



VisualAge Pacbase 2.5

**PACTABLES 2.5 – IBM CICS/OS/MVS
OPERATIONS MANUAL**

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1. FOREWORD

FOREWORD

The purpose of this manual is to provide the reader with information related to the installation and operation of the Pactables Release 2.5 function.

This manual contains four sections:

1. General presentation of the Pactables function

Chapter 1 - Pactables Components

Chapter 2 - Environment

2. Batch operation procedures

Chapters 4-18: Batch Procedures

3. Retrieval from previous releases of the Pactables function

Chapter 19 - 7.x Table Retrieval

Chapter 20 - 8.x or 1.2 Table Retrieval

4. Installation

Chapter 22 - Installation

For a detailed description of each chapter, refer to the Table of Contents.

The index at the end of the manual will help you find information on installation and running of the system.

HOW TO USE THIS MANUAL FOR SYSTEM INSTALLATION

After reading the introductory chapters to the system: INTRODUCTION, COMPONENTS, and ENVIRONMENT, go directly to the INSTALLATION chapter.

If a previous Pactables release is already installed on the site:

- . The 2.5 Release is different from any former Pactables release regarding installation parameters. The test case provided on the installation tape must be executed.
- . Once the installation is complete, read the chapter about the retrieval and follow the instructions carefully in order to ensure a thorough compatibility of existing data from the former release.

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2. PACTABLES COMPONENTS

2.1. INTRODUCTION

INTRODUCTION

The purpose of the Pactables function is to process a certain amount of permanent data whether on-line or in batch mode (see the Pactables Reference Manual).

Two types of resources are therefore necessary:

- . Libraries which store the programs making up the Pactables function, and its parameters,
- . Permanent files, which contain the data processed by those programs. These files can be divided into two categories:
 - 'System' files, which remain stable during the use of the Pactables function,
 - 'Evolving' files, which are handled by the users, and whose volumes vary according to the types of updates performed.

NOTE:

The installation of the Pactables function is quite independent from that of other VisualAge Pacbase functions.

The implementation of the Pactables function requires data which must be defined and described with the VisualAge Pacbase Specifications Dictionary function. The Extraction Procedure required to operate the Pactables function is described in the VisualAge Pacbase 2.5 Operations Manual.

Options of the Pactables function are coded as follows:

- . Dispatched Table Management : DTM
- . Security System Interface : SEC (only with IBM MVS)

2.2. THE ON-LINE PROGRAM LIBRARY

THE ON-LINE PROGRAM LIBRARY (MTR8)

Its size is approximately 200 blocks of 6,144 bytes. It contains the following programs :

```
+-----+
! CODE ! OPERATION AND MEANING !
+-----+
! FT00 ! Tables extraction (TUF-TP MODULE) !
! FT90 ! User Interface (TUF-TP MODULE) !
! P500 ! Enter, FT or 'clear' : initial screen !
! P510 ! C1: read-write access to mono-item !
!      ! with CR, MO, DE for updating !
! P512 ! C1: read-write access to mono-item !
!      ! with CR, MO, DE for updating (V.2) !
! P520 ! C2: read-only access to multi-item !
!      ! with DE for an item deletion !
! P522 ! C2: read-only access to multi-item !
!      ! with DE for an item deletion (V.2) !
! P530 ! LT : list of tables !
! P540 ! LS : list of sub-schemas/sub-systems !
! P550 ! LD : list of documentation !
! P560 ! C3 : read-only access to item hist. acc.!
! P570 ! HELP screen !
! P580 ! LH : list of historical accounts !
! P590 ! LJ, LE : print requests !
! P599 ! Display system errors !
! P600 ! Parameter & password updating !
! P610 ! User code updating !
! P620 ! Access authorization updating !
! P820 ! Optimized generalized access module !
! P920 ! User generalized access module !
! PLNK ! Pactables access via user-program module!
! SECT ! Security systems interface sub-program !
!      ! !
+-----+
```

NOTE:

Codes of programs and maps are given without the 2-character suffix which is made up of the two first characters of the transaction code used to access the Pactables function (this does not apply to the PACSECT sub-program).

IMPORTANT

Two additional programs (P512 and P522) are supplied with Pactables Release 2.0.

During updates, the P510 and P520 programs may call the user check routines in order to perform additional checks. As a default, the generation option of these routines is without the century management.

From Rel. 2.0, if the user check routines are generated with the century management option, the two new programs (P512 and P522) must be renamed and used instead of P510 and P520.

In all cases, ALL user check routines should be generated with the same option.

2.3. THE BATCH PROGRAM LIBRARY

THE BATCH PROGRAM LIBRARY (MBR8)

Size: approximately 200 blocks of 6,144 bytes.

! CODE	! PROC.	! OPT.	! MEANING	!
! PTU001	!	!	! Transaction file copy	!
! PTAINI	! INTA	!	! File initialization	!
! PTARSD	! RSTA	!	! Table restoration	!
! PTARSV	! -	!	! - -	!
! PTARSG	! -	!	! - -	!
! PTARTG	! R2TA	!	! Retrieval 7.2 tables	!
! PTAR20	! RTTA	!	! Retrieval 8.02, 1.2 tables ->2.5!	!
! -	! R2TA	!	!	!
! -	! R3TA	!	! Retrieval 7.3 tables	!
! PTASVD	! SVTA	!	! Table backup	!
! PTASVV	! -	!	! - -	!
! PTASVG	! -	!	! - -	!
! -	! RETA	!	! Table reorganization	!
! PTAU80	! TUTA	!	! Direct consultation of tables	!
! PTAXVD	! R2TA	!	! - - -	!
! -	! R3TA	!	! - - -	!
! PTAXVV	! R2TA	!	! - - -	!
! -	! R3TA	!	! - - -	!
! PTAXVG	! R2TA	!	! - - -	!
! -	! R3TA	!	! - - -	!
! PTA100	! PMTA	!	! Parameter update	!
! PTA120	! -	!	! - -	!
! PTA150	! EXTA	!	! Table extraction	!
! PTA160	! -	!	! - -	!
! PTA250	! GETT	!	! Table generation	!
! PTA290	! -	!	! - /Lists -	!
! -	! LDTA	!	! - /Lists -	!
! PTA300	! UPTA	!	! Table update	!
! PTA302	! -	!	! - -	!
! PTA310	! IMTA	!	! Table import	!
! PTA312	! -	!	! - -	!
! PTA320	! PRTA	!	! Table printout	!
! PTA350	! UPTA	!	! - -	!
! -	! IMTA	!	! - -	!
! -	! PRTA	!	! - -	!
! PTA360	! UPTA	!	! - -	!
! -	! IMTA	!	! - -	!
! -	! PRTA	!	! - -	!

! CODE	! PROC.	! OPT.	! MEANING
! PTA400	! RETA	!	! Table reorganization
! PTA410	! -	!	! -
! PTA420	! -	!	! -
! PTA430	! -	!	! -
! PTAD05	! CDT1	! DTM	! Table-description comparison
! PTAD10	! -	!	! -
! PTAD20	! CDT2	!	! -
! PTAV10	! CVTA	!	! Table update
! PTAV20	! -	!	! -
! PTA800	!	!	! Optimized access module
! PTA900	!	!	! Generalized access module
! PACSECB	!	! SEC	! Security systems sub-program
! PTATCD	! TCTA	!	! TD file sort
! PTATCG	! -	!	! TG file sort
! PTATCV	! -	!	! TV file sort
! PTATC1	! -	!	! TC partitioning according to the
!	!	!	! type of file
! PTATC2	! -	!	! Sorted TC file rebuilding

IMPORTANT NOTE:

Two other programs (PTA302 and PTA312) are supplied with version 2.0 and higher versions.

During updates, the PTA302 and PTA312 programs may call the user check routines in order to perform additional checks. The default generation option of these routines is 'without century management'.

From the 2.0 version, if the user check routines are generated with the century-management option, the two new programs, PTA302 and PTA312, must be renamed and used respectively in the UPTA and IMTA procedures instead of the PTA300 and PTA310 programs.

In all cases, ALL the user check routines should be generated with the same century-management option.

THE LIBRARY OF COBOL/VS SUB-PROGRAMS

Its required size is about 50 blocks of 6,144 bytes. It contains the following programs:

! CODE	! MEANING	!
!.....!..... Batch sub-programs		
! PTA800	! Optimized access module	!
! PTA900	! Generalized access module	!
! PACSECB	! Security System sub-program	!
!.....!..... On-line sub-programs		
! P820	! Optimized access module	!
! P920	! User generalized access module	!
! PSECT	! Security Systems Interface sub-program	!

These sub-programs must be used with programs developed in Cobol/VS.

SECURITY SYSTEMS INTERFACE EXTENSION (SEC)

The optional sub-program PACSECB interfaces the Pactables function with the site's security system.

This sub-program is found on the tape in the batch load-module library (PACT.MBR8). It must be installed in an authorized library. (See in Chapter INSTALLATION, subchapter 'Installation Process', the section about the '\$prfj.PGM' job.)

Refer to the VISUALAGE PACBASE-SECURITY SYSTEMS INTERFACE Reference Manual for details on this extension operations.

2.4. THE PACBASE MACROS-STRUCTURES LIBRARY

VA PAC MACRO-STRUCTURES LIBRARY

The Macro-structures are the following ones:

! CODE	! MEANING	!
! AATUFA	! Description of the table data element	!
! AATUFL	! 'LT' or 'LH' list	!
! AATUFS	! 'LS' or 'LC' list	!
! AATUFX	! List of items	!

These macro-structures are used in user on-line application programs using the TUF-TP facility.

They are used to add the description of communication areas which are necessary to the call of xxFT90 sub-program in the TUF-TP facility.

These Macro-structures are supplied as VA Pac updating transactions. They must be loaded in the Va Pac library used for the development of user transactions by taking the transactions of VA Pac UPDT procedure in input.

2.5. *THE PARAMETER LIBRARY*

THE PARAMETER LIBRARY (SY)

Its size is approximately 4 blocks of 6,080 bytes.

It contains:

. The DEFINES of VSAM files:

The DELETE/DEFINE of each VSAM file is named DFxx00ff (where xx00ff = file suffix).

Information on the catalog in use, disks, size, etc., is initialized according to the initial parameters of the installation and can be modified by the System Administrator, if needed.

. The VERIFYs of VSAM files:

Under the name VERIFF, one finds the VERIFY requests applied to the Pactables files.

NOTE:

Any modification of the file characteristics must be done in the parameter library.

2.6. SYSTEM FILES

THE 'SYSTEM' FILES

They represent the system itself. They are not modified by daily handling, and they must be re-loaded if the system has to be re-installed.

- . The library of batch load modules MBR8, described above:

```
.Size      : 200 blocks  
.Blksize   : 6,144
```

- . The library of on-line load modules MTR8, described above:

```
.Size      : 200 blocks  
.Blksize   : 6,144
```

- . The library of parameters (PDS) SY, described above:

```
.Size      : 3 blocks  
.Blksize   : 6,080
```

- . The file containing the error messages and the auto- matic documentation of the Pactables function: TE.

```
.Size          : Approximately 900 records  
.Organization : VSAM-KSDS  
.Recsize      : 90  
.Key          : 17 (position 0)  
.Utilization  : Batch/On-line
```

2.7. EVOLVING FILES

EVOLVING FILES

They contain the user's data. They are processed by the system in either on-line or batch mode.

The first two make up the actual Tables.

.TABLE-DESCRIPTION FILE: TD

.Organization : VSAM-KSDS
.Resize : 240
.CI size : 2,048
.Key : 21 (position 0)
.Utilization : Batch/On-line
.Space : 8 records per C.I. of 1,024

.TABLE-CONTENTS FILE: TV

.Organization : VSAM-KSDS
.Resize : 80 to 1,100
.CI size : 2,048
.Key : 35 (position 4)
.Utilization : Batch/On-line
.Space : Varies with the table size.

The third file contains the user parameters required for the system operations. It is managed through a specific batch procedure:

.USER PARAMETERS FILE: TG

.Organization : VSAM-KSDS
.Resize : 85
.CI size : 2,048
.Key : 22 (position 0)
.Utilization : Batch/On-line
.Space : 24 records per C.I. of 2,048.

The TG file includes:

- User codes and corresponding access authorizations,
- Table printing user JCL.

The fourth file constitutes the backup of the user Table files described above.

.BACKUP: TC

.Organization : Sequential generation file

.DSNAME : &INDUN..&ROOTT.00TC(n)
.DCB : RECFM=VB,LRECL=1067,BLKSIZE=10674
.Utilization : Batch

A fifth file used by the TUF-TP facility enables the transitory storage of data extracted from Pactables, data used to update Pactables and updating error messages.

.Working file (TB) .Organization : VSAM-KSDS
.Recsize : 80 to 1140
.CI size : 1,024
.key : 63 (position 3)
.Utilization : TP
.Space : depending on the table size

STANDARD LIMITATIONS

Maximum length for a table item : 999 characters
Maximum length for the table key : 20 characters
Maximum number of Data Elements in a table : 40
Number of table items per table : Unlimited

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3. ENVIRONMENT

3.1. INTRODUCTION

INTRODUCTION

It is assumed that the site where Pactables is installed provides the environment and the resources necessary to run the system.

The purpose of this chapter is to define this environment, and thus help determine how much disk space is necessary.

File sizes are specified in Chapter ENVIRONMENT of the VisualAge Pacbase INSTALLATION AND ENVIRONMENT Operations Manual.

3.2. CICS ENVIRONMENT

CICS ENVIRONMENT

The monitor used is CICS ESA, version 3.1 or later.

It must include the SPOOL=YES option for running batch jobs (LE or LJ choice).

The Description (TD), Tables (TV), User parameter (TG) files and the TUF-TP working file (TB) are updated on-line and must be protected by option allowing for Dynamic Backout.

It is recommended to use the CICS 'EMERGENCY RESTART' option.

The size of the COMMAREA used for Pactables is 8Kb.

The TUF-TP facility needs a specific COMMONAREA of 30K.

BASICS ON THE PACTABLES OPERATIONS

The general characteristics of Pactables operations are:

- . A transaction code is used to enter the system. The branchings to the different programs are done through 'RETURN TRANSID'.

A transaction code and a program are associated to each screen (example: xxP510 ensures the update and the transaction code is xx01 for a mono-item screen).

- . When an error is detected by the system a 'MAP ABEND' is displayed. The display program of this map xxP599 is called by XCTL.

UPPERCASE/LOWERCASE PROCESSING

The Pactables function automatically changes lowercase into uppercase on screens with the UCTRAN option at the TCT level for fields requiring uppercase, i.e.:

- . User code & associated password,
- . Operation code.

3.3. ACCESS METHODS (VSAM)

ACCESS METHODS (VSAM)

The Pactables function manages its files using the VSAM-KSDS indexed access method without secondary index.

Files are protected against concurrent read-write accesses (SHARE OPTION 2). In particular, the Pactables function protects itself against simultaneous updates in both batch and on-line modes by using this share option.

Each batch procedure includes a DELETE/DEFINE step in case of file reloading. As a result, files need not include the REUSE default option and, consequently, may be allocated using either the UNIQUE option or the SUB-ALLOCATION option.

3.4. BATCH ENVIRONMENT

BATCH ENVIRONMENT

In batch mode, the system uses standard functions of the operating system and the VSAM access method.

