PAC7AE | &INDSV..BVPAE | Input  | Error messages                                 |
| PACGGN | &INDSV..BVPGN | Input  | Administration Database Index file             |
| PACGGR | &INDSV..BVPGR | Input  | Administration Database Data file              |
| PACGGY | &INDSV..BVPGY | Input  | Administration Database Extension              |
| PACGGU | &INDSV..BVPGU | Input  | Administration Database users                  |
| PAC7DC | &DSMS         | Input  | DSMS file of Development Database elements     |
| PAC7ME | &&PAC7ME      | Input  | Work file                                      |
| PAC7MV | &&PAC7MV      | Input  | Update transactions                            |
| PAC7RB | DUMMY         | Output | UPDT erroneous transactions (length=80)        |
| PAC7RY | DUMMY         | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |               | Report | Update report (length=132)                     |
| PAC7IF |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## UV25 - Execution JCL

```

/** -----
/** VISUALAGE PACBASE
/**
/** -----
/** RETRIEVAL OF UV FILE
/**
/** -----
/**
/**BVPUV25 PROC OUT=$OUT, OUTPUT CLASS
/** INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
/** INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
/***: VSAMCAT='$VCAT', USER VSAM CATALOG

```



```

//*: SYSCAT=' $SCAT', SYSTEM VSAM CATALOG
// STEPLIB=' $HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR=' $LSR', LSR BATCH SYSTEM NAME
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// OLDUV=, DS NAME OF OLD UV
// UWK=$UWK, WORK UNIT
// SPAMB=' (TRK, (100,10),RLSE) ' TRANSACTION SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&UV25MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//VERIFY EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU922 EXEC PGM=BVPTU922
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7MB DD DSN=&&UV25MB,DISP=(OLD,DELETE)
//PAC7UV DD DSN=&OLDUV,DISP=SHR
//PAC7GY DD DSN=&&PACGY,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ET DD SYSOUT=&OUT
//PAF900 EXEC PGM=BVPAF900,COND=(0,NE,PTU922)
//*-----
//*:STEPCAT DD DSN=&SYSCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT

```

```

//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&&PACGY,DISP=(OLD,DELETE)
//PAC7ME DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=372,BLKSIZE=27156)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY DD DISP=(,DELETE),UNIT=&UWK,
//
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PACA15 EXEC PGM=BVPACA15,
// COND=((0,NE,PTU922),(0,NE,PAF900))
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7DC DD DUMMY

```

```

//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7ME DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB DD DUMMY
//PAC7RY DD DUMMY
//SYSUDUMP DD SYSOUT=&OUT

```

---

## Retrieval of MB Transactions (MB25)

### MB25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 MB transactions in the 3.0 release.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 3.0 UPDT procedure and a revoked transactions file.

### MB25 - Description of Steps

#### MB FILE RETRIEVAL: PTU926

| Code   | Physical name   | Type   | Label                           |
|--------|-----------------|--------|---------------------------------|
| PAC7AE | &INDSV..BVP AE  | Input  | Error messages                  |
| PAC7AR | &INDUV.&BASE.AR | Input  | Development database data       |
| PACGGR | &INDSV..BVPGR   | Input  | Administration database data    |
| PACGGN | &INDSV..BVPGN   | Input  | Administration database index   |
| PACGGU | &INDSV..BVPGU   | Input  | Administration database users   |
| PAC7MB | &OLDMB          | Input  | 2.5 MB transactions             |
| PAC7MV | &&PACMV         | Output | Retrieval transactions for UPDT |
| PAC7ME | &&PACME         | Output | Revoked transactions            |
| PAC7EF |                 | Report | Retrieval reports               |

| Code   | Physical name | Type   | Label                                |
|--------|---------------|--------|--------------------------------------|
| PAC7DD |               | Report | Batch procedure authorization option |

## MB25 - Execution JCL

```

//* -----
//* VISUALAGE PACBASE
//*
//* -----
//* RETRIEVAL OF MB FILE
//*
//* -----
//BVPMB25 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', DEVPT SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OLDMB=, DS NAME OF OLD MB
// UWK=$UWK WORK UNIT
//*****
//VERIFY EXEC PGM=IDCAM5
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU926 EXEC PGM=BVPTU926
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR

```

```

//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNSLR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7MB DD DSN=&OLDMB,DISP=SHR
//PAC7MV DD DSN=&&PACMV,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7ME DD DSN=&&PACME,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7EF DD SYSOUT=&OUT
//PAC7DD DD SYSOUT=&OUT

```

---

## Retrieval of GY Transactions (GY25)

### GY25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 GY transactions and formats them in the 3.0 release format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 3.0 UPDP procedure and a revoked transactions file.

### GY25 - Description of Steps

#### GY FILE RETRIEVAL: PTU927

| Code   | Physical name    | Type  | Label                         |
|--------|------------------|-------|-------------------------------|
| PAC7AE | &INDSV..BVPAE    | Input | Error messages                |
| PAC7AR | &INDUV..&BASE.AR | Input | Development database data     |
| PACGGR | &INDSV..BVPGR    | Input | Administration database data  |
| PACGGN | &INDSV..BVPGN    | Input | Administration database index |
| PACGGU | &INDSV..BVPGU    | Input | Administration database users |
| PAC7GY | &OLDGY           | Input | 2.5 GY transactions           |

| Code   | Physical name | Type   | Label                           |
|--------|---------------|--------|---------------------------------|
| PAC7MV | &&PACMV       | Output | Retrieval transactions for UPDP |
| PAC7ME | &&PACME       | Output | Revoked transactions            |
| PAC7EF |               | Report | Retrieval reports               |
| PAC7DD |               | Report | Authorization option            |

## GY25 - Execution JCL

```

/* -----
/* VISUALAGE PACBASE
/*
/* -----
/* RETRIEVAL OF GY FILE
/*
/* -----
/*
//BVPGY25 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', DEVPT SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OLDGY=, DS NAME OF OLD GY
// UWK=$UWK WORK UNIT
//*****
//VERIFY EXEC PGM=IDCAM5
//-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU927 EXEC PGM=BVPTU927
//-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

```

//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&OLDGY,DISP=SHR
//PAC7MV DD DSN=&&PACMV,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ME DD DSN=&&PACME,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7EF DD SYSOUT=&OUT
//PAC7DD DD SYSOUT=&OUT

```

---

## Retrieval of MB Transactions (MB30)

### MB30 - Introduction

#### PRINCIPLE

This procedure retrieves the 3.0 MB transactions and formats them in the 2.0 or 2.5 format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 2.0 or 2.5 UPDT procedure and a revoked transactions file.

### MB30 - Description of Steps

#### MB FILE RETRIEVAL: PTU928

| Code   | Physical name    | Type  | Label                        |
|--------|------------------|-------|------------------------------|
| PAC7AE | &INDSV..BVPAE    | Input | Error messages               |
| PAC7AR | &INDUV..&BASE.AR | Input | Development database data    |
| PACGGR | &INDSV..BVPGR    | Input | Administration database data |

| Code   | Physical name | Type   | Label                           |
|--------|---------------|--------|---------------------------------|
| PACGGN | &INDSV..BVPGN | Input  | Administration database index   |
| PACGGU | &INDSV..BVPGU | Input  | Administration database users   |
| PAC7MB | &OLDMB        | Input  | 3.0 MB transactions             |
| PAC7MV | &&PACMV       | Output | Retrieval transactions for UPDT |
| PAC7ME | &&PACME       | Output | Revoked transactions            |
| PAC7EF |               | Report | Retrieval reports               |
| PAC7DD |               | Report | Authorization option            |

### MB30 - Execution JCL

