



VisualAge Pacbase 2.5

**VA PAC 2.0/2.5 – BULL GCOS7/TDS  
OPERATIONS MANUAL VOLUME IV : NON STANDARD RETRIEVALS**

DEZD700020AA

**Note**

Before using this document, read the general information under "Notices" on the next page.

According to your license agreement, you may consult or download the complete up-to-date collection of the VisualAge Pacbase documentation from the VisualAge Pacbase Support Center at:

<http://www.software.ibm.com/ad/vapacbase/support.htm>

Consult the Catalog section in the Documentation home page to make sure you have the most recent edition of this document.

**First Edition (January 1998)**

This edition applies to the following licensed programs:

- VisualAge Pacbase Version 2.0
- VisualAge Pacbase Version 2.5

Comments on publications (including document reference number) should be sent electronically through the Support Center Web site at:

<http://www.software.ibm.com/ad/vapacbase/support.htm>

or to the following postal address:

IBM Paris Laboratory  
VisualAge Pacbase Support  
30, rue du Château des Rentiers  
75640 PARIS Cedex 13  
FRANCE

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© Copyright International Business Machines Corporation 1983, 1999. All rights reserved.

Note to U.S. Government Users – Documentation related to restricted rights – Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

## NOTICES

References in this publication to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Subject to IBM's valid intellectual property or other legally protectable rights, any functionally equivalent product, program, or service may be used instead of the IBM product, program, or service. The evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, are the responsibility of the user.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Intellectual Property and Licensing  
International Business Machines Corporation  
North Castle Drive, Armonk, New-York 10504-1785  
USA

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of information which has been exchanged, should contact:

IBM Paris Laboratory  
SMC Department  
30, rue du Château des Rentiers  
75640 PARIS Cedex 13  
FRANCE

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

IBM may change this publication, the product described herein, or both.

## TRADEMARKS

IBM is a trademark of International Business Machines Corporation, Inc. AIX, AS/400, CICS, CICS/MVS, CICS/VSE, COBOL/2, DB2, IMS, MQSeries, OS/2, PACBASE, RACF, RS/6000, SQL/DS, TeamConnection, and VisualAge are trademarks of International Business Machines Corporation, Inc. in the United States and/or other countries.

Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States and/or other countries.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States and/or other countries.

UNIX is a registered trademark in the United States and/or other countries licensed exclusively through X/Open Company Limited.

All other company, product, and service names may be trademarks of their respective owners.



## TABLE OF CONTENTS

<b>1. FOREWORD</b> .....	<b>7</b>
<b>2. COMPONENTS OF THE RETRIEVAL PACKAGE</b> .....	<b>9</b>
2.1. THE BATCH-PROGRAM LIBRARY .....	10
2.2. THE BATCH PROCEDURES .....	11
<b>3. INSTALLATION</b> .....	<b>13</b>
<b>4. PACBASE 8.0 / 8.0.1 RETRIEVAL</b> .....	<b>15</b>
4.1. 8.0 / 8.0.1 RETRIEVAL - OPERATIONS TO BE PERFORMED.....	16
4.2. PE80: USER-PARAMETER RETRIEVAL.....	20
4.3. PC80: PACBASE-DATABASE RETRIEVAL.....	21
4.4. PJ80: ARCHIVED-JOURNAL RETRIEVAL .....	22
<b>5. YSM-METHODOLOGY RETRIEVAL</b> .....	<b>24</b>
5.1. YSM RETRIEVAL - OPERATIONS TO BE PERFORMED .....	25
5.2. PC-FILE RETRIEVAL (PCYS).....	27
5.2.1. DESCRIPTION OF STEPS (PCYS).....	27
5.2.2. EXECUTION JCL (PCYS).....	28
5.3. PJ-FILE RETRIEVAL (PJYS) .....	29
5.3.1. DESCRIPTION OF STEPS (PJYS).....	29
5.3.2. EXECUTION JCL (PJYS).....	30
5.4. USER-ENTITY RETRIEVAL (RTYS).....	31
5.4.1. DESCRIPTION OF STEPS (RTYS).....	31
5.4.2. EXECUTION JCL (RTYS) .....	32



VisualAge Pacbase - Operations Manual	PAGE	7
NON-STANDARD RETRIEVALS (EXTRACT)		
FOREWORD		1

## 1. FOREWORD

## FOREWORD

### PURPOSE OF THIS MANUAL

This manual is intended for the VisualAge Pacbase Administrator. It describes the steps and instructions for retrieving databases created in Pacbase releases older than Rel.8.0.2v02.

