

VisualAge Pacbase



# Convergence plan: Installation and Procedures OS/390 CICS

*Version 3.5*





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## Note

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# Chapter 1. Installation

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## Setting

### Preparation

The preparation consists of three stages:

- Receiving the product with the SMP/E (System Modification Program/Extended) utility in dedicated PDSs.

This stage must be performed by the system staff who are accustomed to installing IBM products with SMP/E.

- Allocating a PDS file where all the installation and operation JCLs will be saved.
- Executing the installation JCL from the PDS members created during the first stage.

#### Important note:

This installation is dedicated to implementing components which are specific to the migration procedures.

This implies that the SMP/E environment and the installation targets of any kind must be entirely distinct from the VA Pac installation.

#### Stage 1

The product is delivered on a CD-ROM.

To install it, you must:

- 1 - Download to Z/OS the sample JCLs provided on the CD-ROM.

On the CD-ROM, a file contains the sample JCLs: a JCL for the allocation of the compressed RELFILES and SMPMCS files, as well as the SMP/E configuration and installation JCLs.

- 1.1 - Allocate first the receiving file on Z/OS, either by parameterizing the JCL presented here below, or by directly creating it with all the required characteristics (tsouid represents the TSO user code):

```
//ALLOC1 EXEC PGM=IEFBR14
//*
//FTPALLO DD DSN=tsouid.HBVP950.SAMPLE.JCL.BIN,
```

```
//      DISP=(NEW,CATLG,DELETE),
//      DSORG=PS,RECFM=FB,LRECL=80,BLKSIZE=6160,
//      SPACE=(TRK,(2,1)),UNIT=SYSALLDA
// *      VOL=SER=&TVOL1
```

1.2 - Download the binary-formatted files provided on the CD-ROM to the Z/OS file already created.

To do so, perform an FTP transfer as follows:

1.2.1 - Copy the FTP sample command 'ftpini\_model.scr' provided on the CD-ROM to a working directory of your workstation and name it 'ftpini.scr' ; then follow the setting instructions contained in this file.

1.2.2 - Execute the FTP command -s:ftpini.scr from the working directory.

2 - Extract the sample JCLs with the TSO command RECEIVE INDA('tsouid.HBVP950.SAMPLE.JCL.BIN).

This creates the tsouid.HBVP950.TMP.JCLINST file with the following members:

- BVPALLOC
- BVPMAACC
- BVPMAPPP
- BVPMREC
- BVPXMIT
- BVP1DCSI
- BVP2ICSI
- BVP3ALLO
- BVP4DEFZ
- BVP5DDEF
- BVP6DDEF
- BVP7ALLO

3 - Download the compressed RELFILEs and the SMPMCS from the CD-ROM.

3.1 - Parameterize and submit the BVPALLOC JCL contained in tsouid.HBVP950.TMP.JCLINST in order to allocate, on Z/OS, the files required for the download operations.

To do so, follow the instructions included in the JCL.

3.2 - Download the binary-formatted files provided on the CD-ROM to the Z/OS files.

To do so, perform an FTP transfer as follows:

3.2.1 - Copy the FTP sample command 'ftpput\_model.scr' provided on the CD-ROM to a working directory of your workstation and name it 'ftpput.scr' ; then follow the setting instructions contained in this file.

3.2.2 - Execute the FTP command -s:ftpput.scr from the working directory.

4 - Extract the RELFILES files on Z/OS.

To do so, parameterize and submit the BVPXMIT JCL contained in tsouid.HBVP950.TMP.JCLINST

5 - From then on, you can install the product with SMP/E, using the JCLs contained in the tsouid.HBVP950.TMP.JCLINST PDS.

If a previous installation exists, you must follow the instructions indicated in the VA Pac Installation Manual, chapter 'Installation of Server Components', section 'Preparation', paragraph 'Remark in case of a previous SMP/E installation'.

If you install in a new context, you will have to create the SMP/E environment and install the FMID HBVP950, using the JCLs supplied.

This stage then consists of the following steps:

- Setting up the SMP/E environment and the 'Target zone' and 'Distribution zone' files of the root FMID HBVP950:
  - Defining the SMP/E cluster libraries (BVP1DCSI)
  - Initializing the SMP/E libraries (BVP2ICSI)
  - Allocating the SMP/E work files (BVP3ALLO)
  - Assigning the FMID (BVP4DEFZ)
  - Creating the DDDEF entries for technical files (BVP5DDEF)
  - Defining the 'Target zone' and 'Distribution zone' files (BVP6DDEF)
  - Allocating the 'Target zone' and 'Distribution zone' files (BVP7ALLO)
- Installing the components of the FMID HBVP950.
  - Execution of RECEIVE (BVPMREC)
  - Execution of APPLY (BVPMAPP)
  - Execution of ACCEPT (BVPMACC)

At the end of this first stage, all the components required for the installation are located in the following PDSs ; 'hlq' indicates the common prefix of the elements supplied (High-Level Qualifier):

- hlq.SBVPINST: all the 80-long files:
  - The error messages file (BVP AE)
  - The initial installation JCL (BVP MINIT)
  - A file which contains the installation and operation JCLs and procedures (BVP MTTAL)
  - The SMP/E sample JCLs
- hlq.SBVPMBR8: batch load-modules
- hlq.SBVPMF4: SC skeleton
- hlq.SBVPMF5: SG skeleton

## Stage 2

This stage is optional but recommended. It consists in allocating a PDS file with the following characteristics:

- Lrecl=80
- Size: around 100 tracks of a 3390 disk, 30-pad directory.

## Stage 3

Stage 3 consists in copying the 'hlq.SBVPINST(BVP MINIT)' JCL to the PDS mentioned in stage 2, modifying its parameters to match the constraints of the site and executing it to obtain the complete installation and operation JCL.

The BVP MINIT JCL executes the BVPMMJCL program loaded into the hlq.SBVPMBR8 PDS.

It must be completed as follows:

- Fill in '&hlq' with the value of the 'hlq' parameter used in the SMP/E first stage.
- In the '//SYSUT2 DD DSN=' field, enter the name of the file into which the complete installation-operation JCL is to be loaded.  
This file can be either a PDS member initially created to receive all the JCLs, 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 re-installations.

## Execution JCL

```

//VAPACMSM 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(BVPMTTAL),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=PAC .JOB NAMES PREFIXES (3 CHARACTERS)
===PRM CCPT=<> .JOB ACCOUNTING CODES (JOB CARDS)
===PRM CLASSJ=1 .JOB EXECUTION CLASS (JOB CARDS)
===PRM MSGCL=A .JCL OUTPUT CLASS (MSGCLASS)
===PRM BASE='BASE' .NAME OF DATABASE DEVELOPMENT (4 CHAR)
===PRM OUT=A .JOB SYSOUT CLASS
===PRM INDSV='EXP.BVPPV' .SYSTEM VSAM FILES VA-PAC
===PRM INDUV='UTI.BVPPV' .USER VSAM FILES VA-PAC
===PRM INDMV='MIG.BVPMV' .MIGR VSAM FILES
===PRM INDMN='MIG.BVPMN' .MIGR NON VSAM FILES
===PRM VOLUN= .USER NON VSAM FILES VOL=SER
===PRM VOLMN= .MIGR NON VSAM FILES VOL=SER
===PRM VOLMV= .MIGR VSAM FILES VOLUME
===PRM VCAT=<> .CATALOG OF DSMS USER VSAM FILES
===PRM SCAT=<> .CATALOG OF DSMS SYSTEM VSAM FILES
===PRM LSK='A' .LANGAGE OF SKELETON FILES
===PRM UWK=SYSDA .WORK UNIT
===PRM UNITUN=SYSDA .NON VSAM USER FILES UNIT
===PRM UNITMN=SYSDA .NON VSAM MIGRATION FILES UNIT
===PRM HLQ='HLQ' .HIGH LEVEL QUALIFIER OF LOAD MODULES
===PRM BIBP='SYS1.PROCLIB' .PROCEDURE LIBRARY
===PRM BIBT='SYS1.SORTLIB' .SORT LIBRARY
===PRM BCOB='SYS1.SCEERUN' .COBOL ROUTINE LIBRARY
===BEGMOD
./ ADD NAME=$ZMODUL
/*
//

```

## JCL installation

The BVPMMJCL module reads the skeleton JCL file and produces an appropriate JCL, with commands which enable you to:

- Select portions of the skeleton JCL, which are called 'JCL modules',
- Parameterize the skeleton in order to obtain a JCL which requires a minimum of modifications to be operational,
- Add lines before and/or after the JCL modules to separate each one.

This step can be executed as many times as necessary to generate an appropriate JCL.

### USER INPUT

Command	Parameters	Comments
===PRM	PPPP=pppp (1)	Parameter
===SELM	jcl1 jcl2 .....	Selected JCL modules
===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) PPPP = parameter name, pppp = parameter value

### Notes

- Lines ===PRM

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

The default values are only examples. You must therefore enter values adapted to your site.

- Lines ===SELM

These lines can be used to select modules.

Since the standard installation provides all the modules, this line is not used.

- Lines ===BEGMOD

./ ADD NAME=\$ZMODUL

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



./ ADD NAME=<JCL-module>

### RESULT: the complete JCL

The file obtained in SYSUT2 contains all the installation and operation JCLs. This file must be open with an editor to launch the installation process.

Two operations must be performed on the complete JCL:

#### 1. Overall modifications (if necessary)

Adaptations can be performed on all the JCLs.

The VSAM catalogs appear as comments in the JCL obtained after the installation:

- In the DELETE/DEFINE\*/
- In the JCL STEPCATs
- In the declarations of the procedures' 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, the relevant lines should be changed into command lines. To do so, you must:

- Transform all '/\*:' into '//',
- And then replace '/\*:' and '\*/' with blanks.

#### Caution: SMS

- In the installation jobs which include the 'GenerationDataGroup' allocation, you must delete the lines DD //GDGMOD from the definition IDCAMS.
- If the UNIT and VOL parameters cannot be used on the site, you can delete them in the whole JCL via an exclude command (EXCLUDE command in TSO/EDIT).

It is usually recommended to perform any other overall modifications on the JCLs before splitting these JCLs.

#### Caution: LSR

JCLs are standardly provided with the LSR option for the optimization of the batch access to VSAM files.

If the LSR option is not implemented on the site, you must replace the following lines in the procedures:

```
//xxLSR DD DSN=&INDxx..file,DISP=SHR
//PACxx DD SUBSYS=(&LSR,'DDNAME=xxLSR','BUFND=10','BUFNI=10
```

with a line:

```
//PACxx DD DSN=&INDxx..file,DISP=SHR.
```

## 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 found (see the following table of JCL modules).

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

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

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

## REPORT

BVPM MJCL produces a list for each JCL module created, with the parameters taken into account and according to the variants requested.

**Note:**

Since the parameters of the skeleton JCL are formatted as \$xxxx, if BVPM MJCL encounters, upon execution, a \$ character which 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 '\$' characters present in the flow processed by BVPM MJCL but which are NOT parameters.