```

//* -----
//* VISUALAGE PACBASE
//*
//* -----
//* RETRIEVAL OF MB FILE
//*
//* -----
//*
//BVPMB30 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', DEVPT SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OLDMB=, DS NAME OF OLD MB
// UWK=$UWK WORK UNIT
//*****
//VERIFY EXEC PGM=IDCAM5
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU928 EXEC PGM=BVPTU928
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR

```



```

// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7MB DD DSN=&OLDMB,DISP=SHR
//PAC7MV DD DSN=&&PACMV,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7ME DD DSN=&&PACME,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7EF DD SYSOUT=&OUT
//PAC7DD DD SYSOUT=&OUT

```

---

## Retrieval of GY Transactions (GY30)

### GY30 - Introduction

#### PRINCIPLE

This procedure retrieves the 3.0 GY transactions and formats them in the 2.0 or 2.5 format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 2.0 or 2.5 UPDP procedure and a revoked transactions file.

## GY30 - Description of Steps

GY FILE RETRIEVAL: PTU929

| Code   | Physical name    | Type   | Label                           |
|--------|------------------|--------|---------------------------------|
| PAC7AE | &INDSV..BVP AE   | Input  | Error messages                  |
| PAC7AR | &INDUV..&BASE.AR | Input  | Development database data       |
| PACGGR | &INDSV..BVPGR    | Input  | Administration database data    |
| PACGGN | &INDSV..BVPGN    | Input  | Administration database index   |
| PACGGU | &INDSV..BVPGU    | Input  | Administration database users   |
| PAC7GY | &OLDGY           | Input  | 3.0 GY transactions             |
| PAC7MV | &&PACMV          | Output | Retrieval transactions for UPDP |
| PAC7ME | &&PACME          | Output | Revoked transactions            |
| PAC7EF |                  | Report | Retrieval reports               |
| PAC7DD |                  | Report | Authorization option            |

## GY30 - Execution JCL

```

/* -----
/* VISUALAGE PACBASE
/*
/* -----
/* RETRIEVAL OF GY FILE
/*
/* -----
/*
//BVPGY30 PROC BASE=$BASE, CODE OF DEVPT DATABASE
// OUT=$OUT, OUTPUT CLASS
// INDUV='$INDUV', INDEX OF USER VSAM FILES
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', DEVPT SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// LSR='BLSR', LSR BATCH SYSTEM NAME
// OLDGY=, DS NAME OF OLD GY
// UWK=$UWK WORK UNIT
//*****
//VERIFY EXEC PGM=IDCAMS
/*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFAE),DISP=SHR

```