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

4. THE BATCH PROCEDURES

4.1. INTRODUCTION

INTRODUCTION TO THE BATCH PROCEDURES

Batch processing with Pactables is divided into various procedures. The procedures likely to be used are described in the following chapters with their specific execution conditions.

For each procedure, there is:

- . A general presentation including:
 - the introduction,
 - the execution condition(s),
 - the action(s) to be taken in case of abnormal execution.
- . A description of user input, processing executed, and results, plus - if needed - specific recommendations.
- . A description of steps:
 - symbolics or parameters used,
 - list of the files used (temporary or permanent),
 - possible return codes for each step.
- . JCL lines.

4.2. CLASSIFICATION OF PROCEDURES

CLASSIFICATION OF PROCEDURES

The batch procedures are the following:

- .Pactables file initialization (INTA)
- .Table generation (GETT)
- .Table Update (UPTA)
- .Table printing (PRTA)
- .Table importation (IMTA)
- .Table reorganization (RETA)
- .Table backup (SVTA)
- .Pactables database migration (TCTA)
- .Table restoration (RSTA)
- .Printing of table description lists (LDTA)
- .Update of user parameters (PMTA)
- .Extraction of data (EXTA)
- .Direct reading of tables (TUTA)

With the Dispatched Table Management option (DTM):

- .Table description comparison (CDT1, CDT2)
- .Table extraction for update (CVTA).

For retrieval of previous releases:

.Retrieval of 7.2 Pactables files (R2TA)

.Retrieval of 7.3 Pactables files (R3TA)

.Retrieval of the 8.xx or 1.2 backup file (RTTA).

NOTE

Pactables does not provide a journal of update transactions.

4.3. ABNORMAL EXECUTIONS

ABNORMAL EXECUTIONS

A Batch program execution may terminate abnormally. For example, input-output errors on the system files or on the database cause a forced abnormal end with an USER ABEND (code 12), accompanied by a message on the SYSOUT file.

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

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

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

The reader will find in the charts below the most common values for the status and type of operation.

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

When this message is absent, and the type of ABEND generated directly reports a problem in the VisualAge Pacbase system programs, it will be necessary to contact the VisualAge Pacbase technical team at IBM. Be sure to KEEP ALL LISTINGS that may be necessary to analyze the problem.

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TABLE INITIALIZATION (INTA)

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5. TABLE INITIALIZATION (INTA)

5.1. INTRODUCTION

INTA: TABLE INITIALIZATION

INTRODUCTION

This procedure initializes the table description and contents files of the Pactables Database.

NOTE:

The purpose of this procedure is to physically initialize new files. It may not be used to initialize new tables in already defined files (refer to chapter 'TABLE GENERATION' for more details on the Table initialization procedure).

5.2. USER INPUT

USER INPUT

! POS.!	! LEN.!	! VALUE!	! MEANING!
! 1 !	! 36 !	!	! Installation label !
! 37 !	! 1 !	!	! Language version parameter: !
! !	! !	! E !	! English !
! !	! !	! F !	! French !
! 38 !	! 1 !	!	! Machine date inversion !
! !	! !	!	! Only with IBM-DOS and BULL DPS7: !
! !	! !	! blank !	! If MM/DD/CCYY !
! !	! !	! I !	! If DD/MM/CCYY !
! 39 !	! 12 !	!	! Function keys assignments !
! 51 !	! 4 !	! cccc !	! Security system class !
! 55 !	! 1 !	!	! Security system type !
! !	! !	! blank !	! No security system !
! !	! !	! R !	! RACF !
! !	! !	! S !	! TOP SECRET !
! !	! !	!	! !
! 56 !	! 2 !	! nn !	! Number of lines per printout page !
! 58 !	! 1 !	!	! Type of resource control !
! !	! !	! blank !	! Def tables resource security system !
! !	! !	! P !	! Def of resources in VA Pac !
! 59 !	! 1 !	!	! Lock of user's code !
! !	! !	! blank !	! Other user's code authorized !
! !	! !	! N !	! Other user's code unauthorized !

5.3. DESCRIPTION OF STEPS

INTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

DEFINITION OF FILES: IDCAMS

-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

INITIALIZATION OF FILES: PTAINI

.Input file
PAC7MD

.Output files:
-Table Descriptions File
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table Contents File
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Output report:
-Initialization review
PAC7ED

5.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*****
//*          ---- TABLE INITIALIZATION ---- *
//*****
//$RADP.INTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
//      INDUV='$INDUV',          PACTABLES FILE INDEX *
//      INDSN='$INDSN',          NON-VSAM FILE INDEX *
//*:    VSAMCAT='$VCAT',        USER VSAM CATALOG *
//      STEPLIB='$MODB',        LOAD-MODULE LIBRARY *
//      UWK=$UWK,              WORK UNIT *
//      SPAMB='(TRK,(1,1),RLSE)', MB FILE SPACE *
//      OUT=$OUT,              OUTPUT CLASS *
//      OUTL=$OUT              REPORT OUTPUT CLASS *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&INTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//DEFINE EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TV),
//      DISP=SHR
//PTAINI EXEC PGM=PTAINI
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7MD DD DSN=&&INTAMB,DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7ED DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT

```

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TABLE GENERATION (GETT)

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6. TABLE GENERATION (GETT)

6.1. INTRODUCTION

GETT: TABLE GENERATION

INTRODUCTION

This procedure updates the Table-Descriptions file using the table descriptions extracted from the VisualAge Pacbase Database, and initializes the generated tables in the Table-Contents file.

EXECUTION CONDITION

This procedure must be preceded by the Extraction procedure of the VisualAge Pacbase system (GETD or GETA), whose output file contains the extracted table descriptions used in input by the GETT procedure.

GETT updates the TD and TV files. These must therefore be closed to on-line use except if the material in use allows Batch/TP concurrency.

NOTE: about the platforms where the disk space allocated to the files is fixed:

When a very large update is run (in terms of the number of transactions), it may be necessary to run a backup and a reload in order to increase or physically reorganize the files and make all the initially provided free space available.

USER INPUT

Result of GETD or GETA extraction.

6.2. DESCRIPTION OF STEPS

GETT: DESCRIPTION OF STEPS

VERIFICATION OF VSAM FILES: IDCAMS

UPDATE OF TABLE FILES: PTA250

.Permanent input-output files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input transaction file (GETD or GETA output):
-Update transactions
PAC7MD : DSN=&MD

.Output file
PAC7TK : DSN=&&DE

.Output report:
-Input/output errors on files
PAC7ET

.Sort files:
SORTWK01, SORTWK02, SORTWK03

PRINTING OF DESCRIPTIONS: PTA290

.Permanent input file:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Transaction input file:
-Print request
PAC7TE : DSN=&&DE

.Output report:
-Printout of descriptions
PAC7ID

6.3. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*****
//*          --- TABLE GENERATION --- *
//*****
//$RADP.GETT PROC ROOTT=$ROOTT,    PACTABLES SYSTEM ROOT *
//      INDUV=$INDUV',            PACTABLES FILE'S INDEX *
//      INDSV=$INDSV',            INDEX OF VSAM SYSTEM FILES *
//      INDSN=$INDSN',            INDEX OF NON-VSAM SYSTEM FILES *
//      MD='&&MD',                GENERATED DESCRIPTION DSNAME *
//      UNITS=$UNITUN,            GENERATED DESCRIPTION UNIT *
//      VOLS='SER=$VOLUN',        GENERATED DESCRIPTION VOLUME *
//*:    VSAMCAT='$VCAT',          USER VSAM CATALOG *
//*:    SYSTCAT='$SCAT',          SYSTEM VSAM CATALOG *
//      STEPLIB='$MODB',          LIBRARY OF LOAD-MODULES *
//      SORTLIB='$BIBT',          SORT LIBRARY *
//      OUT=$OUT,                 UTILITY AND ERROR OUTPUT CLASS *
//      OUTL=$OUT,                OUTPUT CLASS OF REPORTS *
//      UWK=$UWK,                 WORK UNIT *
//      CYL=(3,1)',               SORTWORK SPACE *
//      SPAWK=(TRK,(50,10),RLSE)' WORK FILE SPACE *
//*****
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:          DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//          DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//          DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//          DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//          DISP=SHR
//          DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//          DISP=SHR
//          DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//          DISP=SHR
//PTA250 EXEC PGM=PTA250
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//          DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//          DISP=SHR
//PAC7MD DD DSN=&MD,DISP=OLD,
//          VOL=&VOLS,UNIT=&UNITS
//PAC7ET DD SYSOUT=&OUTL
//PAC7TK DD DSN=&DE,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSOUX DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTA290 EXEC PGM=PTA290
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//          DISP=SHR

```

TABLE GENERATION
EXECUTION JCL

(GETT)

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```
//PAC7TE DD DSN=&&DE,DISP=(OLD,PASS)  
//PAC7ID DD SYSOUT=&OUTL  
//SYSUDUMP DD SYSOUT=&OUT
```

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TABLE UPDATE (UPTA)

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7. TABLE UPDATE (UPTA)

7.1. INTRODUCTION

UPTA: TABLE UPDATING

INTRODUCTION

This procedure executes a batch update of the tables, and prints the updated tables.

EXECUTION CONDITION

The TV and TD Table files being updated by this procedure, access to on-line use must be closed except if the material in use allows Batch/TP concurrency.

NOTE: about the platforms where the disk space allocated to the files is fixed:

When a very large update is run (in terms of the number of transaction), it may be necessary to run a backup and a reload in order to increase or physically reorganize the TV file to make all the initially provided free space available.

IMPORTANT NOTE:

An alternative version of the update program, PTA302, is shipped with Pactables Rel. 2.0.

During updates, the PTA300 program may call the user check routines in order to perform additional checks. The default generation option for these routines is 'without century management'.

From Release 2.0 onwards, the user check routines are generated with the century-management option. The new program, PTA302, must therefore be renamed and used instead of the PTA300 program.

In all cases, ALL the user check routines should be generated with the same century-management option.

7.2. USER INPUT

USER INPUT

. One '*'-type line per user:

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

. One 'A'-type line per table to update:

!Pos.!	Len.!	Value	! Meaning
! 2 !	! 1 !	! 'A'	! Line code
! 3 !	! 6 !	! tttttt	! Table number
! 9 !	! 8 !	! DDMCCYY	! Historical account date
! 17 !	! 1 !		! Not used
! 18 !	! 1 !		! Sub-system number
! !	! !	! ' '	! No sub-system specified
! !	! !	! 1 to 0	! Sub-system number
! 19 !	! 1 !		! Data delimiter
! !	! !	! ' '	! Considered as '/' be default

. 'V'-type lines to update table data:

!Pos.!	Len.!	Value	! Meaning
! 1 !	! 1 !		! Action code
! !	! !	! 'C'	! Creation
! !	! !	! 'M'	! Modification
! !	! !	! 'D'	! Deletion
! 2 !	! 1 !	! 'V'	! Line code
! 3 !	! 1 !		! Continuation line
! !	! !	! ' '	! First data line
! !	! !	! '-'	! Item data continuation
! 4 !	! 77 !		! Table data separated by the
! !	! !		! delimiter indicated on the 'A'-type!
! !	! !		! line

7.3. DESCRIPTION OF STEPS

UPTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-User parameters file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Permanent input-output file:
-Table contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input transaction file:
-Update transactions
PAC7MS : DSN=&&UPTAMB

.Output file:
-Print requests
PAC7DE : DSN=&&TABLE LRECL=80

.Output report:
-Transaction review
PAC7ET

.Work file:
-Prepared transactions
PAC7MT : DSN=&&MVT300

FORMATTING FOR PRINTING: PTA350

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input transaction file:
-Print request
PAC7DE : DSN=&&TABLE

.Output file:
-Print file
PAC7ET : DSN=&&SPOOL

.Output report:
-Statistics on printing
PAC7EX

PRINTING OF TABLES: PTA360

.Permanent input file:
-Table-description file

TABLE UPDATE
DESCRIPTION OF STEPS

(UPTA)

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3

PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input Transaction file:

-Print file

PAC7SP : DSN=&&SPOOL

.Output report:

-Printing of tables

PAC7ET

.Sort files:

SORTWK01, SORTWK02, SORTWK03.

7.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//* --- TABLE UPDATE --- *
//*****
//$RADP.UPTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
//      INDUV='$INDUV',      PACTABLES FILES' INDEX *
//      INDSV='$INDSV',      VA PAC SYSTEM FILES' INDEX *
//      INDSN='$INDSN',      NON-VSAM FILES' INDEX *
//*:    VSAMCAT='$VCAT',      USER VSAM CATALOG *
//*:    SYSTCAT='$SCAT',      SYSTEM VSAM CATALOG *
//      STEPLIB='$MODB',      LOAD-MODULE LIBRARY *
//      SORTLIB='$BIBT',      SORT LIBRARY *
//      OUT=$OUT,             UTILITY AND ERROR OUTPUT CLASS *
//      OUTL=$OUT,           REPORT OUTPUT CLASS *
//      UWK=$UWK,            WORK UNIT *
//      CYL=3,               SORTWORK SPACE *
//      SPAWK='(TRK,(50,10),RLSE)', WORK FILE SPACE *
//      SPAED='(TRK,(150,30),RLSE)', PRINT FILE SPACE *
//      SPAMB='(TRK,(5,1),RLSE)' REQUEST FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&UPTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA300 EXEC PGM=PTA300
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7MS DD DSN=&&UPTAMB,DISP=(OLD,PASS)
//PAC7DE DD DSN=&&TABLE,DISP=(NEW,PASS),UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//      SPACE=&SPAWK

```

```
//PAC7ET DD SYSOUT=&OUTL
//PAC7MT DD DSN=&&MVT300,DISP=(NEW,DELETE),UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=95,BLKSIZE=6175),
//      SPACE=&SPAWK
//SYSUDUMP DD SYSOUT=&OUT
//PTA350 EXEC PGM=PTA350
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7DE DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET DD DSN=&&SPOOL,DISP=(NEW,PASS),UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
//      SPACE=&SPAED
//PAC7EX DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT
//PTA360 EXEC PGM=PTA360
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)
//PAC7EY DD SYSOUT=&OUTL
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
```

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TABLE PRINTING (PRTA)

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8. TABLE PRINTING (PRTA)

8.1. INTRODUCTION

PRTA: TABLE PRINTING

INTRODUCTION

This procedure performs a batch print of tables.

EXECUTION CONDITION

This procedure reads the Pactables files; it can be executed even if on-line access remains open.

NOTE:

Users may also submit the PRTA procedure on-line; refer to the Pactables Reference Manual for more details on batch printing submission.