## **List of JCLs**

### Table of installation JCLs

Member	Contents	Procedure
D01ALLOM	Allocation of parameters PDSs	
D02CPARM	Loading of parameters	

Member	Contents	Procedure
D05IPROM	Proclib allocation (optional)	
D05PROCM	Loading of batch procedures in Proclib	
D06SKELM	Loading of SC skeleton file	
D07AEM	Loading of error messages	INAM
D99INSM	List of components' dates	INSM

## JCL parameters

### Syntax

===PRM PPPP=pppp .Comments

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

**Note:** When the default value or the '<>' value is indicated, the parameter is required.

### Important advice:

You are strongly advised to install the product in an environment totally distinct from the VA Pac environment.

This package contains programs and files already delivered with VA Pac, and compatibility problems may arise from an installation in a common environment.

Specific parameters have been added in order to take this constraint into account. These are the INDMV, INDMN, VOLMN, VOLMV and UNITMN parameters described in the following table.

### Table of parameters

Parameter	Meaning	Default
	JOB lines:	
PRFJ	Jobname prefix (maximum: 5 characters)	PAC
CCPT	Job accounting code	<>
CLASSJ	Job execution class	1
MSGCL	JCL output class	A

Parameter	Meaning	Default
BASE	Development Database code	BASE
OUT	SYSOUT print class	H
INDSV	VA Pac VSAM system (maximum: 24 characters)	'EXP.BVPPV'
INDUV	VSAM user (maximum: 24 characters)	'UTI.BVPPV'
INDMV	VSAM migration (maximum: 24 characters)	'MIG.BVPMN'
INDMN	Non-VSAM migration (SAM, PDS) (maximum: 24 characters)	'MIG.BVPMN'
VOLUN	VOL=SER for NON-VSAM user files	
VOLMN	VOL=SER for NON-VSAM migration files	
VOLMV	VOL=SER for VSAM migration files (2)	
VCAT	VSAM catalog of the Development Database (User files)	
SCAT	System VSAM catalog (System files)	
LSK	Skeleton language (1)	A
UWK	UNIT of work files used	SYSDA
UNITUN	UNIT of NON-VSAM system files	SYSDA
UNITMN	UNIT of NON-VSAM migration files	SYSDA
HLQ	Common prefix of elements delivered with SMP/E (maximum 30 characters)	'HLQ'
BIBP	DSNAME of the procedure library	'SYS1.PROCLIB'
BIBT	DSNAME of sort library (SORTLIB)	'SYS1.SORTLIB'
BCOB	DSNAME of COBOL routine library	'SYS1.SCEERUN'
	Update of CICS CSD	

(1) A = English, F = French

(2) Required parameter, even under SMS.

## Separators of JCL modules

### Lines before and after JCL modules

```

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

```

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

Lines may be inserted as input to BVPMMJCL if the default option is not appropriate (see the installation default values presented above).

The purpose of these lines is to split the JCL file created by the BVPMMMLCL utility into as many members as JCL modules.

This utility adds ....1 to ....n lines in front of each JCL module and ....1 to ....n lines to the end of each JCL module.

---

## Installation of components

### Allocation and loading of parameters

D01ALLOM module: '\$prfj.D1' job

Allocation of file: \$INDMN..BVPSY

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

### Execution JCL

```
//$PRFJ.D1 JOB ($CCPT),'PAC D01ALLOM',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* * *
//* INSTALLATION - D01ALLOM *
//* INITIAL ALLOCATION OF THE PARAMETER PDS AND ADDITIONAL FILES *
//* .STEP1 : LISTCAT *
//* .STEP2 : ALLOCATION *
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
LISTC ENT($INDMN..BVPSY)
/*
//STEP2 EXEC PGM=IEFBR14,COND=(0,EQ,STEP1)
//SY DD DSN=$INDMN..BVPSY,
// DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLMN,
// UNIT=$UNITMN,
// SPACE=(6080,(50,,5))
//
```

D02CPARM module: '\$prfj.D2D' job

Loading of \$INDMN..BVPSY file

Step	Program	Comment
STEP1	IEBUPDTE	Loading of the PDS members

Caution:

Replace :/ with ./ before submitting the JOB.

### Execution JCL

```
===FRM TYPE=DATA
//$PRFJ.D2D JOB ($CCPT),'PAC D02DPAR',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* * *
//*      INSTALLATION - D02DPAR *
//*   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=$OUT
//SYSUT2 DD DSN=$INDMN..BVPSY,DISP=SHR
//SYSIN DD DATA,DLM='PP'
:/      ADD NAME=DFBVPAE
DELETE ($INDMV..BVPAE) CLUSTER
SET LASTCC = 0
SET MAXCC = 0
DEFINE CLUSTER ( NAME ($INDMV..BVPAE) -
                  SHR (2,3) RUS   KEYS (12,0) -
                  VOL ($VOLMV) -
                  CYL (45) -
                  RECSZ (80 80) ) -
INDEX   ( NAME ($INDMV..BVPAE.I) -
          CISZ (4096) ) -
DATA    ( NAME ($INDMV..BVPAE.D) -
          FSPC (2,1) -
          CISZ (4096) ) /*: CATALOG ($SCAT) */
:/      ADD NAME=DFBVPSC
DELETE ($INDMV..BVPSC) CLUSTER
DEFINE CLUSTER ( NAME ($INDMV..BVPSC) -
                  SHR (2,3) RUS   KEY (4 0) -
                  VOL ($VOLMV) -
                  RECSZ (3204,3204) ) -
INDEX   ( NAME ($INDMV..BVPSC.I) -
          CISZ (4096) ) -
```



- 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.

D05IPROM module: '\$prfj.D5I' job

Allocation of a reserved library (optional)

Step	Program	Comments
STEP1	IEFBR14	Allocation of a procedure library

### Execution JCL

```
//$PRFJ.D5I JOB ($CCPT),'PAC D05IPROC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - D05IPROM *
//* *
//*          WARNING! OPTIONAL JOB *
//*          ===== *
//* *
//* INITIAL ALLOCATION OF A SPECIAL "PROCLIB" FOR THE PRODUCT *
//* .STEP1 : LISTCAT *
//* .STEP2 : ALLOCATION *
//* *
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
LISTC ENT($BIBP)
/*
//STEP2 EXEC PGM=IEFBR14,COND=(0,EQ,STEP1)
//LIB DD DSN=$BIBP,DISP=(,CATLG,DELETE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
// VOL=SER=$VOLMN,
// UNIT=$UNITMN,
// SPACE=(6080,(200,20,10))
```

D05PROCM module: '\$prfj.D5M' job

Loading of procedures

This job includes an 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.

### Execution JCL

```
//$PRFJ.D5M JOB ($CCPT),'PAC D05PROC',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
//*          INSTALLATION - D05PROCM *
//* *
//*    CATALOGING OF BATCH PROCEDURES CONVERGENCE *
//* *
//*    ->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=BVPINAM
:/ ADD NAME=BVPINSM
:/ ADD NAME=BVPMIBA
:/ ADD NAME=BVPMIMA
:/ ADD NAME=BVPUTCG
:/ ADD NAME=BVPUTCR
:/ ADD NAME=BVPUTMA
:/ ADD NAME=BVPUTOV
:/ ADD NAME=BVPUTSE
F+
//
```

## Loading of generation skeletons

D06SKELM module: '\$prfj.D6' job

Creation and loading of skeleton files.

Step	Program	Comments
STEP1	IDCAMS	SC DELETE/DEFINE
STEP2	IDCAMS	SC loading (REPRO)

### Execution JCL

```
//$PRFJ.D6 JOB ($CCPT),'PAC D06SKELM',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* VISUALAGE PACBASE *
//* *
```

```

/*          INSTALLATION - D06SKELM - CONVERGENCE          *
/*  LOADING OF PRODUCT SKELETON FILES FOR GENERATION      *
/*  .STEP1 : DELETE DEFINE SKELETON FILES SC SG          *
/*  .STEP2 : LOADING VSAM SKELETON FILES SC SG          *
/******
/*
//STEP1 EXEC PGM=IDCAMS
/*:STEP1CAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD DSN=$INDMN..BVPSY(DFBVPSC),DISP=SHR
// DD DSN=$INDMN..BVPSY(DFBVPSC),DISP=SHR
/*
//STEP2 EXEC PGM=IDCAMS
/*:STEP2CAT DD DSN=$SCAT,DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//SCO DD DSN=$INDMV..BVPSY,DISP=SHR
//SGO DD DSN=$INDMV..BVPSY,DISP=SHR
//SCI DD DSN=$HLQ..SBVPMF4(BVPSY$LSK),DISP=SHR
//SGI DD DSN=$HLQ..SBVPMF5(BVPSY$LSK),DISP=SHR
//SYSIN DD *
        REPRO INFILE (SCI)   OUTFILE (SCO)
        REPRO INFILE (SGI)   OUTFILE (SGO)
//

```

## Loading of error messages and online help

D07AE0 module: '\$prfj.D7' job

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

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

To take one or more languages into account, you must add as many parameter lines which contain the two-characters language code in position 3.

To take all the available languages into account, you must enter a parameter line with '\*\*' in position 3.

The AE file must be closed in on-line mode.

Step	Program	Comments
INPUT	BVPTU001	Recognition of the language parameter
DELDEF	IDCAMS	DELETE DEFINE of the AE file
PTUCAE	BVPTUCAE	Loading of the AE file supplied

## Execution JCL

```

//$PRFJ.D7 JOB ($CCPT),'PAC D07AEM',CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=($BIBP)
//*****

```

```

/* VISUALAGE PACBASE
/*
/*
/*          INSTALLATION - D07AEM
/******
//INAM    EXEC BVPINAM
**
/*

```

---

## List of components' dates

D99INSM module: '\$prfj.D99' job

This job produces the following lists:

- The list of batch programs with their generation characteristics,
- The list of AE SC and SG files with their creation dates.

In case of system operation problems, these lists should be used in order to communicate all the installation references to the Support.

This job also executes the INSM procedure.

Meaning of the return code on a component:

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

## Execution JCL

```

//$PRFJ.D99 JOB ($CCPT),'PAC D99INSM',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 BVPINSM
/*

```



---

## Chapter 2. Analysis procedures

---

### UTCA - Analysis of the Administration Database

#### UTCA - Overview

##### Overview

This procedure is a utility which extracts the following data from the administration database: the Databases, the build environments, the Profiles with their authorizations, the Users with their authorizations and the dates of their last connections to each Database, the special characters and error messages, the Databases under DSMS control, the security system and the list of Pac/transfer packages.

##### Execution condition

None

##### Output result

This data is output to the PAC7RQ sequential file.