```

// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//PTU929 EXEC PGM=BVPTU929
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY DD DSN=&OLDGY,DISP=SHR
//PAC7MV DD DSN=&&PACMV,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7ME DD DSN=&&PACME,DISP=(,PASS),UNIT=&UWK,
// SPACE=(TRK,(100,20),RLSE),
// DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100)
//PAC7EF DD SYSOUT=&OUT
//PAC7DD DD SYSOUT=&OUT

```

---

## Procedures - Summary Table of Changes

### LIST OF NEW PROCEDURES

| Procedure | Comments                                                                               |
|-----------|----------------------------------------------------------------------------------------|
| ARAD      | Archiving Administration Database                                                      |
| INAE      | Initialization of the error messages file (AE)                                         |
| INGU      | Initialization of the user codes files (GU)                                            |
| INQJ      | Initialization of the VA Pac interface archive journal and QJ configuration management |
| ROAD      | Re-organization of Administration Database                                             |
| RSAD      | Restoration of Administration Database                                                 |
| PACG      | Backup of Administration Database                                                      |
| VING      | Update of Administration Model                                                         |
| PACS      | Management of development Database                                                     |
|           |                                                                                        |

| <b>Procedure</b> | <b>Comments</b>                                    |
|------------------|----------------------------------------------------|
| GY25             | Retrieval of GY file for UPDP                      |
| MB25             | Retrieval of MB file for UPDT                      |
| GY30             | Retrieval of GY file for UPDP PDT to 2.5           |
| MB30             | Retrieval of MB file for UPDT PDT to 2.5           |
| PC25             | Retrieval of development Database                  |
| PE25             | Retrieval of user parameters (PE)                  |
| PG20             | Retrieval of 2.0 generation-print commands (PG)    |
| PG25             | Retrieval of 2.5 generation-print commands (PG)    |
| UV25             | Retrieval of PacTransfer parameters (UV)           |
| PP25             | Retrieval of PEI environment (PP)                  |
|                  |                                                    |
| CHPM             | Environment and Database elements check report     |
| CPPM             | Comparison between Database and user configuration |
| EXPM             | Extraction of environments                         |
| HIPM             | Implementation of elements                         |
| SIPM             | Generation simulation                              |
| TRED             | PacTransfer: print of parameters                   |

#### LIST OF PROCEDURES SUPPRESSED SINCE 2.5 RELEASE

| <b>Procedure</b> | <b>Program</b> | <b>Comments</b>              |
|------------------|----------------|------------------------------|
| CPSN             | PTU850 PTU855  | Integrated in PACX procedure |
| EMSN             | PTU810         |                              |
| MESN             | PTU815         |                              |
| MLIB             | PTU100 PTU120  | Integrated in PACS procedure |
| SASN             | PTU130 PTU140  | Integrated in PACS procedure |
| SAVE             | PTU500         | Integrated in PACS procedure |
| UXSR             | UTIXSR         | Integrated in PACS procedure |
|                  |                |                              |
| CRYP             | PACU99         |                              |
| PARM             | PACU15 PACU80  |                              |
| LOAE             | PACU80         |                              |
| REAG             | PTU560         |                              |
| SVAG             | PTU550         |                              |

| Procedure | Program              | Comments |
|-----------|----------------------|----------|
|           |                      |          |
| GET0      | PACT11               |          |
| GET1      | PACT41               |          |
| GET2      | PACT41 PACT51        |          |
|           |                      |          |
| GRPE      | PACR40               |          |
| INPE      | PACR01               |          |
| PP16      | PACR90               |          |
| PRPE      | PACR10               |          |
| RSPE      | PACR61               |          |
| SVPE      | PACR60               |          |
|           |                      |          |
| RVDE      | PREI00 PRE986        |          |
| RVKE      | PREI40 PREI50        |          |
|           |                      |          |
| TRRT      | REUV802 PTUG90       |          |
|           |                      |          |
| VDWN      | PVA100 PVA110        |          |
| VPUR      | PVA400               |          |
| VPU1      | PVA300 PVA305 PVA310 |          |
| VPU2      | PVA320               |          |
|           |                      |          |
| LVBL      | PTULVB               |          |
| QREO      | PTUN00 PTUN10 PTUN40 |          |
|           |                      |          |
| RPPG      | PTU908               |          |
| RPTD      | PTAR20               |          |



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## Chapter 8. Components

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### Server Environment Components

#### Introduction

One of the purposes of the product is to manage permanent data in either batch or on-line mode, by using two types of resources:

- Libraries in which the programs which make up the system, and the parameters required to run the system, are stored:
  - One On-Line Program library,
  - One Batch Program library,
  - One library for the common parameters and the administration Database,
  - One parameter library for each development Database,
  - One library for the batch procedures' JCLs.
- Permanent files, containing the data handled by the programs defined previously. These files can be classified into two categories:
  - System files, which are not linked to a particular development Database and remain relatively unchanged,
  - Evolving files which are associated to a development Database and whose volumes vary according to the updates performed.

#### Security Systems Interface Extension

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

For RACF, the sub-program coded BVPSECRA must be installed in an authorized library by copying the module which is found in the batch load-module library (SBVPMBR8) with the name BVPSECUR.

| Program  | Security system |
|----------|-----------------|
| BVPSECRA | RACF            |
| BVPTOPSB | TOPSECRET Batch |
| BVPTOPST | TOPSECRET CICS  |

For more information on the operation of this extension, refer to chapter 'Installation', subchapter 'System Complement: Security System Interface', and to the 'Security Systems Interface' manual.

## On-Line Documentation

Besides the libraries described in the preceding subchapters, the VA PAC system includes the AE file which contains the error messages and on-line documentation.

| Characteristics | Value                                     |
|-----------------|-------------------------------------------|
| Size            | approximately 50,000 records per language |
| Organization    | VSAM-KSDS                                 |
| Reclsize        | 80                                        |
| CI Size         | 4,096 (data) 1,024 (index)                |
| Key             | 12 (position 0)                           |
| Utilization     | batch and TP                              |
| Dsname          | &INDSV..&BVP AE                           |

## Generation Skeletons

The product also includes the following files:

- A skeleton generation file (SC file) used by the Batch generator function.

| Characteristics | Value                      |
|-----------------|----------------------------|
| Size            | Approximately 45 records   |
| Organization    | VSAM-KSDS                  |
| Reclsize        | 3,204                      |
| CI Size         | 3,584 (data) 1,024 (index) |
| Key             | 4 (position 0)             |
| Dsname          | &INDSV..BVP SC             |

- A skeleton generation file (SG file) used by the On-Line Systems Development and Database generator functions.

| Characteristics | Value                      |
|-----------------|----------------------------|
| Size            | Approx. 450 records        |
| Organization    | VSAM-KSDS                  |
| Reclsize        | 4,605                      |
| CI Size         | 5,120 (data) 1,536 (index) |
| Key             | 5 (position 0)             |
| Utilization     | Batch only                 |
| Dsname          | &INDSV..BVP SG             |



- A skeleton generation file (SN file) used by the eBusiness generator function.

| Characteristics | Value                      |
|-----------------|----------------------------|
| Size            | Approx. 350 records        |
| Organization    | VSAM-KSDS                  |
| Recsize         | 4,605                      |
| CI Size         | 5,120 (data) 1,536 (index) |
| Key             | 5 (position 0)             |
| Utilization     | Batch only                 |
| Dsname          | &INDSV..BVPSN              |

- A skeleton generation file (SR file), used by the Reverse generator function.

| Characteristics | Value                   |
|-----------------|-------------------------|
| Size            | Approx. 25 records      |
| Organization    | VSAM-KSDS               |
| Recsize         | 4605                    |
| CI Size         | 5120 (data) 512 (index) |
| Key             | 5 (position 0)          |
| Utilization     | Batch only              |
| Dsname          | &INDSV..&BVPSR          |

- A skeleton generation file (SP file) used by the PAF function for the generation of extractors:

| Characteristics | Value                    |
|-----------------|--------------------------|
| Size            | Approx. 5 records        |
| Organization    | VSAM-KSDS                |
| Recsize         | 4,605                    |
| CI Size         | 5,120 (data) 512 (index) |
| Key             | 5 (position 0)           |
| Utilization     | Batch only               |
| Dsname          | &INDSV..BVPSP            |

- A skeleton file (SF file) used by the PAF function for the generation of extractors.

| Characteristics | Value                 |
|-----------------|-----------------------|
| Size            | Approx. 3,000 records |
| Organization    | Sequential            |
| Lrecl           | 119                   |
| Utilization     | Batch only            |
| Dsname          | &INDSN..BVPSF         |

- A skeleton generation file (SS file), used by the eBusiness generator function.

| Characteristics | Value                      |
|-----------------|----------------------------|
| Size            | Approx. 600 records        |
| Organization    | VSAM-KSDS                  |
| Recl            | 4,605                      |
| CI Size         | 5,120 (data) 1,536 (index) |
| Key             | 5 (position 0)             |
| Utilization     | Batch only                 |
| Dsname          | &INDSV..BVPSS              |

## Parameters

### System Parameter Libraries

The VA Pac system parameters library contains all the system utility programs parameters (they are implemented in the batch procedures used for the installation and run of the administration and development Databases, and in the user standard PAF procedures).

| Characteristics | Value                             |
|-----------------|-----------------------------------|
| Size            | Approx. 20 blocks of 6,080 bytes  |
| Organization    | PDS                               |
| DCB             | Recfm=FB, Lrecl=80, Blksize=6,080 |
| Dsname          | &INDSN..BVPSY                     |

The information on names and disks (catalog) is initialized according to the parameters entered at installation.