As a general rule, it is advised to install the new release/version in an environment quite separate from the older release environment, i.e., with different installation parameters.



VisualAge Pacbase - Operations Manual	PAGE	9
NON-STANDARD RETRIEVALS (EXTRACT)		
COMPONENTS OF THE RETRIEVAL PACKAGE		2

## **2. COMPONENTS OF THE RETRIEVAL PACKAGE**

## 2.1. THE BATCH-PROGRAM LIBRARY

### THE BATCH-PROGRAM LIBRARY

```
-----  
!  PROGR. ! PROCEDURES ! MODULE ! COMMENTS !  
!  CODE   !           ! OPTION !           !  
-----  
! PACR02 ! PP73      ! PEI    ! PEI 7.3 retrieval !  
! PTUDQ2 ! TRDQ      ! SQL    !           !  
! PTURPC ! PC73      ! DIC    ! 7.3 database retrieval !  
! PTU890 ! TRUV      ! PDM    ! Retrieval of manuals (U) !  
!         !           !         ! as volumes (V) !  
! PTU902 ! PE73 PE80 ! DIC    ! 7.3, 8.0 utility retrieval !  
! PTU916 ! PJ73      ! DIC    ! 7.3 Journal retrieval !  
! PTU917 ! PJ73 PJ80 ! DIC    ! 7.3, 8.0 Journal retrieval !  
! REJYSM ! PJYS      ! YSM    ! Journal retrieval for YSM !  
! REPAFL ! RTYS      ! YSM    ! YSM retrieval for AFL !  
! REPGDP ! PC80      ! DIC    ! 8.0 Database retrieval !  
! REPMVT ! RTMV      ! DIC    ! 8.0.1 transaction retriev.!  
! REPYSM ! PCYS      ! YSM    ! Database retrieval for YSM!  
-----
```

All the programs used in the procedures and not shipped in this package are included in the VisualAge Pacbase installation package.

## 2.2. *THE BATCH PROCEDURES*

### THE BATCH PROCEDURES

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

The documentation of each procedure includes the following:

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

### PROCEDURE CLASSIFICATION

Batch procedures are documented in the following manuals:

#### Batch procedures - Administrator's Guide:

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

#### Batch procedures - User's guide:

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

VisualAge Pacbase - Operations Manual  
NON-STANDARD RETRIEVALS (EXTRACT)  
INSTALLATION

PAGE 13

3

### **3. INSTALLATION**

### INSTALLATION

Non-standard retrieval procedures are shipped in a package distinct from the VisualAge Pacbase procedure package. This package includes the JCL for the retrieval procedures and the program compil-units.

The cartridge (or tape) shipped for this version contains two files:

```
-SV.JCL    for procedures
-SV.CUB    for programs
```

Installation of the package is performed in the VisualAge Pacbase environment, in three steps:

1. Copy of the files onto the disk:

```
LMN SL,IF=(SV.JCL,DVC=CT/M5,MD=$TAPE,FSN=1,END=LEAVE)
      LIB=($NMLI.$LIBJCL),
      COM='MV INFILE:* REPLACE;;
```

```
LMN CU,IF=(SV.CUB,DVC=CT/M5,MD=$TAPE,FSN=2,END=LEAVE),
      LIB=($NMLI.$LIBCUB),
      COM='MV INFILE:* REPLACE;;
```

2. Adaptation of the procedures to the site's features:

```
LMN SL,LIB=($NMLI.$LIBJCL),
      COM='EXEC PBZZEXEC VL=UP* BRIEF;';
```

3. Linking of programs:

```
EJ UPINRPLN,, $NMLI.$LIBJCL
```

In the above commands, the \$nnnn parameters refer to the parameters for JCL adaptation, whose values are set by the PBZZVALS member in the VisualAge Pacbase JCL library.

VisualAge Pacbase - Operations Manual  
NON-STANDARD RETRIEVALS (EXTRACT)  
PACBASE 8.0 / 8.0.1 RETRIEVAL

PAGE 15

4

## **4. PACBASE 8.0 / 8.0.1 RETRIEVAL**

#### *4.1. 8.0 / 8.0.1 RETRIEVAL - OPERATIONS TO BE PERFORMED*

##### 8.0, 8.01 RETRIEVALS: OPERATIONS TO BE PERFORMED

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

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

For users of the PEI function:

- . Retrieval of Production Environment Interface (PEI)

For users of the WorkStation:

- . Retrieval of YSM methodology
- . The WorkStation's dedicated User Entities must be uploaded into the Database via the UPDT procedure, after the Database has been retrieved and restored in the new release.