Structure of the PAC7RQ file

Pos.	Len.	Value	Meaning
1	6	BASDEF, PARSPE, PARLIE, KEYTRT, KEYEBT, TRFDEF, SECDEF, SECDSM, PVPDEF, PVPGVP, USEDEF, USEGVP, USECNX	Entity type
7	30		Entity code
		TABLES	if PARSPE or PARLIE
		SECURI	if SECDEF
37	1		PARSPE : Special character

Pos.	Len.	Value	Meaning
38	1		Internal value of the special character
39	2		PARLIE : Language code
41	2		Error code
43	30		Error message
73	6		KEYTRT : OS code
79	6		TP Monitor code
85	6		DBD code
91	6		KEYEBT : OS code
97	6		TP Monitor code
103	6		DBD code
109	6		Object oriented language code
115	6		Middleware code
121	1		SECDEF : Security system
122	1		USEDEF : Administrator indicator
123	1		USEDEF / PVPDEF : General authorization
124	4		PVPGVP / USEGVP / USECNX : Database code
128	3		PVPGVP / USEGVP : Library code
131	1		PVPGVP / USEGVP : Authorization level
132	1		USECNX : Connection type
133	8		Date of last connection

## UTCA - Description of steps

Initialization of the output file(s)

Administration database analysis: BVPLTADM

Code	Physical name	Type	Label
PAC7AR	&INDSV..BVPGR	Input	Administration database data
PAC7AN	&INDSV..BVPGN	Input	Administration database index
PAC7RQ	&OUTFILE	Output	List of administration data

## UTCA - Execution JCL

```

/* -----
/*      VISUALAGE PACBASE
/*
/* -----
/*      ANALYSIS OF THE ADMINISTRATION DATABASE

```

```

/*
/* -----
/*
//BVPUTCA  PROC INDSV='$INDSV',          INDEX OF VSAM SYSTEM FILES
//          INDMN='$INDMN',             INDEX OF NON VSAM FOR MIGRATION
//*:       VSAMCAT='$VCAT',             USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',             SYSTEM VSAM CATALOG
//          STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//          LSR='BLSR',                  LSR BATCH SYSTEM NAME
//          OUT=$OUT,                    OUTPUT CLASS
//          OUTFILE=,                    OUTPUT FILE FOR CARTOGRAPHIE
//          VOLS='SER=$VOLUN',           BACKUP VOLUME
//          UNITS=$UNITUN,               BACKUP UNIT
//          UWK=$UWK,                    WORK UNIT
//          SPAOT='(TRK,(500,80),RLSE)'  OUTPUT FILE SPACE
//*****
//PRLFILE  EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
/*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PACRIN   DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU   DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE  EXEC PGM=IDCAMS
/*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE  EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
/*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PACRIN   DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU   DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE  EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
/*-----
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PLTADM   EXEC PGM=BVPLTADM
/*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*:       DD DSN=&VSAMCAT,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')
//PAC7RQ   DD DSN=&OUTFILE,DISP=(,CATLG),
//          UNIT=&UNITS,VOL=&VOLS,

```

```
//          SPACE=&SPAOT,
//          DCB=(RECFM=FB,BLKSIZE=20000,LRECL=200)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

---

## UTCG - Repository analysis

### UTCG - Overview

#### Principle

This procedure is a utility program that is used to list entities that can be generated in a current session, in all the libraries. These entity are: Programs and Macros, Screens and Dialogs (of all types), eBusiness entities, Database Blocks, Reports, Meta-Entities with the number of their User Entities, Methodologies, Texts, sessions, Input Aids, and Volumes.

#### Execution conditions

None

#### Result

Each generable entity found is loaded into the PAC7RQ sequential file.

Structure of the PAC7RQ file

Pos.	Len.	Value	Meaning
1	3		Library code
4	3	PGM, MAC, DIA, ECR, EBU, DBD BIB, MET, MEC, ETA, SES, TXT, FOG, RAP	Entity type
7	3		Type of Macro or type of eBusiness entity or type of Screen
		PGM, DIA, EBU, MIX	Macro
		CE, CS, DO, MC, SI	eBusiness entities
		CIF, OBJ, REL	Meta-entities
10	30		Entity code



Pos.	Len.	Value	Meaning
40	2		Variant or type of Block
42	1		Usage in the -CE desc. of a Screen
		'1'	Screen used in the -CE of another Screen
43	1		Comments insertion option on a Library definition
44	2		Generation variant for an eBusiness entity
46	1		Presence indicator of EXEC PAF order
47	1		Report type
48	8		Counter for the number of UE by Meta-Entities
56	1		Indicator for SSADM methodology
57	1		Indicator for YSM methodology
58	1		Indicator for IFWA methodology
59	1		Indicator for MERISE methodology
60	1		Indicator for OMT methodology
61	1	' ', N, A, D,	Session status
62	1	' ', P,	Production session
63	2		Type of text
65	1		Type of programming
66	1		Nature of the program
67	1	C, G, O,	Type of Input Aid
68	1	' ', 1, 2	Indicator for Report call in the Volume
69	1		Volume type

## UTCG - Description of steps

Initialization of the output file(s)

Repository analysis : BVPLTCGE

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development database data
PAC7AN	&INDUV..&BASE.AN	Input	Development database index
PAC7RQ	&OUTFILE	Output	List of generable entities

## UTCG - Execution JCL

```

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

```

```

/* -----
/*                               REPOSITORY ANALYSIS
/* -----
/*
//BVPUTCG  PROC BASE=$BASE,                CODE OF DEVPT DATABASE
//          INDUV='$INDUV',                INDEX OF USER VSAM FILES
//          INDMN='$INDMN',                INDEX OF NON VSAM FOR MIGRATION
//*:       VSAMCAT='$VCAT',                USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',                SYSTEM VSAM CATALOG
//          STEPLIB='$HLQ..SBVPMBR8',      LIBRARY OF LOAD-MODULES
//          LSR='BLSR',                    LSR BATCH SYSTEM NAME
//          OUT=$OUT,                      OUTPUT CLASS
//          OUTFILE=,                      OUTPUT FILE FOR CARTOGRAPHIE
//          VOLS='SER=$VOLUN',             BACKUP VOLUME
//          UNITS=$UNITUN,                 BACKUP UNIT
//          UWK=$UWK,                      WORK UNIT
//          SPAOT='(TRK,(500,80),RLSE)'     OUTPUT FILE SPACE
//*****
//PRLFILE  EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE  EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE  EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE  EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PLTCGE  EXEC PGM=BVPLTCGE
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*:       DD DSN=&VSAMCAT,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')
//PAC7RQ DD DSN=&OUTFILE,DISP=(,CATLG),
//      UNIT=&UNITS,VOL=&VOLS,
//      SPACE=&SPAOT,
//      DCB=(RECFM=FB,BLKSIZE=15000,LRECL=150)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

---

## UTSE - Analysis of Data Structures/Segments

### UTSE - Overview

#### Principle

This procedure is a utility program that is used to analyze the Data Structures and Segments available in all the Libraries of the database.

#### Analysis of Data Structures:

Search for their type

Search for their usages:

- Calls in -CD descriptions
  - Organization, access mode, recording mode, opening, usage, break level, synchronization level, description type, cobol level, selection of Segments of type \*01=02
- Calls in the working storage section
  - Mode of description, organization
- Calls in the Structured language of EBusiness entities

#### Analysis of Segments:

Search for their usages:

- Particular usages such as 'redefines' and Segment calls,
- in Screens (-CS),
- in eBusiness entities,
- in Database Blocks.

Search for -GG (SQL Complement).

Search for the presence of sub-schema/sub-system.

#### Execution conditions

None

### Result

Each Data structure and each Segment is loaded into the PAC7RQ sequential file.

Structure of the PAC7RQ file

Pos.	Len.	Value	Meaning
1	3		Library code
4	3	SDO or SEG	Entity type
7	4		DS or Segment code
11	25		DS characteristics
11	1		Data Structure type
		G, T, M, N	Pactables
		V	Logical view
		Z	Default type
12	1		Organization
13	1		Access mode
14	1		Recording mode
15	1		Opening
16	1		Number of break levels
17	1		Number of synchronization levels
18	1		File usage
19	1		Type of generated description
20	1		Level
21	6		Code of the calling program
27	9		Usage in a working storage section
27	1		Type of generated description
28	1		Level
29	1		Organization
30	6		Code of the calling program
36	1		Segment selection in the argument
		'1'	Selection as *01=02
		blank	other

Pos.	Len.	Value	Meaning
37	7		Segment characteristics
37	1		Used in a redefines
		'1'	Presence of a redefines
		blank	No redefines
38	1		Segment call
		'1'	Segment called
		blank	Segment not called
39	1		Presence of -GG (SQL complement)
		'1'	Presence
		blank	absence
40	1		Used in a hierarchical Database Block
		'1'	Used
		blank	Not used
41	1		Used in a Codasyl Database Block
		'1'	Used
		blank	Not used
42	1		Used in a relational Database Block (DB2)
		'1'	Used
		blank	Not used
43	1		Presence of sub-schema/ sub-system
		'1'	Presence
		blank	Absence
			Call of the Segment in a Screen (-CS)
44	6		Screen code
50	1		Limitation of generation
51	1		Use of the file in reception
52	1		Use of the file on display
53	1		Category
54	4		Code of previous Segment
58	14		Access key input field
72	6		Data Elem. code for Segment access
78	1		Organization
79	1		Description type

Pos.	Len.	Value	Meaning
80	8		External name of the file
88	4		Code of Segment in the database
92	1		Break on display
93	2		Level of generated processes
95	1		Number of sub-schema
96 96			Call of the DS or of the Segment in an EBusiness entity
96	2		Call type of the UE
98	6		Internal code of the UE
104	2		Type of description of the UE
106	6		Internal identifier
112	1		Call of a Model entity in the description
		'1'	Call
		blank	No call

## UTSE - Description of steps

Initialization of the output file(s)

Analysis of Data Structures, Segments: BVPLTSSE

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Data of the development database
PAC7AN	&INDUV..&BASE.AN	Input	Index of the development database
PAC7RQ	&OUTFILE	Output	List of Data Structures and Segments

## UTSE - Execution JCL

```

/* -----
/*      VISUALAGE PACBASE
/*
/* -----
/*      ANALYSIS OF DS AND SEGMENTS
/*
/* -----
/*
//BVPUTSE  PROC BASE=$BASE,           CODE OF DEVPT DATABASE
//          INDUV='$INDUV',           INDEX OF USER VSAM FILES
//          INDMN='$INDMN',           INDEX OF NON VSAM FOR MIGRATION
//*:       VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:       SYSTCAT='$$CAT',           SYSTEM VSAM CATALOG