8.2. USER INPUT

USER INPUT

.One '*' -type line per user:

! POS.!	! LEN.!	! VALUE	! MEANING
! 2 !	! 1 !	! '*'	! Line code
! 3 !	! 8 !	! uuuuuuuu	! User code
! 11 !	! 8 !	! pppppppp	! Password

.One 'A' -type line per table to be printed:

! POS.!	! LEN.!	! VALUE	! MEANING
! 1 !	! 1 !	!	! Action code
! !	! !	! 'E'	! Table printing
! !	! !	! 'H'	! List of historical accounts
! !	! !	! 'L'	! List of the tables
! !	! !	! 'S'	! List of sub-schemas and sub-systems
! !	! !	! 'X'	! Table contents with historical accounts
! 2 !	! 1 !	! 'A'	! Line code
! 3 !	! 6 !	! tttttt	! Table number
! 9 !	! 8 !	! DDMMCCYY	! Historical account date or date of the reference historical with action code 'X'
! 17 !	! 1 !	!	! Sub-schema selection
! !	! !	! blank	! No sub-schema selection
! !	! !	! 1 to 0	! Selected sub-schema number
! 18 !	! 1 !	!	! Sub-system selection
! !	! !	! blank	! No sub-system selection
! !	! !	! 1 to 0	! Selected sub-system number
! 19 !	! 1 !	!	! Print option of the key's data elements
! !	! !	! blank	! Printing of concatenated data elements
! !	! !	! 'O'	! Printing of separated data elements

8.3. DESCRIPTION OF STEPS

PRTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

EXTRACTION OF TABLES FOR PRINTING: PTA320

.Permanent input files:
-Table-description File
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-Table-contents File
PAC7TV : DSN=&INDUV..&ROOTT.00TV
-User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Update transactions
PAC7CA : DSN=&&PRTAMB

.Output file:
-Print requests
PAC7DE : DSN=&&TABLE LRECL=80

.Output report:
-Transaction review
PAC7XE

PREPARATION FOR PRINTING: PTA350

.Permanent input files:
-Table-description File
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input transaction file:
-Print requests
PAC7DE : DSN=&&TABLE

.Output file:
-Print file
PAC7ET : DSN=&&SPOOL

.Output report:
-Statistics on printing
PAC7EX

PRINTING OF TABLES: PTA360

.Permanent input file:
-Tables-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input transaction file:

TABLE PRINTING
DESCRIPTION OF STEPS

(PRTA)

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-Print file
PAC7ET : DSN=&&SPOOL

.Output report:
-Printing of tables
PAC7EY

.Sort files:
SORTWK01, SORTWK02, SORTWK03

8.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*****
//*          --- TABLE PRINTING --- *
//*****
//$RADP.PRTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
//      INDUV='$INDUV',          PACTABLES FILES' INDEX *
//      INDSV='$INDSV',          VA PAC SYSTEM FILES' INDEX *
//      INDSN='$INDSN',          NON-VSAM FILE INDEX *
//*:    VSAMCAT='$VCAT',          USER VSAM CATALOG *
//*:    SYSTCAT='$SCAT',          SYSTEM VSAM CATALOG *
//      STEPLIB='$MODB',          LOAD-MODULE LIBRARY *
//      SORTLIB='$BIBT',          SORT LIBRARY *
//      OUT=$OUT,                  UTILITY AND ERROR OUTPUT CLASS *
//      OUTL=$OUT,                  REPORT OUTPUT CLASS *
//      UWK=$UWK,                   WORK UNIT *
//      CYL=3,                       SORTWORK SPACE *
//      SPAWK='(TRK,(50,10),RLSE)',  WORK FILE SPACE *
//      SPAED='(TRK,(150,30),RLSE)',  PRINTING FILE SPACE *
//      SPAMB='(TRK,(5,1),RLSE)'     REQUEST FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&PRTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA320 EXEC PGM=PTA320
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7CA DD DSN=&&PRTAMB,DISP=(OLD,PASS)
//PAC7DE DD DSN=&&TABLE,DISP=(NEW,PASS),UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//      SPACE=&SPAWK
//PAC7XE DD SYSOUT=&OUTL

```



```
//SYSUDUMP DD SYSOUT=&OUT
//PTA350 EXEC PGM=PTA350
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
// DISP=SHR
//PAC7DE DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET DD DSN=&&SPOOL,DISP=(NEW,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
// SPACE=&SPAED
//PAC7EX DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT
//PTA360 EXEC PGM=PTA360
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)
//PAC7EY DD SYSOUT=&OUTL
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
```

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TABLE IMPORT (IMTA)

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9. TABLE IMPORT (IMTA)

9.1. INTRODUCTION

TABLE IMPORT (IMTA): INTRODUCTION

This procedure imports external tables into the existing Pactables files.

You must first enter the description of the Table you want to import in the VA Pac Database, then generate this description (GETA/GETT procedures).

Once you have performed these operations, you can import the external Table via the IMTA procedure.

The IMTA input format of the Table to be imported is a sequential file which contains one record per table item, whose contents corresponds to the description performed in the VA Pac Database (input format).

The length of this file record is 999 characters (maximum length of a Table item).

EXECUTION CONDITION

Since this procedure updates the TV Table file, the files must be closed to on-line use.

NOTE: for platforms where the disk space allocated to the files is fixed:

If the table to be imported is large, you may have to --prior to this procedure execution-- save and reload, to either increase the size of TV file, or physically reorganize this file so as to make available the 'free space' initially provided.

RESTRICTION

Each execution of the procedure allows you to import only one table.

IMPORTANT NOTE:

An alternative version of the update program, PTA312, is shipped with Pactables Rel. 2.0.

During updates, the PTA310 program may call the user check routines in order to perform additional checks. The default generation option for these routines is 'without century management'.

From Release 2.0 onwards, the user check routines are generated with the century-management option. The new program, PTA312, must therefore be renamed and used instead of the PTA310 program.

In all cases, ALL the user check routines should be generated with the same century-management option.

9.2. USER INPUT

USER INPUT

.One '*' -type line per user:

! POS.!	! LEN.!	! VALUE	! MEANING	!
! 2 !	! 1 !	! '*'	! Line code	!
! 3 !	! 8 !	! uuuuuuuu	! User code	!
! 11 !	! 8 !	! pppppppp	! Password	!

.One 'A' -type line per table to be imported:

! POS.!	! LEN.!	! VALUE	! MEANING	!
! 2 !	! 1 !	! 'A'	! Line code	!
! 3 !	! 6 !	! tttttt	! Number of the table to be imported!	!
! 9 !	! 8 !	! DDMMCCYY	! Table date (optional)	!

9.3. DESCRIPTION OF STEPS

IMTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE CHECK AND UPDATE: PTA310

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Permanent input-output file:
-Table-contents files
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input file:
-Request transactions
PAC7MV : DSN=&&IMTAMB
-External table-file
PAC7NK : DSN=&TABF LRECL=999

.Output file:
-Print requests
PAC7DE : DSN=&&TABLE LRECL=80

.Output report:
-Execution report
PAC7ET

FORMATTING OF PRINTOUT: PTA350

.Permanent input files:
-Table-descriptions file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Input transaction file:
-Print requests
PAC7DE : DSN=&&TABLE

.Output file:
-Print file
PAC7ET : DSN=&&SPOOL

.Output report:
-Printing statistics
PAC7EX

PRINTING: PTA360

.Permanent input file:

TABLE IMPORT
DESCRIPTION OF STEPS

(IMTA)

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-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input transaction file:
-Print file
PAC7ET : DSN=&&SPOOL

.Output report:
-Table printout

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

9.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*
//*      ---- TABLE IMPORT ----
//*****
//$RADP.IMTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
//      INDUV='$INDUV',      PACTABLES FILES' INDEX *
//      INDSV='$INDSV',      VA PAC SYSTEM FILES' INDEX *
//      INDSN='$INDSN',      NON-VSAM FILES' INDEX *
//*:      VSAMCAT='$VCAT',      USER VSAM CATALOG *
//*:      SYSTCAT='$SCAT',      SYSTEM VSAM CATALOG *
//      STEPLIB='$MODB',      LOAD-MODULE LIBRARY *
//      SORTLIB='$BIBT',      SORT LIBRARY *
//      TABF=,      DSN OF TABLE FILE TO BE IMPORTED *
//      OUT=$OUT,      UTILITY AND ERROR OUTPUT CLASS *
//      OUTL=$OUTL,      REPORT OUTPUT CLASS *
//      UWK=$UWK,      WORK UNIT *
//      CYL=3,      SORTWORK SPACE *
//      SPAWK='(TRK,(50,10),RLSE)',      WORK FILE SPACE *
//      SPAED='(TRK,(150,30),RLSE)',      PRINT FILE SPACE *
//      SPAMB='(TRK,(5,1),RLSE)'      REQUEST FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&IMTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA310 EXEC PGM=PTA310
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7MV DD DSN=&&IMTAMB,DISP=(OLD,PASS)
//PAC7NK DD DSN=&TABF,DISP=OLD
//PAC7DE DD DSN=&&TABLE,DISP=(NEW,PASS),UNIT=&UWK,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//      SPACE=&SPAWK

```



```
//PAC7ET DD SYSOUT=&OUTL
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTA350 EXEC PGM=PTA350
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
// DISP=SHR
//PAC7DE DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET DD DSN=&&SPOOL,DISP=(NEW,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
// SPACE=&SPAED
//PAC7EX DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT
//PTA360 EXEC PGM=PTA360
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)
//PAC7EY DD SYSOUT=&OUTL
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
```

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TABLE REORGANIZATION (RETA)

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10. TABLE REORGANIZATION (RETA)

10.1. INTRODUCTION

RETA: TABLE REORGANIZATION

INTRODUCTION

From the Pactables Database, this procedure rebuilds the backup file containing the new table-description and table contents files, reorganized images of the initial TD and TV files.

RETA deletes the records that were logically deleted during update and reorganizes these files' historical accounts according to user requests (see the Pactables Reference Manual). The records that were logically deleted can be kept as options.

For user programs written in cobol II, RETA assigns a a sign to numeric data that contain a positive sign.

EXECUTION CONDITION

To ensure the consistency of the reorganized database, files must be closed to on-line use.

10.2. USER INPUT

USER INPUT

.One '*'-type line identifying the Pactables manager :

```
+-----+-----+-----+-----+
! POS.! LEN.! VALUE      ! MEANING                                     !
+-----+-----+-----+-----+
!  2 !  1 ! '*'           ! Line code                                   !
!  3 !  8 ! '*****'      ! Table manager administrator's code       !
! 11 !  8 ! pppppppp     ! Table manager password                    !
+-----+-----+-----+-----+
```

.One 'A'-type line per historical account to keep or delete:

```

+-----+
! POS.! LEN.! VALUE  ! MEANING  !
+-----+
!  1 !  1 !         ! Action code !
!   !   ! 'S'    ! Historical account to delete !
!   !   ! 'G'    ! Historical account to keep  !
!  2 !  1 ! 'A'    ! Line code    !
!  3 !  6 ! tttttt ! Table number !
!  9 !  8 ! DDMCCYY ! Historical account date !
! 19 !  1 !         ! Option      !
!   !   !         ! - when the action code is equal to !
!   !   !         ! 'G', storing of the historical !
!   !   !         ! account whose date is equal to !
!   !   !         ! the date specified. !
!   !   !         ! If there is no date, all !
!   !   !         ! historical accounts are stored. !
!   !   !         ! - When the action code is equal !
!   !   !         ! to 'S', deletion of the historical !
!   !   !         ! account whose date is equal to !
!   !   !         ! the date specified. !
!   !   ! '<'    ! - When the action code is equal to !
!   !   !         ! 'G', storing of all historical !
!   !   !         ! accounts whose dates are strictly !
!   !   !         ! smaller than the date specified. !
!   !   !         ! - When the action code is equal to !
!   !   !         ! 'S', deletion of all historical !
!   !   !         ! accounts whose dates are strictly !
!   !   !         ! smaller than the date specified. !
!   !   ! '>'    ! - When the action code is equal to !
!   !   !         ! 'G', storing of all historical !
!   !   !         ! accounts whose dates are higher !
!   !   !         ! than or equal to the date specified !
!   !   !         ! - When the action code is equal to !
!   !   !         ! 'S', deletion of all historical !
!   !   !         ! accounts whose dates are higher !
!   !   !         ! than or equal to the date !
!   !   !         ! specified. !
+-----+

```

The action codes 'G' and 'S' are exclusive.

For more details, see the Pactables Reference Manual.

10.3. DESCRIPTION OF STEPS

RETA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

REORGANIZATION OF TABLE CONTENTS: PTA400

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Reorganization requests
PAC7DR : DSN=&&RETAMB

.Output file:
-Reorganized-contents file
PAC7TX : DSN=&&TXREO LRECL=1063
-Reorganized-table list file
PAC7DE : DSN=&&DEREO LRECL=80

NOTE: This file, whose description contains print requests, may be kept. Once the reorganization is finished, it can be used as input for the PRTA procedure applied to the reorganized files, thus enabling the printing of all the tables that were kept, in order to check the correct execution of the reorganization.

.Output report:
-Transaction report
PAC7IR

.Sort files:
SORTWK01, SORTWK02, SORTWK03

.Return codes:
- 0: No error detected.
- 4: Error on an 'A' line.

VALIDIDATION OF TABLE CONTENTS: PTA410

.Updating input file :
-Reorganization requests

.Input file:
-Reorganized-contents file
PAC7TX : DSN=&&TXREO

.Output file:
-Validated-contents file
PAC7TW : DSN=&&TWREO

.Sort files:
SORTWK01, SORTWK02, SORTWK03

REORGANIZATION OF TABLE-DESCRIPTIONS: PTA420

.Permanent input file:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input file:
-Reorganized-table list file
PAC7DE : DSN=&&DEREO

.Output files:
-Reorganized table-description file
PAC7TS : DSN=&&TSREO
-Table-description print request
PAC7ML : DSN=&&ME

NOTE: This file should be kept and used as input of the LDTA procedure, to produce a printout of the table-descriptions that were kept, in order to check the correct execution of the reorganization.