Retrieval JCLs for the appropriate sequencing of these steps are supplied. They should be adapted by the user.



1-Retrieval of User parameters

- . Retrieval of the 8.0 or 8.0.1 user parameters backup (PE80 procedure).

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

- . Re-initialization of the AE file from the AE0 file supplied for installation.

Execution of the new PARM procedure using as input the PE backup file produced by the parameter retrieval, the '\*\*\*\*\*' user code, and NRREST as input parameter.

- . Use of the WorkStation: execution of the new PARM procedure. The input should include the transactions associated to the parameters settings for the methodology used (NRCHAR command).

Refer to the paragraph describing the installation of the methodology choices, in Chapter 'INSTALLATION' of the Environment & Installation manual for this VisualAge Pacbase release.

RESULT: AE and AP files, containing the 8.0 user parameters retrieved in the new format.

## 2-Retrieval of an 8.0 Database

- . 8.0 backup of the database whose output is an 8.0 PC file (8.0 SAVE procedure).
- . Retrieval of the resulting PC 8.0 file in the new format (PC80 procedure), producing a new-format PC backup.
- . If you are using the YSM method with the new release of the WorkStation, retrieval of YSM method (PCYS procedure) from the new-format PC backup.
- . Reorganization (new REOR) of the new-format backup obtained from the previous step.
- . Journal file (new format) initialization (ARCH).
- . Database new format) restoration (REST) (new PC file obtained from REOR as input).
- . 8.0 Backup of generation-printing commands (8.0 SVAG procedure), whose output is an 8.0 PG file.
- . Reorganization-restoration of generation-print commands (new REAG) from the 8.0 PG backup in the previous step.

If libraries, sessions, and/or user codes have been deleted via the database reorganization, the corresponding transactions must be entered for the reorganization of the AG file. Obsolete generation-print requests related to deleted sessions or libraries will be purged. Commands entered by users in 8.0 and cancelled in the new release will also be purged from the AG file.

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

### 3-Retrieval of an 8.0 Production Environment Interface

- . 8.0 PEI backup file (8.0 SVPE procedure) whose output is a 8.0 PP file.
- . PEI restoration (new RSPE procedure) using as input the backup produced by the previous step.

RESULT: The AB and AC files are operational under the new VisualAge Pacbase release.

### 4-Retrieval of the YSM Methodology

Perform the retrieval of PACBASE 8.0/8.0.1 as described above by executing the PCYS procedure after retrieving the PC file (PC80 procedure), and before reorganizing the database (REOR procedure).

Retrieval of the Archived Journal is also available (PJYS).

Refer to Chapter 'RETRIEVAL OF THE YSM METHODOLOGY' for complete information about these procedures.

### 5-Retrieval of an 8.0 Archived Journal in the new format (optional)

PJ80 batch procedure.

A procedure for the retrieval of the 8.0 archived journal in the new format is also supplied.

It provides for the analysis (ACTI procedure), transaction extraction (EXPJ procedure), restoration-retrieval (REST/RESY procedures with the REC parameter) of transactions archived in the 8.0 release, using the new releases of the procedures.

DSMS users who have modified their product code(s) in the new DSMS release can perform this code change in the PACBASE journal, using an input of the PJ80 procedure.