### CAUTION

The information should not be modified except in particular cases.

| Member    | Contents or format | Special indication                     |
|-----------|--------------------|----------------------------------------|
| DFBVPAE   | DELETE/DEFINE AE   |                                        |
| DFBVPGJ   | DELETE/DEFINE GJ   |                                        |
| DFBVPGN   | DELETE/DEFINE GN   |                                        |
| DFBVPGR   | DELETE/DEFINE GR   |                                        |
| DFBVPGS   | DELETE/DEFINE GS   |                                        |
| DFBVPGU   | DELETE/DEFINE GU   |                                        |
| DFBVPGY   | DELETE/DEFINE GY   |                                        |
| DFBVPLB   | DELETE/DEFINE LB   |                                        |
| DFBVPPA   | DELETE/DEFINE PA   | Updatable (1)                          |
| DFBVpsc   | DELETE/DEFINE SC   |                                        |
| DFBVPSG   | DELETE/DEFINE SG   |                                        |
| DFBVPSN   | DELETE/DEFINE SN   |                                        |
| DFBVpSP   | DELETE/DEFINE SP   |                                        |
| DFBVpSR   | DELETE/DEFINE SR   |                                        |
| DFBVpSS   | DELETE/DEFINE SS   |                                        |
| DFBVpTR   | DELETE/DEFINE TR   |                                        |
| DFBVpWS   | DELETE/DEFINE WS   |                                        |
| DFDSMSDC  | DELETE/DEFINE DC   | DSMS: Development Database element (2) |
| DFSYIANA  | DEFINE             | Updatable                              |
| DLSYIANA  | DELETE             |                                        |
| DFSYSEXT  | DEFINE             | Updatable (3)                          |
| DLSYSEXT  | DELETE             |                                        |
| DFSYS PAF | DEFINE             | Updatable (4)                          |
| DLSYS PAF | DELETE             |                                        |
| DFSYTRDU  | DEFINE             |                                        |
| DLSYTRDU  | DELETE             |                                        |
| DFSYTRPF  | DEFINE             |                                        |
| DFWKREOR  | DEFINE             |                                        |
| DLWKREOR  | DELETE             |                                        |
| DFWYREOR  | DEFINE             |                                        |
| DLWYREOR  | DELETE             |                                        |
| DFWKROAD  | DEFINE             |                                        |

| Member   | Contents or format | Special indication  |
|----------|--------------------|---------------------|
| DLWKROAD | DELETE             |                     |
| DFWYROAD | DEFINE             |                     |
| DLWYROAD | DELETE             |                     |
| DFTABTDF | DELETE/DEFINE TD   | TABLES: Description |
| DLPQCE   | DELETE             |                     |
| KEY01    | 00000001           |                     |
| LIBVPAE  | LISTCAT of AE      |                     |
| LIBVPGJ  | LISTCAT of GJ      |                     |
| REWYMY   | REPRO              |                     |
| VERIFAE  | VERIFY (PAC7AE)    |                     |
| VERIFAJ  | VERIFY (PAC7AJ)    |                     |
| VERIFAN  | VERIFY (PAC7AN)    |                     |
| VERIFAR  | VERIFY (PAC7AR)    |                     |
| VERIFAY  | VERIFY (PAC7AY)    |                     |
| VERIFEM  | VERIFY (PAC7EM)    |                     |
| VERIFGJ  | VERIFY (PAC7GJ)    |                     |
| VERIFGN  | VERIFY (PAC7GN)    |                     |
| VERIFGR  | VERIFY (PAC7GR)    |                     |
| VERIFGU  | VERIFY (PAC7GU)    |                     |
| VERIFGY  | VERIFY (PAC7GY)    |                     |
| VERIFLB  | VERIFY (PAC7LB)    |                     |
| VERIFQJ  | VERIFY (PAC7QJ)    |                     |
| VERIFSC  | VERIFY (PAC7SC)    |                     |
| VERIFSG  | VERIFY (PAC7SG)    |                     |
| VERIFSN  | VERIFY (PAC7SN)    |                     |
| VERIFSP  | VERIFY (PAC7SP)    |                     |
| VERIFSR  | VERIFY (PAC7SR)    |                     |
| VERIFSS  | VERIFY (PAC7SS)    |                     |
| VERIFTD  | VERIFY (PAC7TD)    |                     |
| SRTPC25  | SORT FIELDS        |                     |
| SRTREO1  | SORT FIELDS        |                     |
| SRTREO2  | SORT FIELDS        |                     |
| MAXKEY   | maxi. records      |                     |

| Member   | Contents or format | Special indication |
|----------|--------------------|--------------------|
| REPRO    | IDCAMS input       |                    |
| REPRO999 | IDCAMS input       |                    |

- (1) The size depends on the number of PAF requests sent when using the file in the on-line mode.
- (2) must be used if DSMS is to be installed. installed.
- (3) Size depending on the number of requests sent by the deep extractor.
- (4) Size depending on the PAF requests sent in the batch mode when using the file.

### Batch Procedure JCL Libraries

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

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

In some cases, its characteristics must be the following ones:

| Characteristics | Value                             |
|-----------------|-----------------------------------|
| Size            | Approx.150 blocks of 6,080 bytes  |
| Organization    | PDS                               |
| DCB             | Recfm=FB, Lrecl=80, Blksize=6,080 |
| Dsname          | user defined.                     |

## Administration Database

### Administration Database Files

- Data file, GR.

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-RRDS                    |
| Recsize         | 144                          |
| CI size         | 4,096                        |
| Utilization     | Batch and on-line            |
| Dsname          | &INDSV..BVPGR                |
| Size            | 27 records per C.I. of 4,096 |

- Extension data file, GY.

| Characteristics | Value                       |
|-----------------|-----------------------------|
| Organization    | VSAM-RRDS                   |
| Reclsize        | 1018                        |
| CI size         | 4,096                       |
| Utilization     | Batch and on-line           |
| Dsname          | &INDSV..BVPGY               |
| Size            | 4 records per C.I. of 4,096 |

- Index file, GN.

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-KSDS                    |
| Reclsize        | 59                           |
| CI size         | 4,096 (for index and data)   |
| Key             | 49 (position 0)              |
| Utilization     | Batch and TP                 |
| Dsname          | &INDSV..BVPGN                |
| Size            | 62 records per C.I. of 4,096 |

- Journal file, GJ.

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-RRDS                    |
| Reclsize        | 170                          |
| CI size         | 4096                         |
| Utilization     | Batch and TP                 |
| Dsname          | &INDSV..BVPGJ                |
| Size            | 23 records per C.I. of 4,096 |

- User file, GU.

| Characteristics | Value             |
|-----------------|-------------------|
| Organization    | VSAM-RRDS         |
| Reclsize        | 80                |
| CI size         | 4,096             |
| Utilization     | Batch and on-line |

| Characteristics | Value                        |
|-----------------|------------------------------|
| Dsname          | &INDSV..BVPGU                |
| Size            | 50 records per C.I. of 4,096 |

### Administration Database Backup

The administration Database backup consists of two sequential generation files.

- Backup of the Database (PE).

This is a backup file of the administration Database components: index (GN), Data (GR) and extension (GY) in a sequential format.

| Characteristics | Value                                 |
|-----------------|---------------------------------------|
| Organization    | Sequential, generation                |
| Dsname          | &INDSN..BVPPE(n)                      |
| DCB             | Recfm=VB, Lrecl=1,023, Blksize=27,998 |
| Utilization     | batch                                 |
| Size            | 144 bytes per data                    |
|                 | 1,023 bytes per extension data        |
|                 | 59 bytes per index                    |

- Backup of the journal (PK).

The purpose of this file is to store all update transactions that have affected the administration Database since its installation and that have passed through the transactions file (GJ).

When the size of this file becomes incompatible with operation requirements, the ARAD procedure enables you to split it into several files, among which only the most recent one is used on a regular basis.

| Characteristics | Value                             |
|-----------------|-----------------------------------|
| Organization    | Sequential, generation            |
| Dsname          | &INDUN..BVPPK(n)                  |
| DCB             | Recfm=FB, Lrecl=170, Blksize=6800 |
| Utilization     | batch                             |

## Development Database

### Development Database Files

The VA Pac Database files contain all data related to applications development.

- The Data file (AR).

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-RRDS                    |
| Reclsize        | 144                          |
| CI size         | 4,096                        |
| Utilization     | Batch and TP                 |
| Dsname          | &INDUV.&BASE.AR              |
| Size            | 27 records per C.I. of 4,096 |

- The extension data file (AY).

| Characteristics | Value                       |
|-----------------|-----------------------------|
| Organization    | VSAM-RRDS                   |
| Reclsize        | 1,018                       |
| CI size         | 4,096                       |
| Utilization     | Batch and On-line           |
| Dsname          | &INDUV.&BASE.AY             |
| Size            | 4 records per C.I. of 4,096 |

- The index file (AN).

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-KSDS                    |
| Reclsize        | 59                           |
| CI size         | 4,096 (for index and data)   |
| Key             | 49 (position 0)              |
| Utilization     | Batch and On-line            |
| Dsname          | &INDUV.&BASE.AN              |
| Size            | 62 records per C.I. of 4,096 |

- The journal file (AJ).

All the transactions performed on the database in batch or on-line mode are saved for two reasons:



- To allow database restoration if the system standard securities were to fail.
- This information may be used for statistical purposes.

These transactions are usually stored in the transactions backup file (PJ). The transactions file is used temporarily, between the moment transactions are processed by the system and the moment they are saved on their final storage medium by the ARCH procedure.

| Characteristics | Value                        |
|-----------------|------------------------------|
| Organization    | VSAM-RRDS                    |
| Reclsize        | 170                          |
| CI size         | 4096                         |
| Utilization     | Batch and on-line            |
| Dsname          | &INDUV..&BASE.AJ             |
| Size            | 23 records per C.I. of 4,096 |

### Development Database Parameter Library

| Characteristics | Value                             |
|-----------------|-----------------------------------|
| Size            | Approx. 10 blocks of 6,080        |
| Organization    | PDS                               |
| DCB             | Recfm=FB, Lrecl=80, Blksize=6,080 |
| Dsname          | &INDUN..&BASE.SY                  |

This library contains the SYSIN of the IDCAMS utility implemented in the batch procedures used for the working of the development Databases.

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

- DELETE/DEFINES of the database files:

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