-Sort files:
SORTWK01, SORTWK02, SORTWK03

BUILDING OF BACKUP FILE: PTA430

.Input files:
-Validated-contents file
PAC7TW : DSN=&&TWREO
-Reorganized-description file
PAC7TS : DSN=&&TSREO

.Output file:
-Backup file resulting from
reorganization
PAC7TC : DSN=&&INDUN..&ROOTT.00TC(+1)

TG FILE BACKUP: PTASVG

.Permanent input file:
-User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Output file:
-Table backup
PAC7TC : DSN=&INDUN..&ROOTT.00TC(+1),DISP=MOD

10.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//* --- REORGANIZATION OF TABLES --- *
//*****
//$RADP.RETA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
//      INDUV='$INDUV', PACTABLES FILE INDEX *
//      INDSV='$INDSV', VA PAC SYSTEM FILE INDEX *
//      INDSN='$INDSN', NON VSAM FILES INDEX *
//      INDUN='$INDUN', NON-VSAM USER FILE INDEX *
//*: VSAMCAT='$VCAT', USER VSAM CATALOG *
//*: SYSTCAT='$SCAT', SYSTEM USER CATALOG *
//      STEPLIB='$MODB', LIBRARY OF LOAD-MODULES *
//      SORTLIB='$BIBT', SORT LIBRARY *
//      OUT=$OUT, OUTPUT CLASS *
//      OUTL=$OUT, OUTPUT CLASS OF REPORTS *
//      UNITS=$UNITUN, BACKUP UNIT (DISK OR TAPE) *
//      VOLS='SER=$VOLUN', BACKUP VOLUME *
//      DSCB='$DSCB', SAMPLE DSCB FILE *
//      UWK=$UWK, WORK UNIT *
//      CYL='(3,1)', SORTWORK SPACE *
//      SPAWK='(TRK,(50,10),RLSE)', WORK FILE SPACE *
//      SPAMB='(TRK,(5,1),RLSE)', REQUEST FILE SPACE *
//      SPATC='(TRK,(150,10),RLSE)' BACKUP FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&RETAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA400 EXEC PGM=PTA400
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,

```


TABLE REORGANIZATION (RETA)
EXECUTION JCL

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```
//          DISP=SHR
//PAC7DR   DD DSN=&&RETAMB,DISP=(OLD,PASS)
//PAC7DE   DD DSN=&&DEREO,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//PAC7TX   DD DSN=&&TXREO,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=VB,LRECL=1063,BLKSIZE=10630)
//PAC7IR   DD SYSOUT=&OUTL
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTA410   EXEC PGM=PTA410
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//PAC7MB   DD DSN=&&RETAMB,DISP=(OLD,PASS)
//PAC7TX   DD DSN=&&TXREO,DISP=(OLD,PASS)
//PAC7TW   DD DSN=&&TWREO,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=VB,LRECL=1063,BLKSIZE=10630)
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTA420   EXEC PGM=PTA420
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PAC7TD   DD DSN=&INDUV..&ROOTT.00TD,
//          DISP=SHR
//PAC7TS   DD DSN=&&TSREO,DISP=(NEW,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//PAC7DE   DD DSN=&&DEREO,DISP=(OLD,PASS)
//PAC7ML   DD DSN=&&ME,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTA430   EXEC PGM=PTA430,COND=(8,LE,PTA400)
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TS   DD DSN=&&TSREO,DISP=(OLD,PASS)
//PAC7TW   DD DSN=&&TWREO,DISP=(OLD,PASS)
//PAC7TC   DD DSN=&INDUN..&ROOTT.00TC(+1),
//          UNIT=&UNITS,VOL=&VOLS,
//          DISP=(NEW,CATLG,DELETE),
//          SPACE=&SPATC,
//          DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTASVG   EXEC PGM=PTASVG,COND=(8,LE,PTA400)
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TG   DD DSN=&INDUV..&ROOTT.00TG,
//          DISP=SHR
//PAC7TC   DD DSN=&INDUN..&ROOTT.00TC(+1),
//          UNIT=&UNITS,VOL=&VOLS,
//          DISP=MOD,
//          DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

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BACKUP (SVTA)

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11. BACKUP

(SVTA)

11.1. INTRODUCTION

TABLE BACKUP (SVTA): INTRODUCTION

The SVTA procedure performs a backup of the Table descriptions and contents, and a backup of the user parameters in a unique sequential file: TC.

EXECUTION CONDITION

The files must be closed to on-line use.

USER INPUT

None.

11.2. DESCRIPTION OF STEPS

SVTA: DESCRIPTION OF STEPS

TD BACKUP: PTASVD

.Permanent input files:
-Table-description file
 PAC7TD : DSN=&INDUV..&ROOTT.00TD
.Output file:
-Table backup
 PAC7TC : DSN=&INDUN..&ROOTT.00TC(+1)

TV BACKUP: PTASVV

.Permanent input file:
-Table-contents file
 PAC7TV : DSN=&INDUV..&ROOTT.00TV
.Output file:
-Table backup
 PAC7TC : DSN=&INDUN..&ROOTT.00TC(+1),DISP=MOD

TG BACKUP: PTASVG

.Permanent input file:
-User-parameter file
 PAC7TG : DSN=&INDUV..&ROOTT.00TG
.Output file:
-Table backup
 PAC7TC : DSN=&INDUN..&ROOTT.00TC(+1),DISP=MOD

11.3. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*****
//*          ---  BACKUP  --- *
//*****
//$RADP.SVTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
//      INDUV='$INDUV',      USER VSAM FILES INDEX *
//      INDUN='$INDUN',      NON VSAM FILES INDEX *
//*:      VSAMCAT='$VCAT',    USER VSAM CATALOG *
//      STEPLIB='$MODB',     BIBLI DE LOAD-MODULES *
//      OUT=$OUT,            OUTPUT CLASS *
//      DSCB='$DSCB',       DSCB MODEL FILE *
//      VOLS='$SER=$VOLUN',  BACKUP VOLUME *
//      UNITS=$UNITUN,      BACKUP UNIT (DISK OR TAPE) *
//      SPATC='(TRK,(150,10))'  BACKUP SPACE *
//*****
//PTASVD EXEC PGM=PTASVD
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TC DD DSN=&INDUN..&ROOTT.00TC(+1),
//      UNIT=&UNITS,VOL=&VOLS,
//      DISP=(,CATLG,DELETE),SPACE=&SPATC,
//      DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTASVV EXEC PGM=PTASVV
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TC DD DSN=&INDUN..&ROOTT.00TC(+1),
//      UNIT=&UNITS,VOL=&VOLS,
//      DISP=MOD,
//      DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTASVG EXEC PGM=PTASVG
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7TC DD DSN=&INDUN..&ROOTT.00TC(+1),
//      UNIT=&UNITS,VOL=&VOLS,
//      DISP=MOD,
//      DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT

```

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12. PACTABLES TRANSFER FROM ANOTHER PLATFORM (TCTA)

12.1. INTRODUCTION

TRANSFER OF A DATABASE FROM ANOTHER PLATFORM

The purpose of this procedure is to retrieve Pactables Databases from other platforms (source-platforms) in order to adapt them to your environment.

The Database backup is sorted according to the format converted in the EBCDIC format for IBM-MVS (TCTA procedure).

If the source-site version is the same as the target site's version, the actions to perform are the following:

- . Backup on the source site (SVTA procedure)
- . Transfer of the TC file produced by SVTA onto the target platform,
- . Retrieval of the file on the target platform (TCTA procedure),
- . Restoration of the database (RSTA procedure), with, in input, the TC file built by the preceding step.

If on the contrary, the source site is of an older version and that the version requires a retrieval, the TC backup must be retrieved in the new format ON THE SOURCE SITE before being transferred onto the target environment.

EXECUTION CONDITION

None. However, read the notes on the following page carefully.

USER INPUT

None.

NOTES

1. BACKUP TRANSFER

Transferring the TC backup from the source site to the mainframe host where Pactables is installed is the responsibility of the user. The file contains data (DATA) which must be converted in the EBCDIC format.

2. DISK SPACE

The TCTA procedure, described thereafter, consists mainly of sorting the TC backup according to an EBCDIC sequence. The sort is performed in three distinct steps, so as to minimize the disk space required. However, the procedure requires between 4 to 4.5 times the equivalent of the original file's size.

3. INITIAL AND RESULT FILES

The TC backup input file, coming from a different platform, is specified in the TCTA procedure by its DSNAME, by setting a value to the SAVIN parameter. As a default, generation 0 of the Data-group corresponding to the backup of the Pactables database is used.

As a default, the TC output file, sorted according to the EBCDIC sequence, corresponds to the generation +1 of the Pactables database backup. This file may be retrieved by performing an Overrid on the PTATC2.PAC7TC procedure (see the execution test JCL provided).

12.2. DESCRIPTION OF STEPS

TCTA: DESCRIPTION OF STEPS

TC BACKUP SPLIT: PTATC1

.Input backup file
PAC7TC : (SAVIN parameter of the procedure)

.Output work files:
-Table-description sequential image
PAC7SD : DSN=&&PAC7SD
-Table-contents sequential image
PAC7SV : DSN=&&PAC7SV
-Parameter sequential image
PAC7SG : DSN=&&PAC7SG

TABLE-DESCRIPTION SORT: PTATCD

.Input work file:
-Table-description sequential image
PAC7SD : DSN=&&PAC7SD

.Output work file:
-Sorted table descriptions
PAC7AD : DSN=&&PAC7AD

TABLE-CONTENTS SORT: PTATCV

.Input work file:
-Sequential image of table-contents
PAC7SV : DSN=&&PAC7SV

.Output work file:
-Sorted table-contents
PAC7AV : DSN=&&PAC7AV

USER-PARAMETER SORT: PTATCG

.Input work file:
Sequential image of parameters
PAC7SG : DSN=&&PAC7SG

.Output work file:
-Sorted user parameters
PAC7AG : DSN=&&PAC7AG

RECONSTITUTION OF THE TC BACKUP: PTATC2

.Permanent output file:
-TC backup in EBCDIC format
PAC7TC : DSN=&INDUN..&ROOTT.00TC(+1)

.Input work files:
-Table-description sequential image
PAC7AD : DSN=&&PAC7AD
-Sequential image of contents
PAC7AV : DSN=&&PAC7AV
-Sequential image of parameters
PAC7AG : DSN=&&PAC7AG

PACTABLES TRANSFER FROM ANOTHER PLATFORM (TCTA)
EXECUTION JCL

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12.3. EXECUTION JCL

```

//*****
// * VisualAge Pacbase Pactable 2.5 *
//*****
// * ----- TRANSFER OF A PACTABLES DATABASE ----- *
//*****
// $RADP.TCTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
// INDUN=$INDUN', BACKUP FILES' INDEX *
// *: VSAMCAT='$VCAT', USER VSAM CATALOG *
// STEPLIB='$MODB', LOAD-MODULE LIBRARY *
// UWK=$UWK, WORK UNIT *
// OUT=$OUT, OUTPUT CLASS *
// SAVIN='$INDUN..$ROOTT.00TC(0)', INPUT BACKUP FILE *
// SPASD=(TRK,(15,5),RLSE)', 'SD' FILE SPACE *
// SPASV=(TRK,(15,5),RLSE)', 'SV' FILE SPACE *
// SPASG=(TRK,(15,5),RLSE)', 'SG' FILE SPACE *
// CYL=(3,1)' SORTWORK SPACE *
//*****
//PTATC1 EXEC PGM=PTATC1
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7TC DD DSN=&SAVIN,DISP=SHR
//PAC7SD DD DSN=&&PAC7SD,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASD,
// DCB=(RECFM=FB,LRECL=244,BLKSIZE=24400)
//PAC7SV DD DSN=&&PAC7SV,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASV,
// DCB=(RECFM=FB,LRECL=1063,BLKSIZE=10630)
//PAC7SG DD DSN=&&PAC7SG,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASG,
// DCB=(RECFM=FB,LRECL=89,BLKSIZE=8900)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTATCD EXEC PGM=PTATCD
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7SD DD DSN=&&PAC7SD,DISP=SHR
//PAC7AD DD DSN=&&PAC7AD,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASD,
// DCB=(RECFM=FB,LRECL=244,BLKSIZE=24400)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTATCV EXEC PGM=PTATCV
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7SV DD DSN=&&PAC7SV,DISP=SHR
//PAC7AV DD DSN=&&PAC7AV,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASV,
// DCB=(RECFM=FB,LRECL=1063,BLKSIZE=10630)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTATCG EXEC PGM=PTATCG
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7SG DD DSN=&&PAC7SG,DISP=SHR
//PAC7AG DD DSN=&&PAC7AG,DISP=(,PASS),UNIT=SYSDA,
// SPACE=&SPASG,
// DCB=(RECFM=FB,LRECL=89,BLKSIZE=8900)
//SYSOUT DD SYSOUT=&OUT

```

PACTABLES TRANSFER FROM ANOTHER PLATFORM (TCTA)
EXECUTION JCL

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```
//SYSUDUMP DD SYSOUT=&OUT
//PTATC2 EXEC PGM=PTATC2
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7AD DD DSN=&&PAC7AD,DISP=SHR
//PAC7AV DD DSN=&&PAC7AV,DISP=SHR
//PAC7AG DD DSN=&&PAC7AG,DISP=SHR
//PAC7TC DD DSN=&INDUN..&ROOTT.00TC(+1),
// DISP=(,CATLG,DELETE),
// UNIT=$UNITUN,
// VOL=SER=$VOLUN,
// SPACE=(TRK,(15,5),RLSE),
// DCB=($DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

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RESTORATION (RSTA)

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13. RESTORATION (RSTA)

13.1. INTRODUCTION

RESTORATION (RSTA): INTRODUCTION

The RSTA procedure is used to restore the Table descriptions and contents, as well as the user parameters, from the sequential image obtained by the SVTA backup procedure.

EXECUTION CONDITION

On-line access must be closed.

As this procedure reloads the files, it is recommended to consider beforehand the estimated evolution of the files and re-adjust their size accordingly. These modifications should be made in the system parameters library.

ABNORMAL EXECUTION

See Chapter BATCH PROCEDURES, Subchapter 'Abnormal Executions'.

Whatever the cause of the abnormal end, the procedure can be restarted as is, after correcting the problem.

USER INPUT

None.

13.2. DESCRIPTION OF STEPS

RSTA: DESCRIPTION OF STEPS

DEFINITION OF FILES: IDCAMS

.Defined files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

RESTORATION OF TD: PTARSD

.Permanent output file:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Permanent input file:
-Table backup
PAC7TC : DSN=&INDUN..&ROOTT.00TC(0)

RESTORATION OF TV: PTARSV

.Permanent output file:
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV

.Permanent input file:
-Table backup
PAC7TC : DSN=&INDUN..&ROOTT.00TC(0)

RESTORATION OF TG: PTARSG

.Permanent output file:
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Permanent input file:
-Table backup
PAC7TC : DSN=&INDUN..&ROOTT.00TC(0)

13.3. EXECUTION JCL

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- RESTORATION --- *  
//*****  
// $RADP.RSTA PROC ROOTT=$ROOTT, ROOT OF THE PACTABLES SYSTEM *  
//      INDUV='$INDUV', INDEX OF PACTABLES FILES *  
//      INDUN='$INDUN', INDEX OF BACKUP FILES *  
//      INDSN='$INDSN', INDEX NON VSAM FILES *  
// *: VSAMCAT='$VCAT', USER VSAM CATALOG *  
//      STEPLIB='$MODB', LIBRARY OF LOAD-MODULES *  
//      OUT=$OUT OUTPUT CLASS *  
//*****  
// DEFINE EXEC PGM=IDCAMS *  
//*****  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// SYSPRINT DD SYSOUT=&OUT *  
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TD), *  
//      DISP=SHR *  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TV), *  
//      DISP=SHR *  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TG), *  
//      DISP=SHR *  
// PTARSD EXEC PGM=PTARSD *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// PAC7TD DD DSN=&INDUV..&ROOTT.00TD, *  
//      DISP=SHR *  
// PAC7TC DD DSN=&INDUN..&ROOTT.00TC(0), *  
//      DISP=SHR *  
// SYSOUT DD SYSOUT=&OUT *  
// SYSUDUMP DD SYSOUT=&OUT *  
// PTARSV EXEC PGM=PTARSV *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// PAC7TV DD DSN=&INDUV..&ROOTT.00TV, *  
//      DISP=SHR *  
// PAC7TC DD DSN=&INDUN..&ROOTT.00TC(0), *  
//      DISP=SHR *  
// SYSOUT DD SYSOUT=&OUT *  
// SYSUDUMP DD SYSOUT=&OUT *  
// PTARSG EXEC PGM=PTARSG *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG, *  
//      DISP=SHR *  
// PAC7TC DD DSN=&INDUN..&ROOTT.00TC(0), *  
//      DISP=SHR *  
// SYSOUT DD SYSOUT=&OUT *  
// SYSUDUMP DD SYSOUT=&OUT *
```

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14. LIST OF TABLE DESCRIPTIONS (LDTA)

14.1. INTRODUCTION

LDTA: LIST OF TABLE DESCRIPTIONS

INTRODUCTION

This procedure prints table descriptions.

EXECUTION CONDITION

This procedure reads the TD file, which can remain open to on-line use.

14.2. USER INPUT

USER INPUT

.A 'Z'-type line per print request:

```
+-----+-----+-----+-----+
! POS.! LEN.! VALUE  ! MEANING
+-----+-----+-----+-----+
!  2 !  1 ! 'Z'      ! Line code
!  5 !  4 !         ! Print request
!   !   ! 'TLS '   ! List of table descriptions
!   !   ! 'TDS '   ! Table description
!  9 !  6 ! tttttt  ! Table number
! 23 !  8 ! MMDDCCYY ! Historical account date
+-----+-----+-----+-----+
```

NOTE:

The input transactions are not validated; erroneous requests are not taken into account.

14.3. DESCRIPTION OF STEPS

LDTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE-DESCRIPTION PRINTING: PTA290

.Permanent input file:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input transaction file:
-Print request
PAC7TE :DSN=&&LDTAMB

.Output report:
-Table-description printout
PAC7ID

14.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//* --- LIST OF TABLE DESCRIPTIONS --- *
//*****
//$RADP.LDTA PROC ROOTT=$ROOTT, ROOT OF THE PACTABLES SYSTEM *
// INDUV='$INDUV', INDEX OF PACTABLES FILES *
// INDSN='$INDSN', INDEX NON-VSAM FILES *
//*: VSAMCAT='$VCAT', USER VSAM CATALOG *
// STEPLIB='$MODB', LIBRARY OF LOAD-MODULES *
// OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLA *
// OUTL=$OUT, OUTPUT CLASS OF REPORTS *
// UWK=$UWK, WORK UNIT *
// SPAMB='(TRK,(5,1),RLSE)' REQUEST-FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&LDTAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
// DISP=SHR
//PTA290 EXEC PGM=PTA290
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7TE DD DSN=&&LDTAMB,DISP=(OLD,PASS)
//PAC7ID DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT

```

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PARAMETER UPDATE (PMTA)

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15. PARAMETER UPDATE (PMTA)

15.1. INTRODUCTION

PMTA: USER PARAMETER UPDATE

INTRODUCTION

This procedure updates Pactables user codes, passwords and authorizations as well as control cards for print request submission.