## 4.2. PE80: USER-PARAMETER RETRIEVAL

```
COMM 'VISUALAGE PACBASE 2.0';
MVL  OLDPE='OLDPE',
     PAC7PE=' $NMBU.$ROOT$FILEPE',
     CTTUN=' FILESTAT=UNCAT ,DVC=$DVTU ,MD=$MDTU',
     RFTU=&CTTU$CTTU,
     CTBSN=' FILESTAT=UNCAT ,DVC=$DVBS ,MD=$MDBS',
     RFBS=&CTBS$CTBS,
     CTLIN=' FILESTAT=UNCAT ,DVC=$DVLI ,MD=$MDLI',
     RFLI=&CTLI$CTLI,
     CTBUN=' FILESTAT=UNCAT ,DVC=$DVBU ,MD=$MDBU',
     RFBU=&CTBU$CTBU,
     CTAJN=' FILESTAT=UNCAT ,DVC=$DVAJ ,MD=$MDAJ',
     RFAJ=&CTAJ$CTAJ,
     CTGENY=' /G+1', CTGENTY=' /G+1', CTGENDN=' G1',
     RFGEN=&CTGEN$MDSVPE$CTBU,
     RFTM=' DVC=$DVTM ,MD=$MDTM';
CR   IF=*PE80,
     OF=( TMBPE80 ,&RFTM ,TEMPRY ,END=PASS),
     OUTDEF=( CISZ=2048 ,RECSZ=80 ,RECFORM=FB);
COMM '*** PTU902 ***';
STEP PTU902 ,FILE=( $NMLI.$LIBLM ,&RFLI), DUMP=DATA;
SZ   130;
ASG  PAC7IN ,&OLDPE;
ASG  PAC7OU ,&PAC7PE!!&RFGEN ,&RFBU;
ASG  PAC7MC ,TMBPE80 ,&RFTM ,TEMPRY;
ASG  PAC7EI ,SYS.OUT;
ESTP;
JUMP ERR ,SW20 ,EQ ,1;
CR   IF=( $NMBS.$ROOT$ROOTAE0 ,&RFBS),
     OF=( $NMTU.$ROOT$ROOTAE ,&RFTU);
JUMP END;
ERR:
SEND ' PBINPE80 - ABNORMAL END OF RUN  ';
LET  SEV 3;
END:
```

### 4.3. PC80: PACBASE-DATABASE RETRIEVAL

```
COMM 'VISUALAGE PACBASE 2.0';
MVL  OLDPC='OLDPC',
     PAC7PC='$NMBU.$ROOT$FILEPC',
     CTUN='FILESTAT=UNCAT,DVC=$DVTU,MD=$MDTU',
     RFTU=&CTTU$CTTU,
     CTBSN='FILESTAT=UNCAT,DVC=$DVBS,MD=$MDBS',
     RFBS=&CTBS$CTBS,
     CTLIN='FILESTAT=UNCAT,DVC=$DVLI,MD=$MDLI',
     RFLI=&CTLI$CTLI,
     CTBUN='FILESTAT=UNCAT,DVC=$DVBU,MD=$MDBU',
     RFBU=&CTBU$CTBU,
     CTAJN='FILESTAT=UNCAT,DVC=$DVAJ,MD=$MDAJ',
     RFAJ=&CTAJ$CTAJ,
     CTGENY='/G+1',CTGENTY='/G+1',CTGENDN='G1',
     RFGEN=&CTGEN$MDSVPC$CTBU,
     RFTM='DVC=$DVTM,MD=$MDTM';
COMM '*** REPGDP ***';
STEP REPGDP,FILE=($NMLI.$LIBLM,&RFLI),DUMP=DATA;
  SZ  130;
  ASG PAC7MC,&OLDPC;
  ASG PAC7PC,&PAC7PC!!&RFGEN,&RFBU;
  ASG PAC7EI,SYS.OUT;
ESTP;
JUMP ERR,SW20,EQ,1;
COMM '*** SHIFT PAC7PC ***';
JUMP SHFT$MDSVPC$CTBU;
SHFTTY:SHFTDY;
SHIFT &PAC7PC;
JUMP SHFTE;
SHFTDN:
FILMODIF FILE=(&PAC7PC,&RFBU)      NEWNAME=&PAC7PC!!G2;
FILMODIF FILE=(&PAC7PC!!G1,&RFBU)  NEWNAME=&PAC7PC;
FILMODIF FILE=(&PAC7PC!!G2,&RFBU)  NEWNAME=&PAC7PC!!G1;
JUMP SHFTE;
SHFTTN:
SHFTE:
JUMP END;
ERR:
SEND ' PBINPC80 - ABNORMAL END OF RUN  ';
LET  SEV 3;
END:
```