```

```

//          STEPLIB='$HLQ..SBVPMBR8',          LIBRARY OF LOAD-MODULES
//          LSR='BLSR',                        LSR BATCH SYSTEM NAME
//          OUT=$OUT,                          OUTPUT CLASS
//          OUTFILE=,                          OUTPUT FILE FOR CARTOGRAPHIE
//          VOLS='SER=$VOLUN',                  BACKUP VOLUME
//          UNITS=$UNITUN,                      BACKUP UNIT
//          UWK=$UWK,                           WORK UNIT
//          SPAOT='(TRK,(500,80),RLSE)'        OUTPUT FILE SPACE
//*****
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PLTSSE EXEC PGM=BVPLTSSE
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*:          DD DSN=&VSAMCAT,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')
//PAC7RQ DD DSN=&OUTFILE,DISP=(,CATLG),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAOT,
//          DCB=(RECFM=FB,BLKSIZE=15000,LRECL=150)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

---

## UTMA - Analysis of Macro-structures

### UTMA - Overview

#### Principle

This procedure is a utility program that is used to analyze Macro-structures so as to identify those that are likely to bring about problems.

A macro-structure is a P-type entity (Program) that is used in Programs or Screens (-XP, -XO).

#### Execution conditions

None

#### Result

An output file PAC7RQ.

Structure of the PAC7RQ file:

Pos.	Len.	Value	Meaning
1	3		Library code
4	3	'MAC'	
7	3	'PGM' or 'ECR' or 'DEB'	-XP or -XO or -B
10	6		Macro code
16	2		Function code
18	2		Sub-function code
20	3		Line number
23	3		Operator with a parameter
26	3		Value of the operator in the PGM and ECR (SCR) calls (col.3) with an occurs clause set to 10
56	3		Operator (GT OR GB) or condition type (AN or OR) whose level or starting condition are not included in the Macro
59	32		= ORPHAN CONDITION if (AN or OR), otherwise GT or GB level
91	1		Entity type for macros whose type is different from 'N' or 'M'
92	1		= 'N' when the function or sub-functions contain several title lines



Pos.	Len.	Value	Meaning
93	2		'*A' , '*R' , '*P' when these types are wrongly specified in some functions

Cases to be detected:

- In some macros, a parameter can be indicated such as the function level, but in such cases, the -P lines are not detected.
- '\$' parameter for operators with the allowed values for this \$ parameter
- '\$' parameter declared in the section and/or paragraph of a -B description,
- -P lines with an orphan OR or AN.
- Macros whose entity type is different from 'N' or 'M',
- Functions or sub-functions which include several title lines ('N'),
- Detection of possible problematic operators: OPE, R, Dxx, DBL, SCn, SRO, SWH, SQL, MV + D.B.M.S operators.
- Detection of '\*A' , '\*R' , '\*P' sub-function types in functions where they are not authorized.

## UTMA - Description of steps

Initialization of the output file(s)

Analysis of Macro-structures: BVPLTMAC

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Data of the development database
PAC7AN	&INDUV..&BASE.AN	Input	Index of the development database
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	
PAC7RQ	&OUTFILE	Output	List of generable entities

## UTMA - Execution JCL

```

/* -----
/*      VISUALAGE PACBASE
/*
/* -----
/*      ANALYSIS OF MACRO-STRUCTURES
/*
/* -----
/*
//BVPUTMA  PROC BASE=$BASE,          CODE OF DEVPT DATABASE
//          INDUV='$INDUV',          INDEX OF USER VSAM FILES

```

```

//          INDMN='$INDMN',          INDEX OF NON VSAM FOR MIGRATION
//*:        VSAMCAT='$VCAT',          USER VSAM CATALOG
//*:        SYSTCAT='$SCAT',          SYSTEM VSAM CATALOG
//          STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//          SORTLIB='$BIBT',          SORT LIBRARY
//          LSR='BLSR',          LSR BATCH SYSTEM NAME
//          OUT=$OUT,          OUTPUT CLASS
//          OUTFILE=,          OUTPUT FILE FOR CARTOGRAPHIE
//          VOLS='SER=$VOLUN',          BACKUP VOLUME
//          UNITS=$UNITUN,          BACKUP UNIT
//          UWK=$UWK,          WORK FILES UNIT
//          SPAOT='(TRK,(500,80),RLSE)'    OUTPUT FILE SPACE
//*****
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&DLFILE,DISP=(OLD,DELETE)
//PLTMAC EXEC PGM=BVPLTMAC
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*:        DD DSN=&VSAMCAT,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')
//PAC7RQ DD DSN=&OUTFILE,DISP=(,CATLG),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAOT,
//          DCB=(RECFM=FB,BLKSIZE=15000,LRECL=150)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR

```

```
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

---

## UTCR - Analysis of Data Elements

### UTCR - Overview

#### Principle

This procedure is a utility program that lists the Data Elements which are defined or undefined in all the Libraries of the Repository. This utility makes an inventory of all the information on these Data Elements (lists of values, child Data Element) as well as all usage formats.

#### Execution condition

None

#### Result

Each Data Element found is loaded into the PAC7RQ sequential file.

Structure of the PAC7RQ file

Pos.	Len.	Value	Meaning
1	3		Library code
4	3	'RUB'	Entity type
7	6		Data Element code
13	1		Presence indicator in the Repository
		'D'	Defined
		'N'	Undefined
14	1		Data element type
15	1		Data element internal usage
16	10		Internal format
26	10		Input format
36	14		Output format
50	1		Presence indicator of a list of values, applies to lines with a D, P, O, I or SPACE type
		'1'	Presence

Pos.	Len.	Value	Meaning
		blank	Absence
51	1		Presence indicator of additional format, applies to lines with a F or E type
		'1'	Presence
		blank	Absence
52	1		Presence indicator of specific labels, applies to lines with a L, C or R type
		'1'	Presence
		blank	Absence
53	1		Presence indicator of specific data (of Alias and/or Reverse type), applies to lines with a S, A or 8 type
		'1'	Presence
		blank	Absence
54	1		Presence indicator of eBusiness data, applies to lines with a Y or G type
		'1'	Presence
		blank	Absence
55	1		Usage indicator for undefined Data elements
		'R'	in a Report
		'S'	in a Segment
		'B'	in a Block
		'P'	in the working storage section of a Program
		'O'	in a the working of a Screen
56	6		Code of the Data element that uses the current Data element
62	48		Content of the working declaration
110	6		Code of the parent Data element

## UTCR - Description of steps

Initialization of the output file(s)

Analysis of Data elements: BVPLTRUB

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Database developement data
PAC7AN	&INDUV..&BASE.AN	Input	Database development index

Code	Physical name	Type	Label
PAC7RQ	&OUTFILE	Output	List of Data elements

## UTCR - Execution JCL

```

/* -----
/*      VISUALAGE PACBASE
/*
/* -----
/*      ANALYSIS OF DATA STRUCTURES
/*
/* -----
/*
//BVPUTCR PROC BASE=$BASE,          CODE OF DEVPT DATABASE
//      INDUV='$INDUV',              INDEX OF USER VSAM FILES
//      INDMN='$INDMN',              INDEX OF NON VSAM FOR MIGRATION
//      INDMN='$INDMN',              INDEX OF NON VSAM FOR MIGRATION
/**:    VSAMCAT='$VCAT',              USER VSAM CATALOG
/**:    SYSTCAT='$SCAT',              SYSTEM VSAM CATALOG
//      STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//      LSR='BLSR',                  LSR BATCH SYSTEM NAME
//      OUT=$OUT,                    OUTPUT CLASS
//      OUTFILE=,                    OUTPUT FILE FOR CARTOGRAPHIE
//      VOLS='SER=$VOLUN',            BACKUP VOLUME
//      UNITS=$UNITUN,                BACKUP UNIT
//      UWK=$UWK,                     WORK UNIT
//      SPAOT='(TRK,(500,80),RLSE)'   OUTPUT FILE SPACE
//*****
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
/*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//      DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//      UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
/*-----
/**:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
/*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//      DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//      UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
/*-----
/**:STEPCAT DD DSN=&VSAMCAT,DISP=SHR

```

```

//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PLTRUB EXEC PGM=BVPLTRUB
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,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')
//PAC7RQ DD DSN=&OUTFILE,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=15000,LRECL=150)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

---

## UTOV - Analysis of Overrides

### UTOV - Overview

#### Principle

This procedure is a utility program that is used to detect overrides of entity definitions and of their complete folders within the same library network. That is to say, on the one hand you may find multiple occurrences of the definition and of its folder, or on the other hand, one or more parts of its folder in a library different from that of the definition. The overrides analysis is possible only in the current view of the database.

#### Execution condition

None

#### Result

Each time an override is detected, the current entity and library are loaded in the PAC7OV sequential file. When the analysis of an entity family is complete, the total number of entities is sent to the PAC7OV file.

Structure of the PAC7OV file

Pos.	Len.	Value	Meaning
1	3	rub, seg, sdo, pgm, fog	Type of entity
4	30		Entity code

Pos.	Len.	Value	Meaning
34	24		Folder record identifier (part of the B3B9 index), blank for definitions
58	2		Data card code
60	3		Reference library
63	3		Override libraries
66	1		Type of override
		'0'	For the definition
		'1'	For the folder itself
67	8		Total number of entities by type; when the counter is running, the type is filled-in, the other fields are blank

Each time a pure override is detected (a Definition in relation to itself, or an element of the folder in relation to itself), a record, which represents the PR data, is loaded into the PAC7PU file of the entities to be purged.

#### Printed output

The total number of detected overrides is printed.

### **UTOV - Description of steps**

Initialization of the output file(s)

Detection of overrides: BVPTUOVR

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error labels
PAC7AR	&INDUV..&BASE.AR	Input	Development database data
PAC7AN	&INDUV..&BASE.AN	Input	Development database index
PAC7ET		Report	Report
PAC7OV	&OUTFILE	Output	List of detected overrides
PAC7PU	&OUTFIL2	Output	Entities to be purged

### **UTOV - Execution JCL**

```

/* -----
/*          VISUALAGE PACBASE
/*
/* -----
/*          ANALYSIS OF OVERRIDES
/*
/* -----

```

```

/**
//BVPUTOV  PROC BASE=$BASE,                CODE OF DEVPT DATABASE
//          INDUV='$INDUV',                INDEX OF USER VSAM FILES
//          INDMV='$INDMV',                INDEX OF VSAM AE SC FOR MIG
//          INDMN='$INDMN',                INDEX OF NON VSAM FOR MIGRATION
//*:       VSAMCAT='$VCAT',                USER VSAM CATALOG
//*:       SYSTCAT='$$CAT',                SYSTEM VSAM CATALOG
//          STEPLIB='$HLQ..SBVPMBR8',      LIBRARY OF LOAD-MODULES
//          LSR='BLSR',                    LSR BATCH SYSTEM NAME
//          OUT=$OUT,                      OUTPUT CLASS
//          OUTFILE=,                      OUTPUT FILE FOR CARTOGRAPHIE
//          OUTFIL2=,                      OUTPUT FILE FOR OVERRIDE
//          VOLS='$SER=$VOLUN',            BACKUP VOLUME
//          UNITS=$UNITUN,                BACKUP UNIT
//          UWK=$UWK,                     WORK UNIT
//          SPAOT='(TRK,(500,80),RLSE)'    OUTPUT FILE SPACE
//*****
//PRLFILE  EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PACRIN   DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU   DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE  EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE  EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PACRIN   DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU   DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE  EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PRLFIL2  EXEC PGM=BVPRMSYS,PARM='&OUTFIL2'
//*-----
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PACRIN   DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU   DD DSN=&&LIFIL2,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFIL2  EXEC PGM=IDCAMS

```



```

/*-----
/*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFIL2,DISP=(OLD,DELETE)
//PRDFIL2 EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFIL2),PARM='&OUTFIL2'
/*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFIL2,DISP=(,PASS),SPACE=(TRK,1),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFIL2 EXEC PGM=IDCAMS,COND=(4,EQ,LISFIL2)
/*-----
/*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFIL2,DISP=(OLD,DELETE)
//PTUOVR EXEC PGM=BVPTUOVR
/*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
/*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
/*: DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVP AE,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')
//PAC7ET DD SYSOUT=&OUT
//PAC7OV DD DSN=&OUTFILE,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=740,LRECL=74)
//PAC7PU DD DSN=&OUTFIL2,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=1440,LRECL=144)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```



---

## Chapter 3. Retrieval Procedures

---

### MIBA - Batch Migration

#### MIBA - Overview

##### Principle

This procedure is a utility which prepares the batch migration after the extraction of entities or library contents in the Repository. It formats a file which will be used by the migration tools.