When the user input contains a 'TA' line with the Database Administratoruser's code, the PMTA procedure prints all the user parameters.

EXECUTION CONDITION

This procedure updates the TG file, which must be closed to on-line use except if the material in use allows Batch/TP concurrency.

15.2. USER INPUT

USER INPUT

'TA'-line: user parameter updating:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 1 !	! 1 !	!	!Action code	!
!	!	! blank	!Creation or modification	!
!	!	! 'C'	!Creation	!
!	!	! 'M'	!Modification	!
!	!	! 'D'	!Deletion	!
! 2 !	! 8 !	!uuuuuuu!	!User code	!
! 10 !	! 2 !	! 'TA'	!Line code	!
! 12 !	! 8 !	!pppppppp!	!Password	!
! 20 !	! 1 !	!	!General access authorization	!
!	!	! '0'	!No general access authorization	!
!	!	! '1'	!Read-only access	!
!	!	! '2'	!Read-write access	!
!	!	! '3'	!User codes update authorized	!

'TC'-line: access authorizations per table:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 1 !	! 1 !	!	!Action code	!
!	!	! blank	!Creation or modification	!
!	!	! 'C'	!Creation	!
!	!	! 'M'	!Modification	!
!	!	! 'D'	!Deletion	!
! 2 !	! 8 !	!uuuuuuu!	!User code	!
! 10 !	! 2 !	! 'TC'	!Line code	!
! 12 !	! 6 !	!tttttt!	!Table code	!
! 18 !	! 3 !	!nnn	!Line number	!
! 21 !	! 60 !	!	!Access authorizations: 20 access	!
!	!	!	!authorizations may be entered in this	!
!	!	!	!field, with, for each authorization:	!
!	! 1 !	! n	! pos. 1: sub-schema number	!
!	!	!	! ('*' for all sub-schemas)	!
!	! 1 !	! n	! pos. 2: sub-system number	!
!	!	!	! ('*' for all sub-systems)	!
!	! 1 !	! x	! pos. 3: authorization (0,1 or 2)	!

'TJ'-line: control cards:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 1 !	! 1 !	!	!Action code	!
!	!	! blank	!Creation or modification	!
!	!	! 'C'	!Creation	!
!	!	! 'M'	!Modification	!
!	!	! 'D'	!Deletion	!
! 2 !	! 8 !	!uuuuuuuu!	!User code	!
! 10 !	! 2 !	! 'TJ'	!Line code	!
! 12 !	! 6 !	!	!JCL line number	!
!	!	!<600000	!Control card in front of program	!
!	!	!>599999	!Control card in back of program	!
! 18 !	! 69 !	!	!Content of JCL line	!

NOTE:

When a user code is deleted, related access authorizations and JCL lines are also deleted.

The Database must include at least one administrator code with an access authorization of 3 . The deletion of this code is not allowed.

15.3. DESCRIPTION OF STEPS

PMTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

PARAMETER UPDATE: PTA100

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE

.Permanent input-output file:
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Extraction requests
PAC7MV : DSN=&&PMTAMB

.Output file:
-Parameter printing requests
PAC7NU : DSN=&&NUTAB

.Output report:
-Printing of descriptions
PAC7ET

PRINTING OF USER PARAMETERS: PTA120

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Print requests
PAC7NU : DSN=&&NUTAB

.Output report:
-Printing of user parameters
PAC7ET

15.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//*****
//*          --- USER PARAMETER UPDATE  --- *
//*****
//$RADP.PMTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
//      INDUV='$INDUV',          INDEX OF PACTABLES FILES *
//      INDSV='$INDSV',          INDEX OF VA PAC SYSTEM FILES *
//      INDSN='$INDSN',          NON-VSAM FILES INDEX *
//*:      VSAMCAT='$VCAT',        VSAM USER CATALOG *
//*:      SYSTCAT='$SCAT',        VSAM SYSTEM CATALOG *
//      STEPLIB='$MODB',          LIBRARY OF LOAD-MODULES *
//      OUT=$OUT,                UTILITIES AND ERRORS OUTPUT CLASS *
//      OUTL=$OUT,              OUTPUT CLASS OF REPORTS *
//      UWK=$UWK,               WORK UNIT *
//      SPANU='(TRK,(1,1),RLSE)', WORK FILE SPACE *
//      SPAMB='(TRK,(5,1),RLSE)' REQUEST-FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&PMTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA100 EXEC PGM=PTA100
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7MV DD DSN=&&PMTAMB,DISP=(OLD,DELETE)
//PAC7NU DD DSN=&&NU,DISP=(,PASS),UNIT=&UWK,
//      SPACE=&SPANU,
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//PAC7ET DD SYSOUT=&OUTL
//SYSUDUMP DD SYSOUT=&OUT
//PTA120 EXEC PGM=PTA120
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,

```

PARAMETER UPDATE
EXECUTION JCL

(PMTA)

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```
//          DISP=SHR  
//PAC7NU   DD DSN=&&NU,DISP=(OLD,DELETE)  
//PAC7ET   DD SYSOUT=&OUTL  
//SYSUDUMP DD SYSOUT=&OUT
```

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16. TABLE EXTRACTION (EXTA)

16.1. INTRODUCTION

EXTA: TABLE EXTRACTION

INTRODUCTION

The EXTA procedure transforms table data into batch update transactions.

EXECUTION CONDITION

This procedure reads the Pactables files, which can remain open to on-line use.

16.2. USER INPUT

USER INPUT

.One '*'-type line per user:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 2 !	! 1 !	! '*'	!Line code	!
! 3 !	! 8 !	!uuuuuuu!	User code	!
! 11 !	! 8 !	!pppppppp!	Password	!

.One 'A'-type line per table to extract:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 2 !	! 1 !	! 'A'	!Line code	!
! 3 !	! 6 !	! tttttt	!Table number	!
! 9 !	! 8 !	!DDMMCCYY!	Historical account date	!
! 17 !	! 1 !	!	!Not used	!
! 18 !	! 1 !	!	!Sub-system selection	!
!	!	! blank	!No sub-system selection	!
!	!	! 1 TO 0	!Number of selected sub-system	!
! 19 !	! 1 !	!	!Data delimiter	!
!	!	! blank	! '/'	!

16.3. DESCRIPTION OF STEPS

EXTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

EXTRACTION OF TABLE DATA: PTA150

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-Table contents file
DSN=&INDUV..&ROOTT.00TV
-User parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Extraction requests
PAC7MV : DSN=&&EXTAMB

.Output file:
-Extracted transactions
PAC7EX : DSN=&&EX

.Output report:
-Transaction review
PAC7ET

PRINTING OF EXTRACTED TRANSACTIONS: PTA160

.Permanent input file:
-Table description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD

.Input transaction file:
-Extracted transactions
PAC7EX : DSN=&&EX

.Output report:
-Printing of extracted data
PAC7ET

.Output file:
-Extracted transactions
PAC7NU : DSN=&&MBTAB

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

.Return codes:
- 0: No delimiter in data
- 8: Delimiter in at least one table
-12: Delimiter in all tables

16.4. EXECUTION JCL

```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//* --- TABLE EXTRACTION --- *
//*****
//$RADP.EXTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
//      INDUV='$INDUV',      INDEX OF PACTABLES FILES *
//      INDSV='$INDSV',      INDEX OF VA PAC SYSTEM FILES *
//      INDSN='$INDSN',      NON VSAM FILES INDEX *
//*:      VSAMCAT='$VCAT',      VSAM USER CATALOG *
//*:      SYSTCAT='$SCAT',      VSAM SYSTEM CATALOG *
//      STEPLIB='$MODB',      LIBRARY OF LOAD-MODULES *
//      SORTLIB='$BIBT',      SORT LIBRARY *
//      OUT=$OUT,      UTILITIES AND ERRORS OUTPUT CLASS *
//      OUTL=$OUTL,      OUTPUT CLASS OF REPORTS *
//      UWK=$UWK,      WORK UNIT *
//      CYL='(3,1)',      SORT-FILE SPACE *
//      SPAEX='(TRK,(10,10),RLSE)', EXTRACTED-TRANSACTIONS SPA *
//      SPAMB='(TRK,(5,1),RLSE)' REQUEST-FILE SPACE *
//*****
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&EXTAMB,DISP=(,PASS),UNIT=&UWK,
//      DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//      DISP=SHR
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//      DISP=SHR
//PTA150 EXEC PGM=PTA150
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*:      DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7ET DD SYSOUT=&OUTL
//PAC7EX DD DSN=&&EX,DISP=(,PASS),UNIT=&UWK,
//      SPACE=&SPAEX,
//      DCB=(RECFM=FB,LRECL=120,BLKSIZE=2400)
//PAC7MV DD DSN=&&EXTAMB,DISP=(OLD,DELETE)
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
//      DISP=SHR
//PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//      DISP=SHR
//PAC7TV DD DSN=&INDUV..&ROOTT.00TV,
//      DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//SYSUDUMP DD SYSOUT=&OUT

```



```
//PTA160 EXEC PGM=PTA160
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7ET DD SYSOUT=&OUTL
//PAC7EX DD DSN=&&EX,DISP=(OLD,PASS)
//PAC7NU DD DSN=&&MBTAB,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAEX,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//SYSOUX DD SYSOUT=&OUT
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
```

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17. DIRECT CONSULTATION OF TABLES (TUTA)

17.1. INTRODUCTION

TUTA: DIRECT CONSULTATION OF TABLES

INTRODUCTION

The TUTA procedure extracts tables in the form of tables without historical account intended to be used.

The procedure creates two new files which contain the descriptions and contents of the selected tables. There is only one description and one version of data for each selected table.

EXECUTION CONDITION

This procedure recreates the AD and AV files, which must therefore be closed to on-line use. These two files are the reorganized images of TD and TV respectively.

The TUTA procedure defines both files in the second step.

17.2. USER INPUT

USER INPUT

.One '*'-type line :

```
+-----+-----+-----+-----+
!POS.!LEN.! VALUE !MEANING      !
+-----+-----+-----+-----+
!  2 !  1 !  '*'   !Line code      !
!  3 !  8 !uuuuuuu!User code      !
! 11 !  8 !ppppppp!Password      !
+-----+-----+-----+-----+
```

.One 'A'-type line for each selected table:

```
+-----+-----+-----+-----+
!POS.!LEN.! VALUE !MEANING      !
+-----+-----+-----+-----+
!  2 !  1 !  'A'   !Line code      !
!  3 !  6 ! tttttt !Table number   !
!  9 !  8 !DDMMCCYY!Historical account date !
+-----+-----+-----+-----+
```

When no 'A'-type line is entered, the user may use all the tables that are accessible at that time. A different date may be entered on a single 'A'-type line where no table number is indicated.

17.3. DESCRIPTION OF STEPS

TUTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

DIRECT CONSULTATION OF TABLES: PTAU80

.Permanent input files:
-Table-description file
PAC7TD : DSN=&INDUV..&ROOTT.00TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-Table-contents file
PAC7TV : DSN=&INDUV..&ROOTT.00TV
-User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Request transactions
PAC7MX : DSN=&&TUTAMB

.Permanent output files:
-Table-description file
PAC7AD : DSN=&INDUV..&ROOTT.00AD
-Table-contents file
PAC7AV : DSN=&INDUV..&ROOTT.00AV

.Output report:
-Transaction report
PAC7ET

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

17.4. EXECUTION JCL

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * ----- DIRECT CONSULTATION OF TABLES ----- *  
//*****  
// $RADP.TUTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *  
//      INDUV=$INDUV, INDEX OF PACTABLES FILES *  
//      INDSV=$INDSV, INDEX OF VA PAC SYSTEM FILES *  
//      INDSN=$INDSN, NON VSAM FILES INDEX *  
// * : VSAMCAT=$VCAT, VSAM USER CATALOG *  
// * : SYSTCAT=$SCAT, VSAM SYSTEM CATALOG *  
//      STEPLIB=$MODB, LIBRARY OF LOAD-MODULES *  
//      SORTLIB=$BIBT, SORT LIBRARY *  
//      OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLASS *  
//      OUTL=$OUT, OUTPUT CLASS OF REPORTS *  
//      CYL=(3,1), SORT-FILE SPACE *  
//      UWK=$UWK, WORK UNIT *  
//      SPAMB=(TRK,(5,1),RLSE) REQUEST-FILE SPACE *  
//*****  
// COPY EXEC PGM=PTU001  
//*****  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// PAC7MB DD DSN=&&TUTAMB, DISP=(,PASS), UNIT=&UWK,  
//      DCB=BLKSIZE=1600, SPACE=&SPAMB  
// CARTE DD DDNAME=SYSIN, DCB=BLKSIZE=80  
// VERIFY EXEC PGM=IDCAMS  
//*****  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSPRINT DD SYSOUT=&OUT  
// PAC7TD DD DSN=&INDUV..&ROOTT.00TD,  
//      DISP=SHR  
// PAC7TV DD DSN=&INDUV..&ROOTT.00TV,  
//      DISP=SHR  
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,  
//      DISP=SHR  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,  
//      DISP=SHR  
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00AD),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00AV),  
//      DISP=SHR  
// PTAU80 EXEC PGM=PTAU80  
//*****  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// SORTLIB DD DSN=&SORTLIB, DISP=SHR  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSOUT DD SYSOUT=&OUT  
// PAC7TD DD DSN=&INDUV..&ROOTT.00TD,  
//      DISP=SHR  
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,  
//      DISP=SHR  
// PAC7TV DD DSN=&INDUV..&ROOTT.00TV,  
//      DISP=SHR  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,  
//      DISP=SHR  
// PAC7AD DD DSN=&INDUV..&ROOTT.00AD,  
//      DISP=SHR
```

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EXECUTION JCL**

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```
//PAC7AV DD DSN=&INDUV..&ROOTT.00AV,  
// DISP=SHR  
//PAC7MX DD DSN=&&TUTAMB,DISP=(OLD,DELETE)  
//PAC7ET DD SYSOUT=&OUTL  
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//SYSUDUMP DD SYSOUT=&OUT
```

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18. DISPATCHED TABLE MANAGEMENT (DTM OPTION)

18.1. TABLE DESCRIPTION COMPARISON (CDT1-CDT2)

DISPATCHED TABLE MANAGER (DTM)

The Dispatched Table Manager is an optional utility and its use depends on a specific purchase agreement.