#### 4.4. PJ80: ARCHIVED-JOURNAL RETRIEVAL

##### RETRIEVAL OF ARCHIVE JOURNAL

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

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

##### USER INPUT (optional)

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

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

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

PACBASE 8.0 / 8.0.1 RETRIEVAL  
 PJ80: ARCHIVED-JOURNAL RETRIEVAL

4  
 4

```

COMM 'VISUALAGE PACBASE 2.0';
MVL OLDPJ='OLDPJ',
    PAC7PJ='$NMBU.$ROOT$FILEPJ',
    CTUN='FILESTAT=UNCAT,DVC=$DVTU,MD=$MDTU',
    RFTU=&CTTU$CTTU,
    CTBSN='FILESTAT=UNCAT,DVC=$DVBS,MD=$MDBS',
    RFBS=&CTBS$CTBS,
    CTLIN='FILESTAT=UNCAT,DVC=$DVLI,MD=$MDLI',
    RFLI=&CTLI$CTLI,
    CTBUN='FILESTAT=UNCAT,DVC=$DVBU,MD=$MDBU',
    RFBU=&CTBU$CTBU,
    CTAJN='FILESTAT=UNCAT,DVC=$DVAJ,MD=$MDAJ',
    RFAJ=&CTAJ$CTAJ,
    CTGENY='/G+1',CTGENTY='/G+1',CTGENDN='G1',
    RFGEN=&CTGEN$MDSVPJ$CTBU,
    RFTM='DVC=$DVTM,MD=$MDTM';
CR  IF=*PJ80,
    OF=(TMBPJ80,TEMPRY,&RFTM,END=PASS),
    OUTDEF=(CISZ=2048,RECSZ=80,RECFORM=FB);
COMM '*** PTU917 ***';
STEP PTU917,FILE=( $NMLI.$LIBLM,&RFLI),REPEAT,DUMP=DATA;
    SZ 70;
    ASG PAC7MB,TMBPJ80,&RFTM,TEMPRY;
    ASG PAC7IN,&OLDPJ;
    ASG PAC7OU,&PJ16,TEMPRY,&RFTM,END=PASS;
ESTP;
JUMP ERR,SW20,EQ,1;
STEP REP2PJ,FILE=( $NMLI.$LIBLM,&RFLI),REPEAT,DUMP=DATA;
    SZ 70;
    ASG PAC7PJ,&PJ16,TEMPRY,&RFTM;
    ASG PAC7JP,&PAC7PJ!!&RFGEN,&RFBU;
ESTP;
JUMP ERR,SW20,EQ,1;
COMM '*** SHIFT PAC7PJ ***';
JUMP SHFT$MDSVPJ$CTBU;
SHFTTY:SHFTDY:
SHIFT &PAC7PJ;
JUMP SHFTE;
SHFTDN:
FILMODIF FILE=(&PAC7PJ,&RFBU) NEWNAME=&PAC7PJ!!G2;
FILMODIF FILE=(&PAC7PJ!!G1,&RFBU) NEWNAME=&PAC7PJ;
FILMODIF FILE=(&PAC7PJ!!G2,&RFBU) NEWNAME=&PAC7PJ!!G1;
JUMP SHFTE;
SHFTTN:
SHFTE:
JUMP END;
ERR:
SEND 'PBINPJ80 - ABNORMAL END OF RUN ';
LET SEV 3;
END:

```

VisualAge Pacbase - Operations Manual  
NON-STANDARD RETRIEVALS (EXTRACT)  
YSM-METHODOLOGY RETRIEVAL

PAGE 24

5

## **5. YSM-METHODOLOGY RETRIEVAL**



## 5.1. YSM RETRIEVAL - OPERATIONS TO BE PERFORMED

### YSM METHODOLOGY RETRIEVAL OPERATIONS

Since release 8.0.2 02, PACBASE has allowed several methodologies to be kept in the same library sub-network. The internal names of the WorkStation YSM entities have been changed specifically for this purpose.

Therefore, it is necessary to retrieve the YSM methodology when receiving the present release, if:

- . 1st case: You have an 8.0.1 PACBASE release; YSM retrieval is then comprised into the 8.0.1 PACBASE retrieval. In this chapter, you need only take into account what refers to the RTYS procedure.
- . 2nd case: You have an 8.0.2 01 PACBASE release and you have to upgrade it to the present WorkStation level.

The following procedure sequence must be run to perform this retrieval:

1. ARCH:  
Creation of a PJ file.
2. SAVE:  
Creation of a PC file.
3. PCYS:  
This first special retrieval procedure operates either on the entire database or on a set of libraries, specified in the procedure's input.

The PC backup resulting from step 1 is the input of the procedure. The resulting output contains a PC(+1) backup and the list of the database libraries which have been modified.