#### MIBA - User input

The user input of the MIBA procedure is identical to that of the PACX procedure, with the following specific values:

One '\*' line as follows:

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	User password
19	3	bbb	Extraction Library code
22	4	nnnn	Session number (Blank=current session)
26	1	'T'	Session status if Test session
29	4	EXTR	Extractor code
34	1	'1'	Formatting for UPDP (PAF)
55	1	'1'	Timestamp request indicator

You must add the following command line:

Pos.	Len.	Value	Meaning
2	4	'W'	Line code
3	1	'1'	Line number
4	2	'EX'	
6	1	'C'	Library selection code:
			Extraction Library and its upper-level libraries

Pos.	Len.	Value	Meaning
7	33	Choice	Entity to be extracted, coded in the same way as the 'Choice' field in TP.
40	4		Extraction type:
		'ALL '	Entity and used entities

For specific selections, refer to the documentation of the PACX procedure in the 'Administrator's Procedures' Manual.

The PACX extraction has been enhanced:

When a Segment is extracted, its Data structure is also extracted.

When a Screen is extracted, the Definition of its Dialog is also extracted.

When the Definition of an entity is extracted, the Library of each element of its folder is searched for. The lowest-level Library is kept and loaded into the PAC7RQ file.

With this information, the complete folder of an entity is created in its lowest-level Library.

This procedure requires the PAC7PM file as input to the BVPACS96 program.

This file, defined with 50-character records, contains, in position 1, the VA Pac codes of the Programs used as Macro-Structures but not defined as such in the Repository.

This file will be completed subsequently to the exploitation of results of the UTCG Repository Analysis procedure.

This procedure also allows to replace unknown special characters in an entity code with another character. The correspondence table is represented by the PAC7CS file used as input to the BVPACS94 and BVPACS96 programs (optional file, supplied by the client).

This file contains a 20-character-long record, constituted of 10 items, each of which is 2 characters long: the first represents the character to be replaced, the second is the replacing character.

## **MIBA - Description of steps**

Input recognition: PTU001

Initialization of the output file(s)

## Initialization of the KSDS work file: IDCAMS

### Extraction: PACX

This step extracts transactions according to user input.

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVP AE	Input	Error messages
PAC7AN	&INDUV..&BASE.AN	Input	Development Database Index file
PAC7AR	&INDUV..&BASE.AR	Input	Development Database Data file
PAC7AY	&INDUV..&BASE.AY	Input	Development Database Extension Data
PACGGN	&INDSV..BVPGN	Input	Administration Database Index file
PACGGR	&INDSV..BVPGR	Input	Administration Database Data file
PACGGU	&INDSV..BVPGU	Input	Administration Database Users
PAC7PJ	DUMMY	Input	Archived transactions
PAC7MB	&&PACXMB	Input	User input
PAC7MA	DUMMY	Input	Work file
PAC7ES	DUMMY	Input	Work file
PAC7BM	&&PACXBM	Input/Output	User input
PAC7MM	&&PACXMM	Input/Output	Work file
PAC7MJ	&&PACXMJ	Input/Output	Work file
PAC7TE	&&PACXTE	Input/Output	Work file
PAC7RE	&&PACXRE	Input/Output	Work file
PAC7RM	&&PACXRM	Input/Output	Work file
PAC7WD	&&PACXWD	Input/Output	Extracted transactions
SYSEXT	&INDUV..SYSEXT.&USER	Input/Output	Work file
PAC7MV	&&MV	Output	Work file
PAC7MR	&&MR	Output	Work file
PAC7MX	&&MX	Output	Non extracted entities (PACX)
PAC7GY	&&GY	Output	Extracted transactions for UPDP

Code	Physical name	Type	Label
PAC7RQ	&&PAC7RQ	Output	Matching Entity/Library
PAC7TD	&&TD	Output	Work file
PAC7UE	&&UE	Output	Work file
PAC7IA		Report	General printout of the program stream
PAC7DD		Report	Errors on input transactions
PAC7ED		Report	Extractions report
PAC7EE		Report	Extractions report
PAC7EG		Report	Extractions report
PAC7EM		Report	Extractions report
PAC7EP		Report	Extractions report
PAC7EQ		Report	Extractions report
PAC7EU		Report	Extractions report
PAC7EZ		Report	Extractions report
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

Return codes:

- 0: No error
- 4: Error in user input (detailed in PAC7EE) or in extractions (detailed in PAC7EZ)
- 8: Error in '\*' line (detailed in PAC7DD)

Deletion of the KSDS work file: IDCAMS

Batch migration: BVPACS94

--	--	--	--

Code	Physical name	Type	Label
PAC7GY	&&GY	Input	File resulting from PACX extraction
PAC7PM	&INPUTMIB	Input	File with the list of Pgms to be transformed into PMS

Code	Physical name	Type	Label
PAC7CS	&INPUTSPE	Input	Special characters correspondence file
PAC7TA	&&PAC7TA	Output	

#### Reorganisation of transactions : BVPACS97

Code	Physical name	Type	Label
PAC7TA	&&PAC7TA	Input	File containing transactions grouped by type
PAC7AT	&OUTFILE	Output	

#### Global sort: BVPACS98

Code	Physical name	Type	Label
PAC7RQ	&&PAC7QR	Input	Matching Entity/Library
PAC7AT	&&PAC7AT	Input	
PAC7TG	&OUTFILE	Output	
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

### **MIBA - Execution JCL**

```

/** -----
/**      VISUALAGE PACBASE
/**
/** -----
/**      BATCH MIGRATION
/**
/** -----
/**
//BVPMIBA  PROC BASE=$BASE,          CODE OF DEVPT DATABASE
//          INDSV='$INDSV',          INDEX OF SYSTEM VSAM FILES
//          INDUV='$INDUV',          INDEX OF USER VSAM FILES
//          INDMN='$INDMN',          INDEX OF NON VSAM FOR MIGRATION
//*:       VSAMCAT='$VCAT',          USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',          SYSTEM VSAM CATALOG
//          STEPLIB='$HLQ..SBVPMBR8', LIBRARY OF LOAD-MODULES
//          STEPLIP=STEPLIP,        LIBRARY OF LOAD-MODULES VAPACBASE
//          SORTLIB='$BIBT',          SORT LIBRARY
//          USER=,                   USER CODE
//          LSR='BLSR',              LSR BATCH SYSTEM NAME
//          OUT=$OUT,                UTILITIES AND ERRORS OUTPUT CLASS
//          OUTL=$OUT,               OUTPUT CLASS OF REPORTS

```

```

//          UWK=$UWK,                                WORK UNIT
//          SPAMB='(TRK,(5,1),RLSE)',                  REQUEST FILE SPACE
//          SPAMV='(TRK,(50,10),RLSE)',                UPDT FILE SPACE
//          SPAGY='(TRK,(50,10),RLSE)',                UPDP FILE SPACE
//          SPATD='(TRK,(50,10),RLSE)',                CPSN FILE SPACE
//          INPUTMIB=,                                PROGRAM/MACRO FILE
//          INPUTSPE=,                                SPECIAL CHAR FILE
//          OUTFILE=,                                OUTPUT FILE MIGRATION
//          VOLS='SER=$VOLUN',                        BACKUP VOLUME
//          UNITS=$UNITUN,                            BACKUP UNIT
//          SPAOT='(TRK,(500,80),RLSE)'                OUTPUT FILE SPACE
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&MIBAMB,DISP=(,PASS),
//          UNIT=&UWK,SPACE=&SPAMB,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER,&INDUV'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..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
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DFSYSXEXT,DISP=(OLD,DELETE)
//MAXKEY EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSPAF DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//MAXKEY DD DSN=&INDMN..BVPSY(MAXKEY),DISP=SHR
//SYSIN DD DSN=&INDMN..BVPSY(REPRO999),DISP=SHR
//*
//PACX EXEC PGM=BVPACX,REGION=0K
//*-----
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&STEPLIP,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//PAC7AE DD DSN=&INDSV..BVP AE,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..BVP GN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVP GR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVP GU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7PJ DD DUMMY
//PAC7IA DD SYSOUT=&OUTL
//PAC7DD DD SYSOUT=&OUTL
//PAC7ED DD SYSOUT=&OUTL
//PAC7EE DD SYSOUT=&OUTL
//PAC7EG DD SYSOUT=&OUTL
//PAC7EM DD SYSOUT=&OUTL
//PAC7EP DD SYSOUT=&OUTL
//PAC7EQ DD SYSOUT=&OUTL
//PAC7EU DD SYSOUT=&OUTL
//PAC7EZ DD SYSOUT=&OUTL
//PAC7MA DD DUMMY
//PAC7ES DD DUMMY
//SYLSR DD DSN=&INDUV..SYSEXT.&USER,DISP=SHR
//SYSEXT DD SUBSYS=(&LSR,'DDNAME=SYLSR')
//PAC7MB DD DSN=&&MIBAMB,DISP=(OLD,DELETE,DELETE)
//PAC7BM DD DSN=&&PACXBM,DISP=(,DELETE),UNIT=&UWK,