TABLE DESCRIPTION COMPARISON

The CDT1 procedure compares two different states of a Table description file and extracts the differences, giving an intermediate sequential file.

This file may be used as input in the CDT2 procedure in order to update the "outdated" version of the table description.

EXECUTION CONDITION

The CDT1 procedure reads the files, which can therefore remain open to on-line use.

From the result of the CDT1 procedure, the CDT2 procedure updates the TD and TV files, which are called 'slave' files. These files must therefore remain closed to on-line use.

18.2. USER INPUT (CDT1)

USER INPUT

.One '*'-type line per user:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 2 !	! 1 !	! '*'	!Line code	!
! 3 !	! 8 !	!uuuuuuuu!	User code	!
! 11 !	! 8 !	!pppppppp!	Password	!

.One 'A'-type line for each selected table:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 2 !	! 1 !	! 'A'	!Line code	!
! 3 !	! 6 !	! tttttt	!Table number	!

When a single 'A'-type line is entered without the TABLE NUMBER, all table descriptions are compared.

18.3. DESCRIPTION OF STEPS (CDT1)

CDT1: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

CHECK OF TRANSACTIONS: PTAD05

.Permanent input files:
- 'Master' table-description file
PAC7TD : DSN=&TDMAST
- Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
- User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
- Comparison request transactions
PAC7MV : DSN=&&CDT1MB

.Output file:
- Validated comparison request transactions
PAC7MX : DSN=&&MX

.Output report:
- Transaction report
PAC7ET

TABLE-DESCRIPTION COMPARISON AND EXTRACTION: PTAD10

.Permanent input files:
- 'Master' table-description file
PAC7TD : DSN=&TDMAST
- Error message file
PAC7TE : DSN=&INDUV..&ROOTT.00TE
- 'Slave' table-description file
PAC7TS : DSN=&TDSLAV

.Input transaction file:
- Validated transactions
PAC7MX : DSN=&&MX

.Output file:
- Comparison result to be used as input of
the CDT2 procedure
PAC7TX : DSN=&XD

.Output report:
- Extraction printout
PAC7ET

18.4. EXECUTION JCL

```

//*****
// * VisualAge Pacbase Pactable 2.5 *
//*****
//*****
// * ----- TABLE-DESCRIPTION COMPARISON ----- *
//*****
// $RADP.CDT1 PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
//      INDUV=$INDUV, INDEX OF PACTABLES FILES *
//      INDSV=$INDSV, INDEX OF VA PAC SYSTEM FILES *
//      INDSN=$INDSN, NON VSAM FILES INDEX *
// *: VSAMCAT=$VCAT, VSAM USER CATALOG *
// *: SYSTCAT=$SCAT, VSAM SYSTEM CATALOG *
//      TDMAST=, MASTER DESCRIPTION *
//      TDSLAV=, SLAVE DESCRIPTION *
//      XD='&&TX', EXTRACTED DESCRIPTION DSN *
//      SPAXD=(TRK,(30,3),RLSE)', EXTRACTED DESCRIPTION SPACE *
//      STEPLIB=$MODB, LOAD-MODULE LIBRARY *
//      SORTLIB=$BIBT, SORT LIBRARY *
//      OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLASS *
//      OUTL=$OUT, OUTPUT CLASS OF REPORTS *
//      UWK=$UWK, WORK UNIT *
//      CYL=(3,1)', SORTWORK SPACE *
//      SPAMB=(TRK,(5,1),RLSE)' REQUEST-FILE SPACE *
//*****
// COPY EXEC PGM=PTU001
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// PAC7MB DD DSN=&CDT1MB,DISP=(,PASS),UNIT=&UWK,
//         DCB=BLKSIZE=1600,SPACE=&SPAMB
// CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
// VERIFY EXEC PGM=IDCAMS
//*****
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// *: DD DSN=&SYSTCAT,DISP=SHR
// SYSPRINT DD SYSOUT=&OUT
// PAC7TD DD DSN=&TDMAST,
//         DISP=SHR
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//         DISP=SHR
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//         DISP=SHR
// PAC7AD DD DSN=&TDSLAV,
//         DISP=SHR
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),
//         DISP=SHR
//         DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),
//         DISP=SHR
//         DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),
//         DISP=SHR
// PTAD05 EXEC PGM=PTAD05
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// SORTLIB DD DSN=&SORTLIB,DISP=SHR
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// *: DD DSN=&SYSTCAT,DISP=SHR
// SYSOUT DD SYSOUT=&OUT
// PAC7ET DD SYSOUT=&OUTL
// PAC7MV DD DSN=&CDT1MB,DISP=(OLD,DELETE)
// PAC7MX DD DSN=&&MX,DISP=(,PASS),UNIT=&UWK,
//         SPACE=&SPAXD,
//         DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
// PAC7TD DD DSN=&TDMAST,
//         DISP=SHR
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,
//         DISP=SHR
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//         DISP=SHR
// SYSOUX DD SYSOUT=&OUT

```

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4

```
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//PTAD10 EXEC PGM=PTAD10
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7ET DD SYSOUT=&OUTL
//PAC7MX DD DSN=&&MX,DISP=(OLD,PASS)
//PAC7TD DD DSN=&TDMAST,
// DISP=SHR
//PAC7TE DD DSN=&INDSV.&ROOTT.00TE,
// DISP=SHR
//PAC7TS DD DSN=&TDSLAV,
// DISP=SHR
//PAC7TX DD DSN=&XD,DISP=(,PASS),UNIT=&UWK,
// SPACE=&SPAXD,
// DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
```

18.5. DESCRIPTION OF STEPS (CDT2)

CDT2: DESCRIPTION OF STEPS

VERIFICATION OF VSAM FILES: IDCAMS

UPDATE OF 'SLAVE' FILES, TABLE-DESCRIPTIONS AND
RECOGNITION OF THE FILE EXTRACTED BY CDT1: PTAD20

.Input files:
- 'Slave' file of table-descriptions
PAC7TD : DSN=&TDSLAV
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE

.Output file:
-File of table-contents associated to the
'slave' table-description file
PAC7TV : DSN=&TVSLAV

.Input transaction file:
-Result extracted from comparison in the
CDT2 procedure
PAC7TX : DSN=&XD

.Output report:
-Update report
PAC7ET

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

18.6. EXECUTION JCL (CDT2)

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * --- UPDATE OF TABLE-DESCRIPTIONS AFTER COMPARISON --- *  
//*****  
// $RADP.CDT2 PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *  
// INDSV='$INDSV', INDEX OF VA PAC SYSTEM FILES *  
// INDSN='$INDSN', NON VSAM FILES INDEX *  
// *: VSAMCAT='$VCAT', VSAM USER CATALOG *  
// *: SYSTCAT='$SCAT', VSAM SYSTEM CATALOG *  
// TDSLAV=, 'SLAVE' DESCRIPTION *  
// TVSLAV=, TABLES LINKED TO SLAVE DESCRIPTIO *  
// XD='&&TX', DSN OF CDT1 EXTRACTED DESCRIPTION *  
// STEPLIB='$MODB', LOAD-MODULE LIBRARY *  
// SORTLIB='$BIBT', SORT LIBRARY *  
// OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLASS *  
// OUTL=$OUT, OUTPUT CLASS OF REPORTS *  
// UWK=$UWK, WORK UNIT *  
// CYL='(3,1)', SORTWORK SPACE *  
//*****  
// VERIFY EXEC PGM=IDCAMS *  
//*****  
// *: STEPCAT DD DSN=&VSAMCAT, DISP=SHR *  
// *: DD DSN=&SYSTCAT, DISP=SHR *  
// SYSPRINT DD SYSOUT=&OUT *  
// PAC7TD DD DSN=&TDSLAV, *  
// DISP=SHR *  
// PAC7TE DD DSN=&INDSV. &ROOTT.00TE, *  
// DISP=SHR *  
// PAC7TV DD DSN=&TVSLAV, *  
// DISP=SHR *  
// SYSIN DD DSN=&INDSN. &ROOTT. &ROOTT.SY(VERIFTD), *  
// DISP=SHR *  
// DD DSN=&INDSN. &ROOTT. &ROOTT.SY(VERIFTE), *  
// DISP=SHR *  
// DD DSN=&INDSN. &ROOTT. &ROOTT.SY(VERIFTV), *  
// DISP=SHR *  
// PTAD20 EXEC PGM=PTAD20 *  
//*****  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR *  
// SORTLIB DD DSN=&SORTLIB, DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT, DISP=SHR *  
// *: DD DSN=&SYSTCAT, DISP=SHR *  
// SYSOUT DD SYSOUT=&OUT *  
// PAC7ET DD SYSOUT=&OUTL *  
// PAC7TD DD DSN=&TDSLAV, *  
// DISP=SHR *  
// PAC7TE DD DSN=&INDSV. &ROOTT.00TE, *  
// DISP=SHR *  
// PAC7TV DD DSN=&TVSLAV, *  
// DISP=SHR *  
// PAC7TX DD DSN=&XD, *  
// DISP=SHR *  
// SYSOUX DD SYSOUT=&OUT *  
// SORTWK01 DD UNIT=&UWK, SPACE=(CYL, &CYL, , CONTIG) *  
// SORTWK02 DD UNIT=&UWK, SPACE=(CYL, &CYL, , CONTIG) *  
// SORTWK03 DD UNIT=&UWK, SPACE=(CYL, &CYL, , CONTIG) *  
// SYSUDUMP DD SYSOUT=&OUT *
```

18.7. TABLE CONTENTS UPDATE (CVTA)

CVTA: COMPARISON AND UPDATING OF TABLE CONTENTS

INTRODUCTION

The CVTA procedure extracts table contents modified on a given date, or between two given dates, and formats them as batch update transactions.

EXECUTION CONDITION

This procedure reads Pactables' files. It can be executed even if the files are open to on-line use.

18.8. USER INPUT (CVTA)

USER INPUT

.One '*'-type line per user:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 2 !	! 1 !	! '*'	!Line code	!
! 3 !	! 8 !	!uuuuuuu!	User code	!
! 11 !	! 8 !	!pppppppp!	Password	!

.One 'A'-type line for each selected table:

!POS.!	!LEN.!	! VALUE	!MEANING	!
! 1 !	! 1 !	! 'S'	!Transaction code	!
! 2 !	! 1 !	! 'A'	!Line code	!
! 3 !	! 6 !	! tttttt	!Table number	!
! 9 !	! 8 !	!DDMMCCYY!	Update date: beginning	!
! 17 !	! 4 !	!	!Not used	!
! 19 !	! 1 !	! '/'	!Delimiter	!
! 20 !	! 1 !	!	!Not used	!
! 21 !	! 8 !	!DDMMCCYY!	Update date: end	!

When a single 'A'-type line is entered without the TABLE NUMBER, all table contents to which the user (*'-line) has access may be extracted.

18.9. DESCRIPTION OF STEPS (CVTA)

CVTA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE-CONTENTS COMPARISON: PTAV10

.Permanent input files:
-Table-description file
PAC7TD : DSN=&TD
-Error-message file
PAC7TE : DSN=&INDSV..&ROOTT.00TE
-Table-contents file
PAC7TV : DSN=&TV
-User-parameter file
PAC7TG : DSN=&INDUV..&ROOTT.00TG

.Input transaction file:
-Comparison requests
PAC7MV : DSN=&&CVTAMB

.Output file:
-Comparison result
PAC7EX : DSN=&&EX

.Output report:
-Transaction report
PAC7ET

EXTRACTION OF UPDATE TRANSACTIONS: PTAV20

.Permanent input file:
-Table-Description file
PAC7TD : DSN=&TD

.Input transaction file:
-Comparison result
PAC7EX : DSN=&&EX

.Output file:
-Update transactions for use as
input of UPTA)
PAC7NU : DSN=&&NU

.Output report:
-Printing of extracted transactions
PAC7ET

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

18.10. EXECUTION JCL (CVTA)

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * ---- TABLE TRANSACTION EXTRACTION ---- *  
//*****  
// $RADP.CVTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *  
//      INDUV=$INDUV, INDEX OF PACTABLES FILES *  
//      INDSV=$INDSV, INDEX OF VA PAC SYSTEM FILES *  
//      INDSN=$INDSN, NON-VSAM FILES INDEX *  
// * : VSAMCAT=$VCAT, VSAM USER CATALOG *  
// * : SYSTCAT=$SCAT, VSAM SYSTEM CATALOG *  
//      TD=, DSN DESCRIPTION *  
//      TV=, TABLES LINKED TO DESCRIPTION *  
//      STEPLIB=$MODB, LOAD-MODULE LIBRARY *  
//      SORTLIB=$BIBT, SORT LIBRARY *  
//      OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLASS *  
//      OUTL=$OUT, OUTPUT CLASS OF REPORTS *  
//      UWK=$UWK, WORK UNIT *  
//      CYL=(3,1), SORTWORK SPACE *  
//      SPAEX=(TRK,(30,3),RLSE), EXTRACTED-TRANSACTION SPACE *  
//      SPAMB=(TRK,(5,1),RLSE) REQUEST-FILE SPACE *  
//*****  
// COPY EXEC PGM=PTU001  
//*****  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// PAC7MB DD DSN=&&CVTAMB, DISP=(,PASS), UNIT=&UWK,  
//      DCB=BLKSIZE=1600, SPACE=&SPAMB  
// CARTE DD DDNAME=SYSIN, DCB=BLKSIZE=80  
// VERIFY EXEC PGM=IDCAMS  
//*****  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSPRINT DD SYSOUT=&OUT  
// PAC7TD DD DSN=&TD,  
//      DISP=SHR  
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,  
//      DISP=SHR  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,  
//      DISP=SHR  
// PAC7TV DD DSN=&TV,  
//      DISP=SHR  
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTD),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTE),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTG),  
//      DISP=SHR  
//      DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFTV),  
//      DISP=SHR  
// PTAV10 EXEC PGM=PTAV10  
//*****  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSOUT DD SYSOUT=&OUT  
// PAC7ET DD SYSOUT=&OUTL  
// PAC7MV DD DSN=&&CVTAMB, DISP=(OLD,DELETE)  
// PAC7EX DD DSN=&&EX, DISP=(,PASS), UNIT=&UWK,  
//      SPACE=&SPAEX,  
//      DCB=(RECFM=FB, LRECL=120, BLKSIZE=2400)  
// PAC7TD DD DSN=&TD,  
//      DISP=SHR  
// PAC7TE DD DSN=&INDSV..&ROOTT.00TE,  
//      DISP=SHR  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG,  
//      DISP=SHR  
// PAC7TV DD DSN=&TV,
```