Important note: 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 (development Database Journal):

Its name has the LIXnnAJ format.

## Development Database Backup Files

According to the 'Dispatch' option taken into account during restoration, the Database backup is either made of two sequential generation files (PC and PJ) or of four sequential generation files (PC, PD, PY and PJ).

- Database or Data backup (PC).

This is a sequential backup file of the Development Database components (Data (AR), Index (AN), and extension (AY) if 'Dispatch' option) or of Data only (AR).

| Characteristics | Value                               |
|-----------------|-------------------------------------|
| Organization    | Sequential, generation              |
| Dsname          | &INDUN..&BASE.PC(n)                 |
| DCB             | Recfm=VB, Lrecl=1023, Blksize=27998 |
| Utilization     | Batch                               |
| Size            | 144 bytes per data                  |
|                 | 1,018 per extension data            |
|                 | 59 bytes per index                  |

- The backup of the Development Database index (PD) if 'Dispatch' option.

| Characteristics | Value                               |
|-----------------|-------------------------------------|
| Organization    | Sequential, generation              |
| Dsname          | &INDUN..&BASE.PD(n)                 |
| DCB             | Recfm=VB, Lrecl=1023, Blksize=27998 |
| Utilization     | Batch                               |
| Size            | 59 bytes per index                  |

- The backup of the Development Database extension data (PY) if 'Dispatch' option.

| Characteristics | Value                               |
|-----------------|-------------------------------------|
| Organization    | Sequential, generation              |
| Dsname          | &INDUN..&BASE.PY(n)                 |
| DCB             | Recfm=VB, Lrecl=1023, Blksize=27998 |
| Utilization     | Batch                               |
| Size            | 1018 bytes per index                |

- Journal backup (PJ)

The purpose of this file is to store all the update transactions performed in the development Database since its installation, and that have passed through the transactions file (AJ).

When the size of this file becomes incompatible with operation requirements, the ARCH procedure enables you to split it into several files, among which only the most recent one is used on a regular basis.

| Characteristics | Value                              |
|-----------------|------------------------------------|
| Organization    | Sequential, generation             |
| Dsname          | &INDUN..&BASEPJ(n)                 |
| DCB             | Recfm=FB, Lrecl=170, Blksize=27880 |
| Utilization     | batch                              |

## Modules - Specific Files

### Pac/Impact:

- File of already-impacted criteria (FQ).

| Characteristics | Value                                                                |
|-----------------|----------------------------------------------------------------------|
| Organization    | Sequential with generation                                           |
| DCB             | Recfm=FB, Lrecl=100, Blksize=21600                                   |
| Dsname          | &INDUN..&USER.&BASE.FQ(n)                                            |
| Utilization     | Memorize the impact search criteria that have already been processed |

- Search criteria or entry points file (FH).

| Characteristics | Value                                                       |
|-----------------|-------------------------------------------------------------|
| Organization    | Sequential with generation                                  |
| DCB             | Recfm=FB, Lrecl=160, Blksize=24000                          |
| Dsname          | &INDUN..&USER.&BASE.FH(n)                                   |
| Utilization     | Memorize impact search criteria for the next IANA execution |

- Reduced file of criteria for purge (FR).

| Characteristics | Value                             |
|-----------------|-----------------------------------|
| Organization    | Sequential with generation        |
| DCB             | Recfm=FB, Lrecl=72, Blksize=21600 |

| Characteristics | Value                                              |
|-----------------|----------------------------------------------------|
| Dsname          | &INDUN..&USER.&BASE.FR(n)                          |
| Utilization     | Purge the impact search criteria in a text editor. |

- Impact result file (FO).

| Characteristics | Value                                            |
|-----------------|--------------------------------------------------|
| Organization    | Sequential with generation                       |
| DCB             | Recfm=FB, Lrecl=260, Blksize=26000               |
| Dsname          | &INDUN..&USER.&BASE.FO(n)                        |
| Utilization     | Memorize all the results of the impact analysis. |

- File of entities to be analysed (FP).

| Characteristics | Value                                                              |
|-----------------|--------------------------------------------------------------------|
| Organization    | VSAM-KSDS                                                          |
| Reclsize        | 33                                                                 |
| CI size         | 4,096                                                              |
| key             | 33 (position 0)                                                    |
| Dsname          | &INDUV..&USER.&BASE.FP                                             |
| Utilization     | Restrict the impact analysis to the entities specified in the file |

### DSMS:

When the DSMS function (refer to the 'DSMS' manual) is available on site, a DSMS file is accessed for each development database, in batch and on-line modes.

This file contains the list of the entities concerned by each change. The change number is entered by the user on the Database sign-on screen.

- The DSMS file of the development Database elements (DC)

| Characteristics | Value                                 |
|-----------------|---------------------------------------|
| Organization    | VSAM-KSDS                             |
| Reclsize        | mini 50, maxi 168                     |
| CI size         | 4096                                  |
| Key             | 31 (position 2)                       |
| Utilization     | Accessed by batch and on-line updates |

| Characteristics | Value                                           |
|-----------------|-------------------------------------------------|
| Ddname batch    | PAC7DC (Proc. UPDT, REST, RESY)                 |
| Ddname CICS     | ddy0DC (dd=ROOTD, y=ROOT2 of 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 if the DSMS has not been installed on the site yet.

**PAF:**

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

All the user on-line programs which access Databases with the same root need an indexed work file to use the PAF and PUF functions.

| Characteristics | Value                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------|
| Organization    | VSAM-KSDS                                                                                     |
| Reclsize        | average: 200, maxi: 539                                                                       |
| CI size         | 4,096                                                                                         |
| Key             | 37 (position 2)                                                                               |
| Utilization     | Updated by the BVPTPST and/or BVPTPWS sub-programs, which are called by On-line user programs |
| Dsname          | &INDSV..BVPPA                                                                                 |
| Ddname          | BVPPA                                                                                         |

- Work file for PAF in batch mode

All the user batch programs need an indexed work file to use the PAF function. This file is allocated for the job duration and is destroyed at the end of the job.

| Characteristics | Value                                                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| Organization    | VSAM-KSDS                                                                                                                  |
| Reclsize        | average: 170, maxi: 1,031                                                                                                  |
| CI size         | 4,096                                                                                                                      |
| Key             | 12 (position 0)                                                                                                            |
| Utilization     | Updated by the BVPBBT98 sub- program which is called by BVPBBTST/BVPBBTWS (PAF sub- programs called by the user programs). |

| Characteristics | Value                |
|-----------------|----------------------|
| Dsname          | &INDUV..SYSPAF.&USER |

### PAF EXTENSION

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

| Characteristics | Value             |
|-----------------|-------------------|
| Organization    | VSAM-KSDS         |
| Resize          | 230               |
| CI size         | 4,096             |
| Key             | 49 (position 0)   |
| Utilization     | Batch and On-line |
| Dsname          | &INDUV..BVPGS     |

### **Complementary Libraries and Files**

Complementary Dictionary files are automatically downloaded via SMP/E in the hlq.SBVPDIC PDS.

The description of these files is the following one:

### PQC FUNCTION

- The BVPQCREN and BVPQCRFR members contain the standard quality rules.

- SPECIFIC MEMBERS OF PACBENCH QUALITY CONTROL FUNCTION

| Member  | Contents of format         | Comments       |
|---------|----------------------------|----------------|
| BVPQCRE | Sequential file in English | Standard rules |
| BVPQCRF | Sequential file in French  | Standard rules |

---

## Chapter 9. Appendix

---

### Installation of the Administration Database Model

#### VING - Introduction

The VING procedure performs the batch update of the Administration Database using transactions provided by IBM.

#### EXECUTION CONDITIONS

The database must be closed to on-line processing.

#### ABNORMAL EXECUTIONS

Refer to Chapter 'Batch Procedures', Subchapter 'Abnormal Executions' of the Administrator's Guide.

When an abend occurs during the execution of the BVPACI30 or BVPACI40 program, the Database is no longer consistent.

Once the problem has been solved, the Database must be reloaded with a retrieval of archived transactions and the VING procedure must be executed again.

#### VING - Input / Processing / Results

The VING procedure requires two types of user input:

- A line which contains the User ID as well as the operation to perform,
- The transactions which enable the creation of IBM Meta-Entities and the retrieval of client User Entities with the 'extension' format: the user should never modify the content of these transactions.

The structure of the line is the following:

| Position | Length | Value    | Meaning                           |
|----------|--------|----------|-----------------------------------|
| 2        | 1      | '*'      | Line code                         |
| 3        | 8      | uuuuuuuu | User code                         |
| 11       | 8      | pppppppp | Password                          |
| 19       | 3      | '***'    | Library code                      |
| 29       | 4      | 'VINS'   |                                   |
| 33       | 1      | 'I'      | Installation of IBM Meta-Entities |

## PRINTED OUTPUT

The procedure outputs:

- a report listing the executed programs,
- the list of requests with the errors detected if any,
- a report of the updates performed by the installation.

## RESULT

Once the update is performed, the network is ready for either on line or batch use.

## NOTE

Extracted transactions to be used by the ROAD procedure must be copied in a catalogued file by taking the following - otherwise comment - line into account:

```
'//*VINS.PAC7MR DD DSN=ROADFILE'.
```

## **VING - Description of Steps**

INPUT RECOGNITION: PTU001

INITIALIZATION OF THE KSDS WORKING FILE: IDCAMS

VSAM FILES CHECK: IDCAMS

UPDATE OF THE ADMINISTRATION DATABASE: VING

| Code   | Physical name                    | Type  | Label                             |
|--------|----------------------------------|-------|-----------------------------------|
| PAC7AE | &INDSV..BVP AE                   | Input | error labels                      |
| PACGGN | &INDSV..BVP GN<br>&INDSV..BVP GN | Input | Administration Database Index     |
| PACGGR | &INDSV..BVP GR                   | Input | Administration Database Data      |
| PACGGY | &INDSV..BVP GY                   | Input | Administration Database Extension |
| PACGGU | &INDSV..BVP GU                   | Input | Administration Database Users     |
| PAC7AJ | &INDSV..BVP GJ                   | Input | Administration Database Journal   |
| PAC7AN | &INDSV..BVP GN                   | Input | Administration Database Index     |
| PAC7AR | &INDSV..BVP GR                   | Input | Administration Database Data      |
| PAC7AY | &INDSV..BVP GY                   | Input | Administration Database Extension |
| PAC7MA | &FDIC                            | Input | IBM Meta-Entities Transactions    |



| Code     | Physical name | Type         | Label                               |
|----------|---------------|--------------|-------------------------------------|
| PAC7MB   | &&VINGMB      | Input        | User Input                          |
| PAC7BM   | &&PACXBM      | Input/Output | Work file                           |
| PAC7WD   | &&PACXWD      | Input/Output | Extracted Transactions              |
| PAC7ES   | &&PACXES      | Input/Output | Extracted Transactions              |
| PAC7TD   | &&PACXTD      | Input/Output | Extracted Transactions              |
| PAC7MR   | &&MR          | Output       | Extracted Transactions for ROAD     |
| PAC7MX   | DUMMY         | Output       | Non extracted entities              |
| PAC7IA   |               | Report       | General Report of Programs sequence |
| PAC7EE   |               | Report       | Report                              |
| PAC7EQ   |               | Report       | Report                              |
| PAC7EU   |               | Report       | Report                              |
| PAC7ER   |               | Report       | Report                              |
| PAC7EZ   |               | Report       | Report                              |
| PAC7DD   |               | Report       | Report                              |
| PAC7IE   |               | Report       | Report                              |
| PAC7IF   |               | Report       | Report                              |
| PAC7IG   |               | Report       | Report                              |
| PAC7IH   |               | Report       | Report                              |
| SORTWK01 |               | Sort         |                                     |
| SORTWK02 |               | Sort         |                                     |
| SORTWK03 |               | Sort         |                                     |

Return codes:

- 0: No error
- 4: Warning
- 8: No access authorization for batch procedure or invalid database (in such a case, restart the procedure with 'D' in column 16)
- 12: Input-output error on a file.

DELETION OF THE KSDS WORKING FILE: IDCAMS

### VING - Execution JCL