```

```

//          DCB=BLKSIZE=3440,SPACE=&SPAMB
//PAC7MM DD DSN=&&PACXMM,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=113,BLKSIZE=11300)
//PAC7MJ DD DSN=&&PACXMJ,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=158,BLKSIZE=6320)
//PAC7TE DD DSN=&&PACXTE,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPATD,
//          DCB=(RECFM=FB,LRECL=323,BLKSIZE=6460)
//PAC7RE DD DSN=&&PACXRE,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPATD,
//          DCB=(RECFM=FB,LRECL=36,BLKSIZE=6012)
//PAC7RM DD DSN=&&PACXRM,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPATD,
//          DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//PAC7RQ DD DSN=&&PAC7RQ,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7WD DD DSN=&&PACXWD,DISP=(,DELETE),UNIT=&UWK,
//          SPACE=&SPATD,
//          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)
//PAC7MV DD DSN=&&MV,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7MR DD DSN=&&MR,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7MX DD DSN=&&MX,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAMB,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PAC7TD DD DSN=&&TD,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPATD,
//          DCB=(RECFM=FB,LRECL=286,BLKSIZE=6292)
//PAC7GY DD DSN=&&GY,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAGY,
//          DCB=(RECFM=FB,LRECL=310,BLKSIZE=6200)
//PAC7UE DD DSN=&&UE,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAMV,
//          DCB=(RECFM=FB,LRECL=230,BLKSIZE=6440)
//SYSUDUMP DD SYSOUT=&OUT
//*
//PRMSYS EXEC PGM=BVPRMSYS,PARM='&USER,&INDUV',COND=EVEN
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLSYEXT),DISP=SHR
//PACROU DD DSN=&&DLSYEXT,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)
//PACS94 EXEC PGM=BVPACS94
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//PAC7CS DD DSN=&INPUTSPE,DISP=SHR
//PAC7RQ DD DSN=&&PAC7RQ,DISP=(OLD,PASS)
//PAC7QR DD DSN=&&PAC7QR,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAMV,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACS96 EXEC PGM=BVPACS96
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//PAC7GY DD DSN=&&GY,DISP=(OLD,PASS)
//PAC7CS DD DSN=&INPUTSPE,DISP=SHR
//PAC7PM DD DSN=&INPUTMIB,DISP=SHR
//PAC7TA DD DSN=&&PAC7TA,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=27600,LRECL=400)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACS97 EXEC PGM=BVPACS97
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//PAC7TA DD DSN=&&PAC7TA,DISP=(OLD,PASS)
//PAC7AT DD DSN=&&PAC7AT,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=27600,LRECL=400)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACS98 EXEC PGM=BVPACS98
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//PAC7RQ DD DSN=&&PAC7RQ,DISP=(OLD,PASS)
//PAC7AT DD DSN=&&PAC7AT,DISP=(OLD,PASS)
//PAC7TG DD DSN=&OUTFILE,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,

```

```
//          SPACE=&SPAOT,
//          DCB=(RECFM=FB,BLKSIZE=27600,LRECL=400)
//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)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

---

## MIMA - Macro Migration

### MIMA - Overview

This procedure enables you to simulataneously generate and tag one or more MacroStructures at once.

You must indicate a '\*' line (user code, password, library...) as input, as well as one or more command lines for each MacroStructure to be generated.

On this command, coded 'GCM', you can enter the following parameters:

- VARIAN=x, represents the 'type of code' of the Macro Definition. If this parameter is not specified, the Macro will be generated with the 'type of code' indicated on its Definition (Since this value is 'N' on most Macros, it is advised to always specify this parameter).
- OPTNUM=x, represents the 'COBOL numbering and alignment' option on the Macro Definition. By default, the Macro will be generated with the value specified on the Macro Definition. Warning: The value ' ' is significant (numbering requested).
- INSCOM=x, represents the 'Comments insertion option' on the Library Definition. By default, the Macro will be generated with the value specified on the Library Definition.
- LANGEN=x, represents the generated language of Programs on the Library Definition. By default, the Macro will be generated with the value specified on the Library Definition.
- FORCOB=x, represents the 'Cobol formatting option' with x=Y (Cobol formatting) or x=N (no Cobol formatting, default value).

Warning: All the Macro generation requests for a given '\*' line must contain the same value for these last two parameters.

### MIMA - User input

A '\*' line with the user code, password and Library code is required.

Pos.	Lon.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code

Pos.	Lon.	Value	Meaning
11	8	pppppppp	Password
19	3	bbb	Library code

Then you must enter a line for the GCM command, and enter parameters (optional).

Pos.	Lon.	Value	Meaning
2	1	'Z'	Line code
3	2	'90'	Printing order criterion (1)
5	4	'GCM '	Command code (1)
9	6	cccccc	MacroStructure code (1)
15	1	'C'	Selection indicator (1)
16	1	'1'	Option to be printed (1)
28	1		Presence of a continuation line
		' '	No continuation line
		'*'	Continuation line
31	50		Command parameters
		VARIAN=x	To assign value 'x' to the 'type of cobol to generate'
		OPTNUM=x	To assign value 'x' to the 'Cobol numbering option'
		INSCOM=x	To assign value 'x' to the 'Comments insertion option'
		LANGEN=x	To assign value 'x' to the Library generated language
		FORCOB=x	To assign value 'x' to the Cobol formatting option

(1) Parameters to be entered on the first line only, not on the continuation lines.

This procedure also allows the transformation of unrecognized special characters in Macro-Structure codes into other characters. The correspondence table is represented by the PAC7CS file used as input to the BVPACP87 program (optional file, supplied by the client).

This file contains a 20-character-long record, constituted of 10 items. Each item is 2 characters long: the first character is the character to be replaced, the second character is the replacing character.

## **MIMA - Description of steps**

Input recognition: PTU001

Initialization of the output file(s)

### Generation/Print commands : BVPACA10

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AY	&INDUV..&BASE.AY	Input	Development Database extension
PAC7AJ	&INDUV..&BASE.AJ	Input	Development Database journal
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index
PACGGR	&INDSV..BVP GR	Input	Administration Database data
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7ME	&&MIMAMB	Input	User transactions
PAC7MV	&&PAC7MV	Output	Update transactions
PAC7MG	&&PAC7MG	Output	Generation/Print commands

### GCM specific preparation : BVPACA30

Code	Physical name	Type	Label
PAC7MG	&&PAC7MG	Input	Generation/Print commands
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AE	&INDMV..BVP AE	Input	Error messages
PAC7JG	&&PAC7JG	Output	Extractor command
PAC7KU	&&PAC7KU	Output	Report
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

### Extractor for the generation of Programs: BVPACP30

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVP GN	Input	Administration Database data
PACGGN	&INDSV..BVP GR	Input	Administration Database index
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data

Code	Physical name	Type	Label
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AY	&INDUV..&BASE.AY	Input	Development Database extension data
PAC7JG	&&PAC7JG	Input	User transactions
PAC7W1	&&PAC7W1	Output	Work file
PAC7W2	&&PAC7W2	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### Preparation for batch generation : BVPACP40

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7W1	&&PAC7W1	Input	Work file
PAC7W2	&&PAC7W2	Input	Work file
PAC7W3	&&PAC7W3	Output	Work file
PAC7W4	&&PAC7W4	Output	Work file
PAC7KP	&&PAC7KP	Output	Work file
PAC7GI	DUMMY	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### COBOL generator : BVPACP80

Code	Physical name	Type	Label
PAC7SC	&INDMV..BVPSC	Input	Generation skeleton
PAC7W3	&&PAC7W3	Input	Work file
PAC7W1	&&PAC7W5	Output	Work file

#### Formatting of the generated flow : BVPACP82

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVP GN	Input	Administration Database data
PACGGN	&INDSV..BVP GR	Input	Administraion Database index
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7W1	&&PAC7W5	Input	Work file
PAC7W4	&&PAC7W4	Input	Work file
PAC7GP	&&PAC7GP	Output	Work file
PAC7EP	&&PAC7EP	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### Sort before tag insertion : BVPACP84

Code	Physical name	Type	Label
PAC7W1	&&PAC7W5	Input	Work file
PAC7W2	&&PAC7W6	Output	Work file

#### Sort and preparation before Macro tagging: BVPACP86

Code	Physical name	Type	Label
PAC7W1	&&PAC7W1	Input	Work file
PAC7RQ	&&PAC7RQ	Output	Work file

#### Generation of the tagged Macro : BVPACP87

Code	Physical name	Type	Label
PAC7CS	&INPUTSPE	Input	Special characters correspondence file
PAC7GP	&&PAC7GP	Input	Work file
PAC7RQ	&&PAC7RQ	Input	Work file
PAC7W2	&&PAC7W6	Input	Work file
PAC7TA	&&PAC7TA	Output	Tagged Macro file



## Formatting of the tagged COBOL : BVPACFTA

Code	Physical name	Type	Label
PAC7TA	&&PAC7TA	Input	Work file
PAC7AT	&OUTFILE	Output	Work file

## Execution report : PACD90

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7KU	&&PAC7KU	Input	Input file for report
PAC7ID		Report	Execution report
PAC7KF	DUMMY	Input	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

## MIMA - Execution JCL

```

/* -----
/*      VISUALAGE PACBASE
/*
/* -----
/*      MACRO-STRUCTURES MIGRATION
/*
/* -----
/*
//BVP MIMA PROC BASE=$BASE,          CODE OF VAPAC DATABASE
//      INDUV='$INDUV',              INDEX OF USER VSAM FILES
//      INDSV='$INDSV',              INDEX OF VSAM SYSTEM FILES
//      INDMV='$INDMV',              INDEX OF VSAM FOR MIGRATION
//      INDMN='$INDMN',              INDEX OF NON VSAM FOR MIGRATION
//*:  SYSCAT='$SCAT',                SYSTEM VSAM CATALOG
//      STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//      STEPLIP=STEPLIP,             LIBRARY OF LOAD-MODULES VAPACBASE
//      INPUTSPE=,                   SPECIAL CHAR FILE
//      OUTFILE=,                    OUTPUT FILE MIGRATION
//      SPAOT='(TRK,(500,80),RLSE)',  OUTPUT FILE SPACE
//      VOLS='SER=$VOLUN',            BACKUP VOLUME
//      UNITS=$UNITUN,                BACKUP UNIT
//      SPAWK='(TRK,(50,10),RLSE)',   WORK FILE SPACE
//      SORTLIB='$BIBT',              SORT LIBRARY
//      LSR='BLSR',                   LSR BATCH SYSTEM NAME

```

```

//          UWK=$UWK,                      WORK UNIT
//          OUT=$OUT                        OUTPUT CLASS
//*****
//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&MIMAMB,DISP=(,PASS),
//          UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PACA10 EXEC PGM=BVPACA10
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=&STEPLIP,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,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')
//PAC7AJ DD DUMMY
//PAC7AE DD DSN=&INDMV..BVP AE,DISP=SHR
//GNLSR DD DSN=&INDSV..BVP GN,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')
//PAC7ME DD DSN=&&MIMAMB,DISP=(OLD,PASS)
//PAC7MG DD DSN=&&PAC7MG,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=15300)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACA30 EXEC PGM=BVPACA30
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,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')
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//PAC7MG DD DSN=&&PAC7MG,DISP=(OLD,PASS)
//PAC7JG DD DSN=&&PAC7JG,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7KU DD DSN=&&PAC7KU,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP30 EXEC PGM=BVPACP30
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7JG DD DSN=&&PAC7JG,DISP=(OLD,PASS)
//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')
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7W1 DD DSN=&PAC7W1,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7W2 DD DSN=&PAC7W2,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP40 EXEC PGM=BVPACP40
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,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')
//PAC7W1 DD DSN=&PAC7W1,DISP=(OLD,PASS)
//PAC7W2 DD DSN=&PAC7W2,DISP=(OLD,PASS)
//PAC7W3 DD DSN=&PAC7W3,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7W4 DD DSN=&PAC7W4,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=90,BLKSIZE=18000)
//PAC7KP DD DSN=&PAC7KP,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7GI DD DUMMY,DCB=BLKSIZE=80
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT

```