User input is optional. '\*' lines are used to indicate the libraries which contain YSM entities.

When there is no '\*' line, the retrieval is performed on the whole database.

NOTE: if your database contains several methodologies, you must specify the HIGHEST-LEVEL library containing the YSM methodology.

4. REOR

5. REST

6. UPDT

Update from the release DESYSM file.

7. OPTIONAL: Retrieval of the YSM methodology on the archived file:

If necessary, a retrieval of the methodology can be performed on the PJ journal file resulting from the last archiving or from the retrieval. It is the PJYS procedure.

The PJ backup resulting from step 1 and the list of the database libraries modified by PCYS are used as input to the procedure. The resulting output is a PJ(+1) backup.

8. RTYS (RETRIEVAL OF THE AFL ENTITY):

The AFL retrieval is performed only if you request it for a given library and a given session.

The RTYS directly operates on the database by creating update transactions on the \$3V UEOs.

A '\*' line is input for each Library/Session to be processed. It must be submitted once the DESYSM file containing the WorkStation entities for the new release has been loaded.

The PACBASE database is the input of the procedure.

The resulting output is a file which contains update transactions.

	PAGE	27
YSM-METHODOLOGY RETRIEVAL		5
PC-FILE RETRIEVAL	(PCYS)	2
DESCRIPTION OF STEPS	(PCYS)	1

## 5.2. PC-FILE RETRIEVAL (PCYS)

### 5.2.1. DESCRIPTION OF STEPS (PCYS)

YSM RETRIEVAL: REPYSM

```
.Permanent input file:
-Backup file
  PAC7MC : EFN=$NMBU.$ROOT$FILEPC

.Transaction file:
-User input
  PAC7MB : EFN=TMBPCYS

.Output files:
-Backup file
  PAC7PC : EFN=$NMBU.$ROOT$FILEPC/G+1
-List of modified libraries
  PAC7MD : EFN=$NMBU.$ROOT$FILEMD
```

YSM-METHODOLOGY RETRIEVAL  
 PC-FILE RETRIEVAL  
 EXECUTION JCL

(PCYS)  
 (PCYS)

5  
 2  
 2

### 5.2.2. EXECUTION JCL (PCYS)

```

COMM 'VISUALAGE PACBASE 2.0';
MVL PAC7PC=' $NMBU.$ROOT$FILEPC',
    SIZEAN=20,SIZEAR=30,
    CTTUN=' FILESTAT=UNCAT,DVC=$DVTU,MD=$MDTU',
    RFTU=&CTTU$CTTU,
    CTBSN=' FILESTAT=UNCAT,DVC=$DVBS,MD=$MDBS',
    RFBS=&CTBS$CTBS,
    CTLIN=' FILESTAT=UNCAT,DVC=$DVLI,MD=$MDLI',
    RFLI=&CTLI$CTLI,
    CTBUN=' FILESTAT=UNCAT,DVC=$DVBU,MD=$MDBU',
    RFBU=&CTBU$CTBU,
    CTAJN=' FILESTAT=UNCAT,DVC=$DVAJ,MD=$MDAJ',
    RFAJ=&CTAJ$CTAJ,
    RFTM=' DVC=$DVTM,MD=$MDTM',
    CTGENY='/G+1',CTGENTY='/G+1',CTGENDN='G1',
    RFGEN=&CTGEN$MDSVPC$CTBU;
CR   IF=*PCYS,
    OF=(TMBPCYS,TEMPRY,&RFTM,END=PASS),
    OUTDEF=(CISZ=2048,RECSZ=80,RECFORM=FB);
COMM '*** ALLOC MD ***';
IV PBINALMD ($NMLI.$LIBJCL,&RFLI);
COMM '*** REPYSM ***';
STEP REPYSM,FILE=($NMLI.$LIBLM,&RFLI),REPEAT,DUMP=DATA;
    SZ 130;
    ASG PAC7MB,TMBPCYS,TEMPRY,&RFTM,END=PASS;
    ASG PAC7MD,$NMBU.$ROOT$FILEMD,&RFBU;
    ASG PAC7MC,&PAC7PC;
    ASG PAC7PC,&PAC7PC!!&RFGEN,&RFBU;
    ASG PAC7EI,SYS.OUT;
ESTP;
JUMP ERR,SW20,EQ,1;
COMM '*** SHIFT PAC7PC ***';
JUMP SHFT$MDSVPC$CTBU;
SHFTTY:SHFTDY;
SHIFT &PAC7PC;
JUMP SHFTE;
SHFTDN:
FILMODIF FILE=(&PAC7PC,&RFBU) NEWNAME=&PAC7PC!!G2;
FILMODIF FILE=(&PAC7PC!!G1,&RFBU) NEWNAME=&PAC7PC;
FILMODIF FILE=(&PAC7PC!!G2,&RFBU) NEWNAME=&PAC7PC!!G1;
JUMP SHFTE;
SHFTTN:
SHFTE:
JUMP END;
ERR:
SEND ' PBINPCYS - ABNORMAL END OF RUN ';
LET SEV 3;
END:

```

	PAGE	29
YSM-METHODOLOGY RETRIEVAL		5
PJ-FILE RETRIEVAL	(PJYS)	3
DESCRIPTION OF STEPS	(PJYS)	1

### 5.3. *PJ-FILE RETRIEVAL* (PJYS)

#### 5.3.1. DESCRIPTION OF STEPS (PJYS)

YSM RETRIEVAL: REJYSM

.Permanent input files:

-Backup file  
PAC7MJ : EFN=\$NMBU.\$ROOT\$FILEPJ  
-List of libraries modified in the  
PCYS retrieved-PC file  
PAC7MD : EFN=\$NMBU.\$ROOT\$FILEMD

.Output files:

-Backup file  
PAC7PJ : EFN=\$NMBU.\$ROOT\$FILEPJ/G+1

YSM-METHODOLOGY RETRIEVAL  
PJ-FILE RETRIEVAL  
EXECUTION JCL

(PJYS)  
(PJYS)

PAGE

30

5  
3  
2

### 5.3.2. EXECUTION JCL (PJYS)

```
COMM 'VISUALAGE PACBASE 2.0';
MVL PAC7PJ=' $NMBU.$ROOT$FILEPJ',
    SIZEAN=20, SIZEAR=30,
    CTTUN=' FILESTAT=UNCAT, DVC=$DVTU, MD=$MDTU',
    RFTU=&CTTU$CTTU,
    CTBSN=' FILESTAT=UNCAT, DVC=$DVBS, MD=$MDBS',
    RFBS=&CTBS$CTBS,
    CTLIN=' FILESTAT=UNCAT, DVC=$DVLI, MD=$MDLI',
    RFLI=&CTLI$CTLI,
    CTBUN=' FILESTAT=UNCAT, DVC=$DVBU, MD=$MDBU',
    RFBU=&CTBU$CTBU,
    CTAJN=' FILESTAT=UNCAT, DVC=$DVAJ, MD=$MDAJ',
    RFAJ=&CTAJ$CTAJ,
    RFTM=' DVC=$DVTM, MD=$MDTM',
    CTGENDY='/G+1', CTGENTY='/G+1', CTGENDN='G1',
    RFGEN=&CTGEN$MDSVPJ$CTBU;
COMM '*** REJYSM ***';
STEP REJYSM, FILE=( $NMLI.$LIBLM, &RFLI), REPEAT, DUMP=DATA;
SZ 130;
ASG PAC7MJ, &PAC7PJ;
ASG PAC7MD, $NMBU.$ROOT$FILEMD, &RFBU;
ASG PAC7PJ, &PAC7PJ!&RFGEN, &RFBU;
ASG PAC7EI, SYS.OUT;

ESTP;
JUMP ERR, SW20, EQ, 1;
COMM '*** SHIFT PAC7PJ ***';
JUMP SHFT$MDSVPJ$CTBU;
SHFTTY: SHFTDY;
SHIFT &PAC7PJ;
JUMP SHFTE;
SHFTDN:
FILMODIF FILE=(&PAC7PJ, &RFBU) NEWNAME=&PAC7PJ!!G2;
FILMODIF FILE=(&PAC7PJ!!G1, &RFBU) NEWNAME=&PAC7PJ;
FILMODIF FILE=(&PAC7PJ!!G2, &RFBU) NEWNAME=&PAC7PJ!!G1;
JUMP SHFTE;
SHFTTN:
SHFTE:
JUMP END;
ERR:
SEND ' PBINPJYS - ABNORMAL END OF RUN ';
LET SEV 3;
END;
```