DISPATCHED TABLE MANAGEMENT (DTM OPTION)
EXECUTION JCL (CVTA)

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```
//          DISP=SHR
//SYSUDUMP DD SYSOUT=&OUT
//PTAV20 EXEC PGM=PTAV20
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//*:          DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7ET DD SYSOUT=&OUTL
//PAC7EX DD DSN=&&EX,DISP=(OLD,DELETE)
//PAC7NU DD DSN=&&NU,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAEX,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//PAC7TD DD DSN=&TD,
//          DISP=SHR
//SYSOUX DD SYSOUT=&OUT
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
```

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19. TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)

19.1. RETRIEVAL FROM REL. 7.3 (R3TA) - INTRODUCTION

7.3 RETRIEVAL (R3TA): INTRODUCTION

The retrieval of existing tables and files, which allows Tables of the 7.3 release to be used in the Pactables 2.5, includes five steps:

- . Application of the 2.5 retrieval procedure (R3TA) to the TD, TV, and TG files of Rel. 7.3, producing a backup (TC) formatted to meet the requirements of Rel. 2.5.

Note:

For this procedure, refer to the description of Retrieval 8.02/1.2 into 2.5, for details on the definition and use of user input.

- . Execution of the 2.5 restoration procedure (RSTA) on the Database, using the backup produced by the preceding step.
- . Assignment, at the Administrator level, of the '*****' (PMTA) Database Manager.
- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the positive sign to those data needing it in the 7.3 release, for the purpose of user programs written in Cobol II.
- . Second execution of the 2.5 restoration procedure (RSTA) on the Database, using the backup produced by the preceding step.

RESULT

Pactables files ready to be used in Release 2.5.

19.2. DESCRIPTION OF STEPS (R3TA)

R3TA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

BACKUP OF THE 7.3 TD FILE: PTAXVD

This step creates a backup of the TD file used in release 7.3.

.Input file:
-7.3 TD file
PAC7TD : DSN=parameter &OLDTD of the procedure

.Output file:
-Backed up 7.3 file
PAC7TC : DSN=&&R3TATC01

7.3 TV FILE BACKUP: PTAXVV

This step creates a backup of the TV file of release 7.3

.Input file:
-7.3 TV file
PAC7TV : DSN=parameter &OLDTV of the procedure

.Output file:
-7.3 backed up file
PAC7TC : DSN=&&R3TATC01

BACKUP OF 7.3 TG FILE: PTAXVG

This step creates a backup of the TG file from Release 7.3.

.Input file:
-7.3 TG file
PAC7TG : DSN=parameter &OLDTG of the procedure

TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
DESCRIPTION OF STEPS (R3TA)

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.Output file:
-7.3 backed up file
PAC7TC : DSN=&&R3TATC01

CONVERSION OF 7.3 BACKUP INTO 2.5 BACKUP: PTAR20

This step creates a backup in 2.5 format from the 7.3 backup file.

.Input file:
-7.3 backup file
PAC7TC : DSN=&&R3TATC01
-User-parameter file
PAC7MB

.Output file:
-Temporary 2.0 backup
PAC7TR : DSN=&&R3TATC02

.Output report:
-Retrieval report
PAC7ET

CATALOGING OF THE 2.0 BACKUP: IEBGENER

This step catalogs the +1 generation of the 2.0 backup if no error was detected during the preceding steps.

.Input file:
-Temporary 2.0 backup
SYSUT1 : DSN=&&R3TATC02

.Output file:
-Cataloged 2.0 backup
SYSUT2 : DSN=&INDUN..&ROOTT.00TC(+1)

TABLE RETRIEVAL (FROM RELEASES 7.x) (R3TA)
EXECUTION JCL (R3TA)

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19.3. EXECUTION JCL (R3TA)

```
//*****
// * VisualAge Pacbase Pactable 2.5 *
//*****
// * --- RETRIEVAL OF 7.3 TABLES --- *
//*****
// $RADP.R3TA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *
// INDUN=$INDUN', NON-VSAM FILES' INDEX *
// *: VSAMCAT='<>', USER VSAM CATALOG *
// STEPLIB=$MODB', LOAD-MODULE LIBRARY *
// OUT=$OUT, OUTPUT CLASS *
// UWK=$UWK, WORK UNIT *
// DSCB=$DSCB', DSCB MODEL FILE *
// VOLS=$SER=$VOLUN', BACKUP VOLUME *
// UNITS=$UNITUN, BACKUP UNIT (DISK OR TAPE) *
// SPATC=(TRK,(150,10))', BACKUP SPACE *
// OLDTD=, TD FILE, REL. 7.3 *
// OLDTG=, TG FILE, REL. 7.3 *
// OLDTV=, TV FILE, REL. 7.3 *
//*****
// COPY EXEC PGM=PTU001
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// PAC7MB DD DSN=&&R3TAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=(TRK,(1))
// CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
// PTAXVD EXEC PGM=PTAXVD
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// PAC7TD DD DSN=&OLDTD,DISP=SHR
// PAC7TC DD DSN=&&R3TATC01,DISP=(,PASS),
// UNIT=&UWK,SPACE=&SPATC,
// DCB=(&DSCB,RECFM=VB,LRECL=1061,BLKSIZE=10614)
// SYSOUT DD SYSOUT=&OUT
// SYSUDUMP DD SYSOUT=&OUT
// PTAXVV EXEC PGM=PTAXVV
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// PAC7TV DD DSN=&OLDTV,DISP=SHR
// PAC7TC DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
// SYSOUT DD SYSOUT=&OUT
// SYSUDUMP DD SYSOUT=&OUT
// PTAXVG EXEC PGM=PTAXVG
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// PAC7TG DD DSN=&OLDTG,DISP=SHR
// PAC7TC DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
// SYSOUT DD SYSOUT=&OUT
// SYSUDUMP DD SYSOUT=&OUT
// PTAR20 EXEC PGM=PTAR20
//*****
// STEPLIB DD DSN=&STEPLIB,DISP=SHR
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR
// SYSOUT DD SYSOUT=&OUT
// PAC7MB DD DSN=&&R3TAMB,DISP=SHR
// PAC7TC DD DSN=&&R3TATC01,
// DISP=SHR
// PAC7TR DD DSN=&&R3TATC02,UNIT=SYSDA,
// DISP=(,PASS),SPACE=&SPATC,
// DCB=(RECFM=VB,LRECL=1067,BLKSIZE=10674)
// PAC7ET DD SYSOUT=&OUT
// SYSOUT DD SYSOUT=&OUT
// SYSUDUMP DD SYSOUT=&OUT
// IEBGENER EXEC PGM=IEBGENER,COND=((12,LE,PTAR20),
// (0,NE,PTAXVD),(0,NE,PTAXVG),(0,NE,PTAXVV))
```

TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
EXECUTION JCL (R3TA)

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```
//*****  
//SYSPRINT DD SYSOUT=&OUT  
//SYSIN DD DUMMY  
//SYSUT1 DD DSN=&&R3TATC02,DISP=SHR  
//SYSUT2 DD DSN=&INDUN..&ROOTT.00TC(+1),  
// UNIT=&UNITS,VOL=&VOLS,  
// DISP=(,CATLG,DELETE),SPACE=&SPATC,  
// DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
```

TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
7.3 RETRIEVAL: COMPLETE EXECUTION JCL

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19.4. 7.3 RETRIEVAL: COMPLETE EXECUTION JCL

```
//$PRFJ.R73A JOB ($CCPT),'7.3 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//R3TA EXEC $RADP.R3TA,  
// OLDTD=---.---.---, <----- TD 7.3  
// OLDTV=---.---.---, <----- TV 7.3  
// OLDTG=---.---.--- <----- TG 7.3  
//COPY.CARTE DD *  
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/*  
//$PRFJ.R73B JOB ($CCPT),'7.3 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20A EXEC $RADP.RSTA  
//$PRFJ.R73C JOB ($CCPT),'7.3 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//PMTA20 EXEC $RADP.PMTA  
*****TASUPER 3  
/*  
//$PRFJ.R73D JOB ($CCPT),'7.3 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RETA20 EXEC $RADP.RETA  
*****SUPER  
GA  
/*  
//$PRFJ.R73E JOB ($CCPT),'7.3 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20B EXEC $RADP.RSTA
```

19.5. RETRIEVAL 7.2 (R2TA) - INTRODUCTION

INTRODUCTION

The retrieval of existing tables and files, which allows Tables of the 7.2 release to be used in the new 2.5 release, includes five steps:

. Conversion of the TG file, Rel. 7.2, into a 7.3 TG file (R2TA procedure); creation of a backup (TA) with this file as well as with the 7.2 TD and TV files, so as to make up a backup in the 7.3 format. This 7.3 backup is then converted into a 2.5 backup.

NOTE: For this procedure, refer to the description of Retrieval 8.02 - 1.2 into 2.5, for details on the definition and use of user input.

- . Execution of the 2.5 restoration procedure (RSTA) on the Database, using the backup produced by the preceding step.
- . Assignment, at the Administrator level, of the '*****' (PMTA) Database Manager.
- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the positive sign to those data needing it in the 7.2 release, for the purpose of user programs written in Cobol II.
- . Second execution of the 2.5 restoration procedure (RSTA) on the Database, using the backup produced by the preceding step.

RESULT

Pactables files ready to be used in Release 2.5.

19.6. DESCRIPTION OF STEPS (R2TA)

R2TA: DESCRIPTION OF STEPS

TRANSACTION RECOGNITION: PTU001

ALLOCATION OF THE TG FILE: IDCAMS

This step allocates the TG file:
PAC7TG : DSN=&INDUV..ROOTT.00TG

CREATION OF A SEQUENTIAL TG FILE: IDCAMS

.Input file:
-TG file, Rel. 7.2
PAC7IG : DSN=parameter &OLDTG of the procedure

.Output file:
-Sequential copy of the 7.2 TG file
PAC7TG : DSN=&&TG

CONVERSION OF THE TG FILE FROM 7.2 TO 7.3: PTARTG

.Input file:
-Sequential 7.2 TG file
PAC7AG : DSN=&&TG

.Output file:
-7.3 TG file
PAC7TG : DSN=&INDUV..&ROOTT.00TG
-Conversion report
PAC7ET

.Input-output file:
-7.2 TD file
PAC7TD : DSN=parameter &OLDTD of the procedure

BACKUP OF TD FILE, REL. 7.3: PTAXVD

This step creates a backup of the 7.3 TD file.

.Input file:
-7.3 TD file
PAC7TD : DSN=parameter &OLDTD of the procedure

.Output file:
-7.3 backup file
PAC7TC : DSN=&&R2TATC01

TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
DESCRIPTION OF STEPS (R2TA)

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BACKUP OF TV FILE, REL. 7.3: PTAXVV

This step creates a backup of the 7.3 TV file.

.Input file:
-7.2 TV file
PAC7TV : DSN=parameter &OLDTV of the procedure

.Output file:
-7.3 backup file
PAC7TC : DSN=&&R2TATC01

BACKUP OF TG FILE, REL. 7.3: PTAXVG

This step creates a backup of the 7.3 TG file.

.Input file:
-7.2 TG file
PAC7TG : DSN=&INDUV..ROOTT.00TG

.Output file:
-7.3 backup file
PAC7TC : DSN=&&R2TATC01

CONVERSION OF 7.3 BACKUP TO 2.5 BACKUP: PTAR20

This step creates a 2.5 backup from the 7.3 backup.

.Input file:
-7.3 backup file
PAC7TC : DSN=&&R2TATC01
-User-parameter file
PAC7MB

.Output file:
-Temporary 2.5 backup
PAC7TR : DSN=&&R2TATC02

.Output report:
-Conversion report
PAC7ET

CATALOGING OF THE 2.5 BACKUP: IEBGENER

This step catalogs the +1 generation of the 2.5 backup if no error was detected during the preceding steps.

.Input file:
-Temporary 2.5 backup
SYSUT1 : DSN=&&R2TATC02

.Output file:
-Cataloged 2.5 backup
SYSUT2 : DSN=&INDUN..&ROOTT.00TC(+1)

19.7. EXECUTION JCL (R2TA)

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- RETRIEVAL OF 7.2 TABLES --- *  
//*****  
// $RADP.R2TA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *  
// INDUN=$INDUN, NON-VSAM USER FILES' INDEX *  
// INDUV=$INDUV, VSAM USER FILES' INDEX *  
// INDSN=$INDSN, NON-VSAM SYSTEM FILES' INDEX *  
// *: VSAMCAT='<>', USER VSAM CATALOG *  
// STEPLIB=$MODB, LOAD-MODULE LIBRARY *  
// OUT=$OUT, OUTPUT CLASS *  
// UWK=$UWK, WORK UNIT *  
// DSCB=$DSCB, DSCB MODEL FILE *  
// VOLS=$SER=$VOLUN, BACKUP VOLUME *  
// UNITS=$UNITUN, BACKUP UNIT (DISK OR TAPE) *  
// SPATC=(TRK,(150,10)), BACKUP SPACE *  
// OLDTD, TD FILE, REL. 7.2 *  
// OLDTG, TG FILE, REL. 7.2 *  
// OLDTV, TV FILE, REL. 7.2 *  
//*****  
// COPY EXEC PGM=PTU001 *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// PAC7MB DD DSN=&&R2TAMB,DISP=(,PASS),UNIT=&UWK, *  
// DCB=BLKSIZE=1600,SPACE=(TRK,(1)) *  
// CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80 *  
// DEFINE EXEC PGM=IDCAMS *  
//*****  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// SYSPRINT DD SYSOUT=&OUT *  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG, *  
// DISP=SHR *  
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(DF&ROOTT.00TG), *  
// DISP=SHR *  
// REPRO EXEC PGM=IDCAMS *  
//*****  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// SYSPRINT DD SYSOUT=&OUT *  
// PAC7IG DD DSN=&OLDTG, *  
// DISP=SHR *  
// PAC7TG DD DSN=&&TG,DISP=(,PASS),UNIT=&UWK, *  
// SPACE=(TRK,60,RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600) *  
// SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(REPROTG), *  
// DISP=SHR *  
// PTARTG EXEC PGM=PTARTG *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// SYSOUT DD SYSOUT=&OUT *  
// PAC7ET DD SYSOUT=&OUT *  
// PAC7AG DD DSN=&&TG,DISP=(OLD,PASS) *  
// PAC7TG DD DSN=&INDUV..&ROOTT.00TG, *  
// DISP=SHR *  
// PAC7TD DD DSN=&OLDTG,DISP=SHR *  
// SYSUDUMP DD SYSOUT=&OUT *  
// PTAXVD EXEC PGM=PTAXVD *  
//*****  
// STEPLIB DD DSN=&STEPLIB,DISP=SHR *  
// *: STEPCAT DD DSN=&VSAMCAT,DISP=SHR *  
// PAC7TD DD DSN=&OLDTG,DISP=SHR *  
// PAC7TC DD DSN=&&R2TATC01,DISP=(,PASS), *  
// UNIT=&UWK,SPACE=&SPATC, *  
// DCB=(&DSCB,RECFM=VB,LRECL=1061,BLKSIZE=10614) *  
// SYSOUT DD SYSOUT=&OUT *  
// SYSUDUMP DD SYSOUT=&OUT *  
// PTAXVV EXEC PGM=PTAXVV *
```

TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
 EXECUTION JCL (R2TA)

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```
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//PAC7TV DD DSN=&OLDTV,DISP=SHR
//PAC7TC DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTAXVG EXEC PGM=PTAXVG
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//PAC7TG DD DSN=&INDUV..&ROOTT.00TG,
//      DISP=SHR
//PAC7TC DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PTAR20 EXEC PGM=PTAR20
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7MB DD DSN=&&R2TAMB,DISP=SHR
//PAC7TC DD DSN=&&R2TATC01,
//      DISP=SHR
//PAC7TR DD DSN=&&R2TATC02,UNIT=SYSDA,
//      DISP=(,PASS),SPACE=&SPATC,
//      DCB=(RECFM=VB,LRECL=1067,BLKSIZE=10674)
//PAC7ET DD SYSOUT=&OUT
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//IEBGENER EXEC PGM=IEBGENER,COND=((12,LE,PTAR20),
//      (0,NE,PTARTG),(0,NE,PTAXVD),(0,NE,PTAXVG),(0,NE,PTAXVV))
//*****
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DUMMY
//SYSUT1 DD DSN=&&R2TATC02,DISP=SHR
//SYSUT2 DD DSN=&INDUN..&ROOTT.00TC(+1),
//      UNIT=&UNITS,VOL=&VOLS,
//      DISP=(,CATLG,DELETE),SPACE=&SPATC,
//      DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
```