```

//SYSUDUMP DD SYSOUT=&OUT
//PACP80 EXEC PGM=BVPACP80
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,DISP=SHR
//PAC7SC DD DSN=&INDMV..BVPSC,DISP=SHR
//PAC7W3 DD DSN=&&PAC7W3,DISP=(OLD,PASS)
//PAC7W1 DD DSN=&&PAC7W5,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPACE,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PACP82 EXEC PGM=BVPACP82
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7W1 DD DSN=&&PAC7W5,DISP=(OLD,PASS)
//PAC7W4 DD DSN=&&PAC7W4,DISP=(OLD,PASS)
//PAC7GP DD DSN=&&PAC7GP,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPACE,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7EP DD DSN=&&PAC7EP,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPACE,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP84 EXEC PGM=BVPACP84
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,DISP=SHR
//PAC7W1 DD DSN=&&PAC7W5,DISP=(OLD,PASS)
//PAC7W2 DD DSN=&&PAC7W6,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPACE,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP86 EXEC PGM=BVPACP86

```

```

//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//SYSOUT DD SYSOUT=H
//PAC7W1 DD DSN=&&PAC7W1,DISP=(OLD,PASS)
//PAC7RQ DD DSN=&&PAC7RQ,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=50,BLKSIZE=1000)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP87 EXEC PGM=BVPACP87
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7CS DD DSN=&INPUTSPE,DISP=SHR
//PAC7GP DD DSN=&&PAC7GP,DISP=(OLD,PASS)
//PAC7RQ DD DSN=&&PAC7RQ,DISP=(OLD,PASS)
//PAC7W2 DD DSN=&&PAC7W6,DISP=(OLD,PASS)
//PAC7TA DD DSN=&&PAC7TA,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=27000,LRECL=1000)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACFTA EXEC PGM=BVPACFTA
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7TA DD DSN=&&PAC7TA,DISP=(OLD,PASS)
//PAC7AT DD DSN=&OUTFILE,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,BLKSIZE=27000,LRECL=1000)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACD90 EXEC PGM=BVPACD90,
// PARM='00000000000000000000000000000000'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&STEPLIP,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7KU DD DSN=&PAC7KU,DISP=(OLD,PASS)
//PAC7KF DD DUMMY
//PAC7ID DD SYSOUT=&OUT
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

---

## MIA1 - Program generation without specific code

### MIA1 - Overview

This procedure enables you to generate a program without its specific code.

### MIA1 - User input

A '\*' line with the user code, password and Library code is required.

Pos.	Len.	Value	Meaning
2	1	*	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password
19	3	bbb	Library code

You must then specify a GCP command line as described in the input of the GPRT procedure for each program to be generated.

### MIA1 - Description of steps

Input recognition: PTU001

Initialization of the output file(s)

Generation/Print commands : BVPACA10

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AY	&INDUV..&BASE.AY	Input	Development Database extension
PAC7AJ	&INDUV..&BASE.AJ	Input	Development Database journal
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index

Code	Physical name	Type	Label
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7ME	&&MIMAMB	Input	User transactions
PAC7MV	&&PAC7MV	Output	Update transactions
PAC7MG	&&PAC7MG	Output	Generation/Print commands

#### Dispatch of command lines : BVPACA20

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index
PACGGR	&INDSV..BVP GR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PACGGK	&INDSV..BVP GK	Input/ Output	Generation rights
PAC7JG	&&PAC7JG	Output	Extractor command
PAC7KF	&WK	Output	Work file
PAC7MG	&&PAC7MG	Input	Generation/Print commands
PAC7W1	DUMMY	Input/ Output	Work file
PAC7KU	&&PAC7KU	Output	Output report
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### Extractor for the generation of Programs: BVPACP30

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVP GN	Input	Administration Database data
PACGGN	&INDSV..BVP GR	Input	Administration Database index
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data



Code	Physical name	Type	Label
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AY	&INDUV..&BASE.AY	Input	Development Database extension data
PAC7JG	&&PAC7JG	Input	User transactions
PAC7W1	&&PAC7W1	Output	Work file
PAC7W2	&&PAC7W2	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

Post extraction without specific code : BVPACP35

Code	Physical name	Type	Label
PAC7W1	&&PAC7W1	Input	Work file
PAC7WM	&&PAC7WM	Output	Work file

Preparation for batch generation : BVPACP40

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7W1	&&PAC7WM	Input	Work file
PAC7W2	&&PAC7W2	Input	Work file
PAC7W3	&&PAC7W3	Output	Work file
PAC7W4	&&PAC7W4	Output	Work file
PAC7KP	&&PAC7KP	Output	Work file
PAC7GI	DUMMY	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

COBOL generator : BVPACP80

Code	Physical name	Type	Label
PAC7SC	&INDMV..BVPSC	Input	Generation skeleton

Code	Physical name	Type	Label
PAC7W3	&&PAC7W3	Input	Work file
PAC7W1	&&PAC7W5	Output	Work file

#### Formatting of the generated flow : BVPACP82

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVPGN	Input	Administration Database data
PACGGN	&INDSV..BVPGR	Input	Administraion Database index
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7W1	&&PAC7W5	Input	Work file
PAC7W4	&&PAC7W4	Input	Work file
PAC7GP	&&PAC7GP	Output	Generated Cobol without specific code
PAC7EP	&&PAC7EP	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### Execution report : BVPACD90

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7KU	&&PAC7KU	Input	Input file for report
PAC7ID		Report	Execution report
PAC7KF	DUMMY	Input	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

## MIA1 - Execution JCL

```

/** -----
/**      VISUALAGE PACBASE
/**
/** -----
/**      PROGRAM GENERATION WITHOUT SPECIFIC CODE
/**
/** -----
/**
//BVP MIA1 PROC BASE=$BASE,          CODE OF VAPAC DATABASE
//      INDUV='$INDUV',              INDEX OF USER VSAM FILES
//      INDSV='$INDSV',              INDEX OF VSAM SYSTEM FILES
//      INDMV='$INDMV',              INDEX OF VSAM FOR MIGRATION
//      INDMN='$INDMN',              INDEX OF NON VSAM FOR MIGRATION
/**:   SYSTCAT='$SCAT',              SYSTEM VSAM CATALOG
//      STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//      STEPLIP=STEPLIP,            LIBRARY OF LOAD-MODULES VAPACBASE
//      OUTFILE=,                   OUTPUT FILE MIGRATION
//      SPAOT='(TRK,(500,80),RLSE)',  OUTPUT FILE SPACE
//      VOLS='SER=$VOLUN',           BACKUP VOLUME
//      UNITS=$UNITUN,              BACKUP UNIT
//      SPAWK='(TRK,(50,10),RLSE)',   WORK FILE SPACE
//      SORTLIB='$BIBT',            SORT LIBRARY
//      LSR='BLSR',                 LSR BATCH SYSTEM NAME
//      UWK=$UWK,                   WORK UNIT
//      OUT=$OUT                    OUTPUT CLASS
//*****
//INPUT  EXEC  PGM=BVPTU001
/**-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//        DD DSN=$BCOB,DISP=SHR
//CARTE  DD DDNAME=SYSIN
//PAC7MB  DD DSN=&MIA1MB,DISP=(,PASS),
//        UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
//        DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PRLFILE EXEC  PGM=BVPRMSYS,PARM='&OUTFILE'
/**-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//        DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
//        UNIT=&UWK,
//        DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC  PGM=IDCAMS
/**-----
/**:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN   DD DSN=&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC  PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
/**-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//        DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR

```

```

//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
//          UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PACA10 EXEC PGM=BVPACA10
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=&STEPLIP,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,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')
//PAC7AJ DD DUMMY
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7ME DD DSN=&&MIA1MB,DISP=(OLD,PASS)
//PAC7MG DD DSN=&&PAC7MG,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=153,BLKSIZE=15300)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACA20 EXEC PGM=BVPACA20
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//*          DD DSN=$DFHEXC,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')
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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..BVPGR,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PACGGK DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7JG DD DSN=&&PAC7JG,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7KF DD UNIT=&UWK,SPACE=(TRK,(20,5),RLSE),DCB=BLKSIZE=27820
//PAC7MG DD DSN=&&PAC7MG,DISP=(OLD,PASS)
//PAC7W1 DD DUMMY
//PAC7KU DD DSN=&&PAC7KU,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP30 EXEC PGM=BVPACP30
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7JG DD DSN=&&PAC7JG,DISP=(OLD,PASS)
//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')
//PAC7AE DD DSN=&INDMV..BVPAR,DISP=SHR
//GNLSR DD DSN=&INDSV..BVPGR,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..BVPGR,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7W1 DD DSN=&&PAC7W1,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7W2 DD DSN=&&PAC7W2,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)

```

```

//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP35 EXEC PGM=BVPACP35
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7W1 DD DSN=&&PAC7W1,DISP=(OLD,PASS)
//PAC7WM DD DSN=&&PAC7WM,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PACP40 EXEC PGM=BVPACP40
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,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')
//PAC7W1 DD DSN=&&PAC7WM,DISP=(OLD,PASS)
//PAC7W2 DD DSN=&&PAC7W2,DISP=(OLD,PASS)
//PAC7W3 DD DSN=&&PAC7W3,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7W4 DD DSN=&&PAC7W4,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=90,BLKSIZE=18000)
//PAC7KP DD DSN=&&PAC7KP,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7GI DD DUMMY,DCB=BLKSIZE=80
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACP80 EXEC PGM=BVPACP80
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7SC DD DSN=&INDMV..BVPSC,DISP=SHR
//PAC7W3 DD DSN=&&PAC7W3,DISP=(OLD,PASS)
//PAC7W1 DD DSN=&&PAC7W5,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)