YSM-METHODOLOGY RETRIEVAL  
 USER-ENTITY RETRIEVAL  
 DESCRIPTION OF STEPS

(RTYS)  
 (RTYS)

5  
 4  
 1

#### 5.4. USER-ENTITY RETRIEVAL

(RTYS)

##### 5.4.1. DESCRIPTION OF STEPS

(RTYS)

###### RETRIEVAL OF USER ENTITIES: REPAFL

```
.Permanent input files:
-Data file
  PAC7AR : EFN=$NMTU.$ROOT$FILEAR
-Index file
  PAC7AN : EFN=$NMTU.$ROOT$FILEAN
-Error message file
  PAC7AE : EFN=$NMTU.$ROOT$ROOTAE

.Transaction file:
-User input
  PAC7MB : EFN=TMBERTYS

.Input/Output file:
-PAF work file
  SYSPAF : EFN=&SYSPAF&USER

.Output file:
-Update transactions
  PAC7MV : DSN=$NMLI.$LIBSU..MBUPDT_RTYS&USER
```

YSM-METHODOLOGY RETRIEVAL  
 USER-ENTITY RETRIEVAL  
 EXECUTION JCL

(RTYS)  
 (RTYS)

5  
 4  
 2

#### 5.4.2. EXECUTION JCL (RTYS)

```

COMM 'VISUALAGE PACBASE 2.0';
MVL SYSPAF=' $NMTU.$ROOT$FILEPA',USER=' $USER',
    CTUN=' FILESTAT=UNCAT,DVC=$DVTU,MD=$MDTU',
    RFTU=&CTTU$CTTU,
    CTBSN=' FILESTAT=UNCAT,DVC=$DVBS,MD=$MDBS',
    RFBS=&CTBS$CTBS,
    CTLIN=' FILESTAT=UNCAT,DVC=$DVLI,MD=$MDLI',
    RFLI=&CTLI$CTLI,
    CTBUN=' FILESTAT=UNCAT,DVC=$DVBU,MD=$MDBU',
    RFBU=&CTBU$CTBU,
    CTAJN=' FILESTAT=UNCAT,DVC=$DVAJ,MD=$MDAJ',
    RFAJ=&CTAJ$CTAJ,
    RFTM=' DVC=$DVTM,MD=$MDTM';
CR   IF=*RTYS,
    OF=(TMBRTYS,TEMPRY,&RFTM,END=PASS),
    OUTDEF=(CISZ=2048,RECSZ=80,RECFORM=FB);
COMM '*** ALLOC PAF ***';
IV  PBINALPA,($NMLI.$LIBJCL,&RFLI),$LIST,
    VL=(USER=&USER,SYSPAF=&SYSPAF,TYPE='BT');
COMM '*** REPAFL ***';
STEP REPAFL,FILE=($NMLI.$LIBLM,&RFLI),DUMP=DATA;
    SZ 120;
    ASG PAC7AE,$NMTU.$ROOT$ROOTAE,&RFTU,
        ACC=READ,SHARE=MONITOR;
    DEF PAC7AE,READLOCK=STAT;
    ASG PAC7AN,$NMTU.$ROOT$FILEAN,&RFTU,
        ACC=READ,SHARE=MONITOR;
    DEF PAC7AN,NBBUF=1,READLOCK=STAT;
    ASG PAC7AR,$NMTU.$ROOT$FILEAR,&RFTU,
        ACC=READ,SHARE=MONITOR;
    DEF PAC7AR,NBBUF=1,READLOCK=STAT;
    ASG PAC7MB,TMBRTYS,TEMPRY,&RFTM,END=PASS;
    ASG SYSPAF,&SYSPAF&USER,&RFTU;
    ASG PAC7MV,TPAC7MV,TEMPRY,&RFTM,END=PASS;
    DEF PAC7MV,NBBUF=1;
    ASG PAC7EI,SYS.OUT;
ESTP;
JUMP ERR,SW20,EQ,1;
LMN SL INFILE=(TPAC7MV,TEMPRY,&RFTM),
    LIB=($NMLI.$LIBSU,&RFLI),
    COM='MV INFILE:MBUPDT_RTYS'&USER',INFORM=SARF,
        TYPE=DAT,NUMBER=(1,1),REPLACE;';
JUMP ERR,SEV,GE,3;
JUMP END;
ERR:
SEND 'DSINRTYS - ABNORMAL END OF RUN';
LET SEV 3;
END:

```