```

/** -----
/** VISUALAGE PACBASE
/**

```

```

//* -----
//* - DATABASE ADMINISTRATOR
//* - DICTIONARY UPDATING WITH IBM MODEL ADMIN -
//* -----
//*
/** THE VING PROCEDURE PERFORMS A BATCH UPDATE OF THE DATA
/** BASE ADMIN. , BASED ON TRANSACTIONS PROVIDED.
/**
/** INPUT :
/** - USER IDENTIFICATION LINE (REQUIRED)
/** COL 2 : '*'
/** COL 3 : USERIDXX
/** COL 11 : PASSWORD
/** COL 27 : ' ' - NO UPDATE
/** 'S' - UPDATE SIMULATION WITH PRINTING OF
/** OF LIST OF U.E.'S TO BE CANCELLED
/** 'F' - FORCING THE CANCELLATION OF U.E.'S
/** WITH THE SAME CODES IN LOWER
/** LEVEL LIBRARIES
/** -----
/**BVPVING PROC INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
/** INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
/** INDUV='$INDUV', INDEX OF USER VSAM FILES
/***: VSAMCAT='$VCAT', USER VSAM CATALOG
/***: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
/** STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
/** SORTLIB='$BIBT', SORT LIBRARY
/** OUT=$OUT, OUTPUT CLASS
/** OUTL=$OUT, OUTPUT CLASS OF REPORTS
/** FDIC=, DSN USER'S ADMINISTRATION MODEL
/** USER=, USER CODE
/** LSR='BLSR', LSR BATCH SYSTEM NAME
/** UWK=$UWK, WORK UNIT
/** SPAMB='(TRK,(5,1),RLSE)', WORK FILE SPACE
/** SPAWK='(TRK,(50,10),RLSE)' WORK FILE SPACE
/*******
/**INPUT EXEC PGM=BVPTU001
/**-----
/**STEPLIB DD DSN=&STEPLIB,DISP=SHR
/** DD DSN=$BCOB,DISP=SHR
/**CARTE DD DDNAME=SYSIN
/**PAC7MB DD DSN=&&VINGMB,DISP=(,PASS),
/** UNIT=UWK,SPACE=(TRK,(5,1),RLSE),
/** DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
/**PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER'
/**-----
/**STEPLIB DD DSN=&STEPLIB,DISP=SHR
/** DD DSN=$BCOB,DISP=SHR
/**SYSOUT DD SYSOUT=&OUT
/**PACRIN DD DSN=&INDSN..BVPSY(DFSYSEXT),DISP=SHR
/**PACROU DD DSN=&&DFSYSEXT,DISP=(,PASS),SPACE=(TRK,1),
/** UNIT=UWK,
/** DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
/**DEFINE EXEC PGM=IDCAMS
/**-----

```

```

//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DFSYSEXT,DISP=(OLD,DELETE)
//MAXKEY EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSPAF DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//MAXKEY DD DSN=&INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(REPRO999),DISP=SHR
//VERIFY EXEC PGM=IDCAMS
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PACGGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//PACGGU DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGJ),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//*
//VINS EXEC PGM=BVPVINS,REGION=0K
//*-----
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=40','BUFNI=30')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=40')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=40')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=40')
//SYSEXT DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//PAC7IA DD SYSOUT=&OUTL
//PAC7DD DD SYSOUT=&OUTL
//PAC7EE DD SYSOUT=&OUTL

```

```

//PAC7EQ DD SYSOUT=&OUTL
//PAC7ER DD SYSOUT=&OUTL
//PAC7EU DD DUMMY
//PAC7EZ DD SYSOUT=&OUTL
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7IG DD SYSOUT=&OUTL
//PAC7IH DD SYSOUT=&OUTL
//PAC7MA DD DSN=&FDIC,DISP=SHR
//PAC7MB DD DSN=&&VINGMB,DISP=(OLD,DELETE,DELETE)
//PAC7BM DD DSN=&&PACXBM,DISP=(,DELETE),UNIT=&UWK,
//
DCB=BLKSIZE=3440,SPACE=&SPAMB
//PAC7ES DD DSN=&&PACXES,DISP=(,DELETE),UNIT=&UWK,
//
SPACE=&SPAWK,
//
DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//PAC7WD DD DSN=&&PACXWD,DISP=(,DELETE),UNIT=&UWK,
//
SPACE=&SPAWK,
//
DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7MR DD DSN=&&MR,DISP=(,PASS),UNIT=&UWK,
//
SPACE=&SPAMB,
//
DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7MX DD DUMMY
//PAC7TD DD DSN=&&TD,DISP=(,PASS),UNIT=&UWK,
//
SPACE=&SPAWK,
//
DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//SYSUDUMP DD SYSOUT=&OUT
//*
//PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER',COND=EVEN
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//
DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDSN..BVPSY(DLSYSEXT),DISP=SHR
//PACROU DD DSN=&&DLSYSEXT,DISP=(,PASS),SPACE=(TRK,1),
//
UNIT=&UWK,
//
DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELETE EXEC PGM=IDCAMS,COND=EVEN
//*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLSYSEXT,DISP=(OLD,DELETE)

```

---

## Installation of the Development Database Model

### VINS - Introduction

The VINS procedure performs the batch update of the network using transactions provided by IBM.

Entities are created in inter-Library mode and in the 0001Z session. They can thus be accessed from any Library of the network and from any session.

### EXECUTION CONDITIONS

The database must be closed to on-line processing.

### ABNORMAL EXECUTIONS

Refer to Chapter 'Batch Procedures', Subchapter 'Abnormal Executions' of the Administrator's Guide.

When an abend occurs during the execution of the BVPACI30 or BVPACI40 programs, the Database is no longer consistent.

Once the problem has been solved, the Database must be reloaded with a retrieval of archived transactions and the VINS procedure must be executed again.

## **VINS - Input / Processing / Results**

The VINS procedure requires two types of user input:

- a line which contains the User ID as well as the operation to perform,
- the transactions which enable the creation of IBM Meta-Entities and the retrieval of client User Entities with the 'extension' format: the user should never modify the content of these transactions.

The structure of the line is the following:

| Position | Length | Value    | Meaning                                                |
|----------|--------|----------|--------------------------------------------------------|
| 2        | 1      | '*'      | Line code                                              |
| 3        | 8      | uuuuuuuu | User code                                              |
| 11       | 8      | pppppppp | Password                                               |
| 19       | 3      | '***'    | Library code                                           |
| 29       | 4      | 'VINS'   |                                                        |
| 33       | 1      | 'I'      | Installation of IBM Meta-Entities                      |
|          |        | 'R'      | Retrieval of User Entities with the 'extension' format |
|          |        | ' '      | 'I' + 'R'                                              |

### PRINTED OUTPUT

The procedure prints

- a report listing the executed programs,
- the list of requests with the errors detected if any,
- a report of the updates performed by the installation,
- a report of the updates performed by the retrieval,

## RESULT

Once the update is performed, the network is ready for either on-line or batch use.

For the retrieval, a sequential file of purge transactions for the reorganization procedure is generated. After the retrieval, the reorganization of the Database is required.

## NOTE

Extracted transactions to be used in input by the REOR procedure must be copied in a cataloged file by taking the following - otherwise comment - line into account:

```
'//*VINS.PAC7MR DD DSN=REORFILE'.
```

## **VINS - Description of Steps**

INPUT RECOGNITION: PTU001

INITIALIZATION OF THE KSDS WORKING FILE: IDCAMS

VSAM FILES CHECK: IDCAMS

UPDATE OF THE NETWORK: VINS

| Code   | Physical name    | Type  | Label                             |
|--------|------------------|-------|-----------------------------------|
| PAC7AE | &INDSV..BVP AE   | Input | Error Labels                      |
| PACGGN | &INDSV..BVP GN   | Input | Administration Database Index     |
| PACGGR | &INDSV..BVP GR   | Input | Administration Database Data      |
| PACGGY | &INDSV..BVP GY   | Input | Administration Database Extension |
| PACGGU | &INDSV..BVP GU   | Input | Administration Database Users     |
| PAC7AJ | &INDUV..&BASE.AJ | Input | Development Database Journal      |
| PAC7AN | &INDUV..&BASE.AN | Input | Development Database Index        |
| PAC7AR | &INDUV..&BASE.AR | Input | Development Database Data         |
| PAC7AY | &INDUV..&BASE.AY | Input | Development Database Extension    |

| Code     | Physical name | Type         | Label                                  |
|----------|---------------|--------------|----------------------------------------|
| PAC7MA   | &FDIC         | Input        | IBM Meta-Entities Transactions         |
| PAC7MB   | &&VINSMB      | Input        | User Input                             |
| PAC7BM   | &&PACXBM      | Input/Output | Work File                              |
| PAC7WD   | &&PACXWD      | Input/Output | Extracted Transactions                 |
| PAC7ES   | &&PACXES      | Input/Output | Extracted Transactions                 |
| PAC7TD   | &&PACXTD      | Input/Output | Extracted Transactions                 |
| PAC7MR   | &&MR          | Output       | Extracted Transactions for REOR        |
| PAC7MX   | DUMMY         | Output       | Non extracted entities                 |
| PAC7IA   |               | Report       | Complete printing of programs sequence |
| PAC7EE   |               | Report       | Report                                 |
| PAC7EQ   |               | Report       | Report                                 |
| PAC7EU   |               | Report       | Report                                 |
| PAC7ER   |               | Report       | Report                                 |
| PAC7EZ   |               | Report       | Report                                 |
| PAC7DD   |               | Report       | Report                                 |
| PAC7IE   |               | Report       | Report                                 |
| PAC7IF   |               | Report       | Report                                 |
| PAC7IG   |               | Report       | Report                                 |
| PAC7IH   |               | Report       | Report                                 |
| SORTWK01 |               | Sort         |                                        |
| SORTWK02 |               | Sort         |                                        |
| SORTWK03 |               | Sort         |                                        |

Return codes:

- 0 : No error detected on files
- 4 : Erroneous record in journal file (Date or session number not numeric)
- 8: No access authorization for batch procedure or invalid database (in such a case, restart the procedure with 'D' in column 16)
- 12: Input-output error on a file

DELETION OF THE KSDS WORKING FILE: IDCAMS

## VINS - Execution JCL

```

//* -----
//* VISUALAGE PACBASE
//*
//* -----
//* - DICTIONARY UPDATING WITH IBM MODEL DEVPT -
//*
//* -----
//*
//* THE VINS PROCEDURE PERFORMS A BATCH UPDATE OF THE
//* DATABASE, BASED ON TRANSACTIONS PROVIDED.
//*
//* INPUT :
//* - USER IDENTIFICATION LINE (REQUIRED)
//* COL 2 : '*'
//* COL 3 : USERIDXX
//* COL 11 : PASSWORD
//* COL 27 : ' ' - NO UPDATE
//* 'S' - UPDATE SIMULATION WITH PRINTING OF
//* OF LIST OF U.E.'S TO BE CANCELLED
//* 'F' - FORCING THE CANCELLATION OF U.E.'S
//* WITH THE SAME CODES IN LOWER
//* LEVEL LIBRARIES
//* -----
//*
//BVPVINS PROC BASE=$BASE, CODE OF DEVPT DATABASE
// INDSV='$INDSV', INDEX OF SYSTEM VSAM FILES
// INDSN='$INDSN', INDEX OF SYSTEM NON VSAM FILES
// INDUV='$INDUV', INDEX OF USER VSAM FILES
//*: VSAMCAT='$VCAT', USER VSAM CATALOG
//*: SYSTCAT='$SCAT', SYSTEM VSAM CATALOG
// STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
// SORTLIB='$BIBT', SORT LIBRARY
// OUT=$OUT, OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS OF REPORTS
// FDIC=, DSN USER'S DEVELOPMENT MODEL
// USER=, USER CODE
// LSR='BLSR', LSR BATCH SYSTEM NAME
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(5,1),RLSE)', WORK FILE SPACE
// SPAWK='(TRK,(50,10),RLSE)' WORK FILE SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&VINSMB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT

```



```

//PACRIN DD DSN=&INDSN..BVPSY(DFSYSEXT),DISP=SHR
//PACROU DD DSN=&&DFSYSEXT,DISP=(,PASS),SPACE=(TRK,1),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DEFINE EXEC PGM=IDCAMS
//*-----
/*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYS PRINT DD SYSOUT=&OUT
//SYS IN DD DSN=&&DFSYSEXT,DISP=(OLD,DELETE)
//MAX KEY EXEC PGM=IDCAMS
//*-----
/*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYS PRINT DD SYSOUT=&OUT
//SYS PAF DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//MAX KEY DD DSN=&INDSN..BVPSY(MAXKEY),DISP=SHR
//SYS IN DD DSN=&INDSN..BVPSY(REPRO999),DISP=SHR
//VERIFY EXEC PGM=IDCAMS
//*-----
/*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
/*: DD DSN=&SYSTCAT,DISP=SHR
//SYS PRINT DD SYSOUT=&OUT
//PAC GGN DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC GGR DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC GGY DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC GGU DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//PAC7AN DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AY DD DSN=&INDUV..&BASE.AY,DISP=SHR
//SYS IN DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGY),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAJ),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAN),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAR),DISP=SHR
// DD DSN=&INDSN..BVPSY(VERIFAY),DISP=SHR
//*
//VINS EXEC PGM=BVPVINS,REGION=0K
//*-----
/*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
/*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYS OUT DD SYSOUT=&OUT
//SYS OUX DD SYSOUT=&OUT
//SYS PRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,DISP=SHR
//PAC7AJ DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//ANLSR DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY DD SUBSYS=(&LSR,'DDNAME=AYLSR','BUFND=40')

```

```

//GNLSR DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=40','BUFNI=30')
//GRLSR DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=40')
//GYLSR DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY DD SUBSYS=(&LSR,'DDNAME=GYLSR','BUFND=40')
//GULSR DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=40')
//SYSEXT DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//PAC7IA DD SYSOUT=&OUTL
//PAC7DD DD SYSOUT=&OUTL
//PAC7EE DD SYSOUT=&OUTL
//PAC7EQ DD SYSOUT=&OUTL
//PAC7ER DD SYSOUT=&OUTL
//PAC7EU DD DUMMY
//PAC7EZ DD SYSOUT=&OUTL
//PAC7IE DD SYSOUT=&OUTL
//PAC7IF DD SYSOUT=&OUTL
//PAC7IG DD SYSOUT=&OUTL
//PAC7IH DD SYSOUT=&OUTL
//PAC7MA DD DSN=&FDIC,DISP=SHR
//PAC7MB DD DSN=&&VINSMB,DISP=(OLD,DELETE,DELETE)
//PAC7BM DD DSN=&&PACXBM,DISP=(,DELETE),UNIT=&UWK,
// DCB=BLKSIZE=3440,SPACE=&SPAMB
//PAC7ES DD DSN=&&PACXES,DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//PAC7WD DD DSN=&&PACXWD,DISP=(,DELETE),UNIT=&UWK,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7MR DD DSN=&&MR,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMB,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7MX DD DUMMY
//PAC7TD DD DSN=&&TD,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//SYSUDUMP DD SYSOUT=&OUT
//*
//PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER',COND=EVEN
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDSN..BVPSY(DLSYSEXT),DISP=SHR
//PACROU DD DSN=&&DLSYSEXT,DISP=(,PASS),SPACE=(TRK,1),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELETE EXEC PGM=IDCAMS,COND=EVEN
//*-----

```

```
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLSYSEXT,DISP=(OLD,DELETE)
```







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