```

```

//PACP82 EXEC PGM=BVPACP82
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVP AE,DISP=SHR
//GNLSR DD DSN=&INDSV..BVP GN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVP GR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVP GU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7W1 DD DSN=&&PAC7W5,DISP=(OLD,PASS)
//PAC7W4 DD DSN=&&PAC7W4,DISP=(OLD,PASS)
//PAC7GP DD DSN=&OUTFILE,DISP=(,CATLG),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAOT,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7EP DD DSN=&&PAC7EP,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACD90 EXEC PGM=BVPACD90,
// PARM='00000000000000000000000000000000'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&STEPLIP,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVP AE,DISP=SHR
//GNLSR DD DSN=&INDSV..BVP GN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVP GR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVP GU,DISP=SHR
//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7KU DD DSN=&&PAC7KU,DISP=(OLD,PASS)
//PAC7KF DD DUMMY
//PAC7ID DD SYSOUT=&OUT
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

---

## MIA2 - Screen generation without specific code

### MIA2 - Overview

This procedure enables you to generate a Screen without its specific code.

### MIA2 - User input

A '\*' line with the user code, password and Library code is required.

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password
19	3	bbb	Library code

You must then specify a GCO command line as described in the input of the GPRT procedure for each screen to be generated.

### MIA2 - Description of steps

Input recognition: PTU001

Initialization of the output file(s)

Generation/Print commands : BVPACA10

Code	Physical name	Type	Label
PAC7AR	&INDUV.&BASE.AR	Input	Development Database data
PAC7AN	&INDUV.&BASE.AN	Input	Development Database index
PAC7AY	&INDUV.&BASE.AY	Input	Development Database extension
PAC7AJ	&INDUV.&BASE.AJ	Input	Development Database journal
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index
PACGGR	&INDSV..BVP GR	Input	Administration Database data
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7ME	&&MIMAMB	Input	User transactions
PAC7MV	&&PAC7MV	Output	Update transactions
PAC7MG	&&PAC7MG	Output	Generation/Print commands



### Dispatch of command lines : BVPACA20

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index
PACGGR	&INDSV..BVP GR	Input	Administration Database data
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PACGGK	&INDSV..BVP GK	Input/ Output	Generation rights
PAC7JG	&&PAC7JG	Output	Extractor command
PAC7KF	&WK	Output	Work file
PAC7MG	&&PAC7MG	Input	Generation/Print commands
PAC7W1	DUMMY	Input/ Output	Work file
PAC7KU	&&PAC7KU	Output	Output report
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

### Extractor for the generation of Screens : BVPACE31

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVP GN	Input	Administration Database data
PACGGN	&INDSV..BVP GR	Input	Administration Database index
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AY	&INDUV..&BASE.AY	Input	Development Database extension data
PAC7JG	&&PAC7JG	Input	User transactions
PAC7W1	&&PAC7W1	Output	Work file
PAC7KE	&&PAC7KE	Output	Work file
SORTWK01		Sort	

Code	Physical name	Type	Label
SORTWK02		Sort	
SORTWK03		Sort	

#### Post extraction without specific code : BVPACE35

Code	Physical name	Type	Label
PAC7W1	&&PAC7W1	Input	Work file
PAC7WM	&&PAC7WM	Output	Work file

#### Preparation for screen generation : BVPACE40

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AN	&INDUV..&BASE.AY	Input	Development Database Extension Data
PAC7AE	&INDMV..BVP AE	Input	Error messages
PAC7W1	&&PAC7WM	Input	Work file
PAC7W2	&&PAC7W2	Output	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

#### Generation of Screens : BVPACE80

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGR	&INDSV..BVP GN	Input	Administration Database data
PACGGN	&INDSV..BVP GR	Input	Administration Database index
PACGGU	&INDMV..BVP SC	Input	Administration Database users
PAC7SG	&INDMV..BVP SG	Input	Generation skeleton
PAC7W2	&&PAC7W2	Input	Work file
PAC7EE	DUMMY	Output	Work file
PAC7GE	&OUTFILE	Output	Generated Cobol without specific
SORTWK01		Sort	

Code	Physical name	Type	Label
SORTWK02		Sort	
SORTWK03		Sort	

#### Execution report : BVPACD90

Code	Physical name	Type	Label
PAC7AE	&INDMV..BVP AE	Input	Error messages
PACGGN	&INDSV..BVP GN	Input	Administration Database index
PACGGR	&INDSV..BVP GR	Input	Administration Database data
PACGGU	&INDSV..BVP GU	Input	Administration Database users
PAC7KU	&&PAC7KU	Input	Input file for report
PAC7ID		Report	Execution report
PAC7KF	DUMMY	Input	Work file
SORTWK01		Sort	
SORTWK02		Sort	
SORTWK03		Sort	

### MIA2 - Execution JCL

```

/** -----
/**      VISUALAGE PACBASE
/**
/** -----
/**      SCREEN GENERATION WITHOUT SPECIFIC CODE
/**
/** -----
/**
//BVP MIA2 PROC BASE=$BASE,          CODE OF VAPAC DATABASE
//      INDUV='$INDUV',              INDEX OF USER VSAM FILES
//      INDSV='$INDSV',              INDEX OF VSAM SYSTEM FILES
//      INDMV='$INDMV',              INDEX OF VSAM FOR MIGRATION
//      INDMN='$INDMN',              INDEX OF NON VSAM FOR MIGRATION
/**:   SYSCAT='$SCAT',                SYSTEM VSAM CATALOG
//      STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//      STEPLIP=STEPLIP,             LIBRARY OF LOAD-MODULES VAPACBASE
//      OUTFILE=,                    OUTPUT FILE MIGRATION
//      SPAOT='(TRK,(500,80),RLSE)',  OUTPUT FILE SPACE
//      VOLS='SER=$VOLUN',            BACKUP VOLUME
//      UNITS=$UNITUN,               BACKUP UNIT
//      SPAWK='(TRK,(50,10),RLSE)',   WORK FILE SPACE
//      SORTLIB='$BIBT',              SORT LIBRARY
//      LSR='BLSR',                  LSR BATCH SYSTEM NAME
//      UWK=$UWK,                    WORK UNIT
//      OUT=$OUT                      OUTPUT CLASS
/** *****

```

```

//INPUT EXEC PGM=BVPTU001
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//CARTE DD DDNAME=SYSIN
//PAC7MB DD DSN=&&MIA2MB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(5,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//PRLFILE EXEC PGM=BVPRMSYS,PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(LIOUTFIL),DISP=SHR
//PACROU DD DSN=&&LIFILE,DISP=(,PASS),SPACE=(TRK,1),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//LISFILE EXEC PGM=IDCAMS
//*-----
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&LIFILE,DISP=(OLD,DELETE)
//PRDFILE EXEC PGM=BVPRMSYS,COND=(4,EQ,LISFILE),PARM='&OUTFILE'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PACRIN DD DSN=&INDMN..BVPSY(DLOUTFIL),DISP=SHR
//PACROU DD DSN=&&DLFILE,DISP=(,PASS),SPACE=(TRK,1),
// UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//DELFILE EXEC PGM=IDCAMS,COND=(4,EQ,LISFILE)
//*-----
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&&DLFILE,DISP=(OLD,DELETE)
//PACA10 EXEC PGM=BVPACA10
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&STEPLIP,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,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')
//PAC7AJ DD DUMMY
//PAC7AE DD DSN=&INDMV..BVP AE,DISP=SHR
//GNLSR DD DSN=&INDSV..BVP GN,DISP=SHR
//PACGGN DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR DD DSN=&INDSV..BVP GR,DISP=SHR
//PACGGR DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR DD DSN=&INDSV..BVP GU,DISP=SHR

```

```

//PACGGU DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7ME DD DSN=&&MIA2MB,DISP=(OLD,PASS)
//PAC7MG DD DSN=&&PAC7MG,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=153,BLKSIZE=15300)
//PAC7MV DD DSN=&&PAC7MV,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACA20 EXEC PGM=BVPACA20
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=$BCOB,DISP=SHR
//* DD DSN=$DFHEXC,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')
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PACGGK DD DSN=&INDSV..BVPKG,DISP=SHR
//PAC7JG DD DSN=&&PAC7JG,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7KF DD UNIT=&UWK,SPACE=(TRK,(20,5),RLSE),DCB=BLKSIZE=27820
//PAC7MG DD DSN=&&PAC7MG,DISP=(OLD,PASS)
//PAC7W1 DD DUMMY
//PAC7KU DD DSN=&&PAC7KU,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,
// SPACE=&SPAWK,
// DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACE31 EXEC PGM=BVPACE31
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR

```

```

//          DD DSN=$BCOB,DISP=SHR
// *        DD DSN=$DFHEXC,DISP=SHR
//PAC7JG    DD DSN=&&PAC7JG,DISP=(OLD,PASS)
//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')
//PAC7AE    DD DSN=&INDMV..BVP AE,DISP=SHR
//GNLSR     DD DSN=&INDSV..BVP GN,DISP=SHR
//PACGGN    DD SUBSYS=(&LSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR     DD DSN=&INDSV..BVP GR,DISP=SHR
//PACGGR    DD SUBSYS=(&LSR,'DDNAME=GRLSR','BUFND=10')
//GULSR     DD DSN=&INDSV..BVP GU,DISP=SHR
//PACGGU    DD SUBSYS=(&LSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7W1    DD DSN=&&PAC7W1,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PAC7KE    DD DSN=&&PAC7KE,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB   DD DSN=&SORTLIB,DISP=SHR
//SORTWK01  DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02  DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03  DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT  DD SYSOUT=&OUT
//SYSOUT     DD SYSOUT=&OUT
//SYSUDUMP   DD SYSOUT=&OUT
//PACE35    EXEC PGM=BVPACE35
// *-----
//STEPLIB   DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
// *        DD DSN=$DFHEXC,DISP=SHR
//PAC7W1     DD DSN=&&PAC7W1,DISP=(OLD,PASS)
//PAC7WM     DD DSN=&&PAC7WM,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//PACE40     EXEC PGM=BVPACE40
// *-----
//STEPLIB   DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
// *        DD DSN=$DFHEXC,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')
//PAC7AE    DD DSN=&INDMV..BVP AE,DISP=SHR
//PAC7W1    DD DSN=&&PAC7WM,DISP=(OLD,PASS)
//PAC7W2    DD DSN=&&PAC7W2,DISP=(,PASS),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAWK,

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//          DCB=(RECFM=FB,LRECL=260,BLKSIZE=26000)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACE80 EXEC PGM=BVPACE80
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//          DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7SG DD DSN=&INDMV..BVPSP,DISP=SHR
//PAC7W2 DD DSN=&&PAC7W2,DISP=(OLD,DELETE)
//PAC7EE DD DUMMY
//PAC7GE DD DSN=&OUTFILE,DISP=(,CATLG),
//          UNIT=&UNITS,VOL=&VOLS,
//          SPACE=&SPAOT,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PACD90 EXEC PGM=BVPACD90,
//          PARM='00000000000000000000000000000000'
//*-----
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//          DD DSN=&STEPLIP,DISP=SHR
//          DD DSN=$BCOB,DISP=SHR
//          DD DSN=$DFHEXC,DISP=SHR
//PAC7AE DD DSN=&INDMV..BVPAE,DISP=SHR
//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')
//PAC7KU DD DSN=&&PAC7KU,DISP=(OLD,PASS)
//PAC7KF DD DUMMY
//PAC7ID DD SYSOUT=&OUT
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)

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//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,2,,CONTIG)
//SYSPRINT DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
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