TABLE RETRIEVAL (FROM RELEASES 7.x) (RxTA)
7.2 RETRIEVAL: COMPLETE EXECUTION JCL

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19.8. 7.2 RETRIEVAL: COMPLETE EXECUTION JCL

```
//$PRFJ.R72A JOB ($CCPT),'7.2 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//R2TA EXEC $RADP.R2TA,  
// OLDTD=---.---.---, <-- TD 7.2  
// OLDTV=---.---.---, <-- TV 7.2  
// OLDTG=---.---.--- <-- TV 7.2  
//COPY.CARTE DD *  
61  
/*  
//$PRFJ.R72B JOB ($CCPT),'7.2 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20A EXEC $RADP.RSTA  
//$PRFJ.R72C JOB ($CCPT),'7.2 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//PMTA20 EXEC $RADP.PMTA  
*****TASUPER 3  
/*  
//$PRFJ.R72D JOB ($CCPT),'7.2 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RETA20 EXEC $RADP.RETA  
*****SUPER  
GA  
/*  
//$PRFJ.R72E JOB ($CCPT),'7.2 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20B EXEC $RADP.RSTA
```

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TABLE RETRIEVAL FROM RELEASES 8.xx OR 1.2

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20. TABLE RETRIEVAL FROM RELEASES 8.xx OR 1.2

20.1. INTRODUCTION

RETRIEVAL OF PACTABLES 8.xx OR 1.2 (RTTA) : INTRODUCTION

The RTTA procedure retrieves Pactables files from releases 8.xx and 1.2, making it possible to use the resulting files in Pactables Rel. 2.5.

It creates a Pactables database in which all information of the 'DATE' type used for the management of the database's files are converted from the DDMMYY format into the DDMCCYY format, or from the YYMMDD format into the CCYYMMDD format, so as to integrate the century mark.

Depending on the years present in dates in the 8.xx or 1.2 release, the century digits are added by reference to a 'pivot' year specified on a parameter line provided as input to the procedure.

The procedure's test job is delivered with the default 'pivot' year '61' (which can be changed). This means that, for a date in Rel. 1.2 whose year is less than '61', the value '20' is assigned to the century. If the year is higher than 61, the value assigned to the century is '19'.

The retrieval procedure processes only those internal dates useful to the management of the Pactables Database files, and not those belonging to user-specific data.

The retrieval of Pactables 8.xx or 1.2 includes the following steps:

- . Backup in 8.xx or 1.2 format (SVTA procedure) of the TD, TV, and TG files of Release 8.xx or 1.2;
- . Retrieval in 2.5 format (RTTA procedure) of the backup produced by the preceding step, so as to produce a 2.5 backup file;
- . Assignment, at the Administrator level, of the '*****' (PMTA) Database Manager.
- . Restoration in the 2.5 format (RSTA procedure) of the database, from the backup produced by the preceding step;
- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the positive sign to those data needing it in the former release, for the purpose of user programs written in Cobol II;
- . Second execution of the 2.5 restoration procedure (RSTA) on the Database, using the backup produced by the preceding step.

RESULT

Pactables files ready to be used in Release 2.5.

20.2. RTTA : ENTREES UTILISATEUR

RTTA: USER INPUT

. Parameter line defining the 'pivot' year for century assignment.

!Pos.!	Len.!	Value	! Meaning
! 1 !	! 2 !	! Number	! Pivot year
! !	! !	! other	! !
! !	! !	! than '00'!	! !

20.3. RTTA: DESCRIPTION OF STEPS

RTTA: DESCRIPTION OF STEPS

BACKUP RETRIEVAL: PTAR20

.Permanent input file:
-1.2 backup file
PAC7TC : DSN=INDUN..&ROOTT.00TC(0)

.Permanent output file:
-Temporary backup, rel. 2.0
PAC7TR : DSN=&&RTTATC

.Input file:
-user parameter card
PAC7MB

.Output report:
-Retrieval report
PAC7ET

CATALOGING OF THE 2.5 BACKUP: IEBGENER

.Input file:
-Temporary 2.5 backup
SYSUT1 : DSN=&&RTTATC

.Output file:
-Cataloged 2.5 backup
SYSUT2 : DSN=&INDUN..&ROOTT.00TC(+1)

20.4. RTTA: EXECUTION JCL

```
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * --- BACKUP RETRIEVAL FOR RELEASE 2.0 --- *  
//*****  
// $RADP.RTTA PROC ROOTT=$ROOTT, PACTABLES SYSTEM ROOT *  
// INDUN='$INDUN', NON-VSAM FILES' INDEX *  
// * : VSAMCAT='<>', USER VSAM CATALOG *  
// STEPLIB='$MODB', LOAD-MODULE LIBRARY *  
// OUT=$OUT, OUTPUT CLASS *  
// DSCB='$DSCB', DSCB MODEL FILE *  
// VOLS='$SER=$VOLUN', BACKUP VOLUME *  
// UNITS=$UNITUN, BACKUP UNIT (DISK OR TAPE) *  
// SPATC='(TRK,(150,10))' BACKUP SPACE *  
//*****  
//PTAR20 EXEC PGM=PTAR20  
//*****  
//STEPLIB DD DSN=&STEPLIB,DISP=SHR  
// * :STEPCAT DD DSN=&VSAMCAT,DISP=SHR  
//SYSOUT DD SYSOUT=&OUT  
//PAC7MB DD DUMMY  
//PAC7TC DD DSN=&INDUN..&ROOTT.00TC(0),  
// DISP=SHR  
//PAC7TR DD DSN=&&RTTATC,UNIT=SYSDA,  
// DISP=(,PASS),SPACE=&SPATC,  
// DCB=(RECFM=VB,LRECL=1067,BLKSIZE=10674)  
//PAC7ET DD SYSOUT=&OUT  
//SYSOUT DD SYSOUT=&OUT  
//SYSUDUMP DD SYSOUT=&OUT  
//IEBGENER EXEC PGM=IEBGENER,COND=(12,LE,PTAR20)  
//*****  
//SYSPRINT DD SYSOUT=&OUT  
//SYSIN DD DUMMY  
//SYSUT1 DD DSN=&&RTTATC,DISP=SHR  
//SYSUT2 DD DSN=&INDUN..&ROOTT.00TC(+1),  
// UNIT=&UNITS,VOL=&VOLS,  
// DISP=(,CATLG,DELETE),SPACE=&SPATC,  
// DCB=(&DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)
```

20.5. COMPLETE RETRIEVAL JCL

```
//$PRFJ.TTA JOB ($CCPT),'2.5',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RTTA EXEC $RADP.RTTA  
/* PARAMETER LINE SPECIFYING THE PIVOT YEAR  
/* DEFAULT VALUE: 61  
//PTAR20.PAC7MB DD *  
61  
/*  
/* 1.2 OR 8.02 BACKUP  
/* DEFAULT: GENERATION 0 OF TC'S DATA GROUP  
//PTAR20.PAC7TC DD DSN=---.---.---,DISP=SHR  
/* 2.0 BACKUP  
/* DEFAULT: GENERATION +1 OF TC'S DATA GROUP  
//IEBGENER.SYSUT2 DD DSN=---.---.---,DISP=SHR  
//$PRFJ.TTAB JOB ($CCPT),'2.5 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20A EXEC $RADP.RSTA  
//$PRFJ.TTAC JOB ($CCPT),'2.5 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//PMTA20 EXEC $RADP.PMTA  
*****TASUPER 3  
/*  
//$PRFJ.TTAD JOB ($CCPT),'2.5 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RETA20 EXEC $RADP.RETA  
*****SUPER  
GA  
/*  
//$PRFJ.TTAE JOB ($CCPT),'2.5 ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//RSTA20B EXEC $RADP.RSTA  
$ROOTT
```

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21. COMPATIBILITY BETWEEN PACTABLES AND VA PAC

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21.1. COMPATIBILITY BETWEEN PACTABLES 2.5 AND VA PAC 1.6

COMPATIBILITY BETWEEN PACTABLES 2.5 and VA Pac 1.6

If you use Pactables 2.5 version and generate table descriptions of VA Pac from version 1.6 onwards (or from a previous version), you need using the GETA, GETD, and GETI procedures that are supplied with the 2.5 Pactables installation medium, instead of the GETA, GETD, AND GETI procedures supplied with Va Pac as they are not compatible with Pactables 2.5.

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22. INSTALLATION

22.1. INTRODUCTION

PACTABLES INSTALLATION: INTRODUCTION

The installation procedure includes three phases:

- . Preparation of the installation,
- . Installation,
- . On-line and batch tests.

An installation tape including French and English versions is required. To select a version, enter the parameter required (===SELL). The whole installation process is described in this chapter.

Before proceeding with the installation, it is important that the user should be familiar with the technical characteristics of the Pactables function described in this manual in order to prepare the necessary environment (disk space, VSAM catalog and space, on-line options, etc.).

Then you can start installing Pactables. Follow these steps:

PREPARATION

Retrieval of the initial JCL from the tape, and execution of this JCL:

- . Backup of installation tape,
- . Copy of a complete JCL processing module,
- . Retrieval of the Pactables complete installation and operation JCL.

INSTALLATION

See Subchapter 'Installation Process'.

TESTS

- . On-line tests,
- . Tests of the batch procedures.

22.2. INSTALLATION TAPE

INSTALLATION TAPE

The installation tape (6,250 BPI, Standard labels) includes the following files:

RANK	LABEL	LRECL	BLOCK	CONTENTS
1	INST.JCL	80	3440	Initial installation JCL.
2	INST.MOD		6144	MM1JCL load module JCL preparation utility.
3	PACT.JCL	80	3440	Pactables operation and installation JCL
4	PAC.TE	90	1800	Pactables error mes. system file
5	PACT.MBR8		6144	Batch load modules
6	PACT.MTR8		6144	On-line load modules
7	PACT.MBR8C1		6144	COBOL/VS batch and on-line routines
8	PACB.MBR8		6144	Tables generation load-modules
9	PACT.TCFRA	1067 (VB)	10674	Test and User files backup (French)
10	PACT.TCENG	1067 (VB)	10674	Test and User files backup (English)
11	PACT.TB	1136 (VB)	11364	Working file for TUF-TP facility
12	PACT.MacT	80	32000	Macro-structures libraries for TUF-TP facility

22.3. INITIAL JCL

INSTALLATION PREPARATION

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

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

This PDS must have the following characteristics:

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

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

INITIAL JCL

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

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

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

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

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

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

//SYSUT2 DD DSN= <--- recipient file for the complete installation
and operations JCL.
This file may be either a member of the PDS initially designed to store
all the JCLs, or a sequential file of your choice.

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

KEEP THIS MM1JCL OUTPUT: YOU MAY NEED IT FOR
REINSTALLATIONS.

INSTALLATION
INITIAL JCL

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```

$CO**** Pactables 2.5 CICS MVS $VV $DATE *****
//PACBASE0 JOB (---), 'TAPE', CLASS=D, MSGCLASS=A
//ALLOC EXEC PGM=IEHINITT
//TCGI DD DISP=SHR, UNIT=(3480, , DEFER), VOL=(, RETAIN, SER=$BDECGI)
//TINST DD DISP=SHR, UNIT=(3480, , DEFER), VOL=(, RETAIN, SER=-----)
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
TINST INITT SER=-----, OWNER='-----', DISP=REWIND
/*
//PACCOP PROC INDEX='$INPRO', NAME=XXX, LAB=N
//GENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=&INDEX..&NAME, DISP=SHR,
// VOL=(, RETAIN, REF=*.ALLOC.TCGI), LABEL=&LAB
//SYSUT2 DD DSN=&INDEX..&NAME, DISP=(, KEEP),
// VOL=(, RETAIN, REF=*.ALLOC.TINST), LABEL=&LAB,
// DCB=*.SYSUT1
// PEND
//STEP1 EXEC PACCOP, LAB=01, NAME=JCL, INDEX=INST
//STEP2 EXEC PACCOP, LAB=02, NAME=MOD, INDEX=INST
//STEP3 EXEC PACCOP, LAB=03, NAME=JCL, INDEX=PACT
//STEP4 EXEC PACCOP, LAB=04, NAME=TE, INDEX=PACT
//STEP5 EXEC PACCOP, LAB=05, NAME=MBR8, INDEX=PACT
//STEP6 EXEC PACCOP, LAB=06, NAME=MTR8, INDEX=PACT
//STEP7 EXEC PACCOP, LAB=07, NAME=MBR8C1, INDEX=PACT
//STEP8 EXEC PACCOP, LAB=08, NAME=MBR8, INDEX=PACB
//STEP9 EXEC PACCOP, LAB=09, NAME=TCFRA, INDEX=PACT
//STEP10 EXEC PACCOP, LAB=10, NAME=TCENG, INDEX=PACT
//STEP11 EXEC PACCOP, LAB=11, NAME=TB, INDEX=PACT
//STEP12 EXEC PACCOP, LAB=12, NAME=MACT, INDEX=PACT
//PACBASE1 JOB (---), 'MMLJCL', CLASS=D, MSGCLASS=A
//COPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//SYSUT3 DD UNIT=SYSDA, SPACE=(TRK,10)
//SYSUT4 DD UNIT=SYSDA, SPACE=(TRK,10)
//IM DD DISP=OLD, UNIT=3480, VOL=(, RETAIN, SER=-----),
// DSN=INST.MOD, LABEL=2
//OM DD DISP=SHR, DSN=----.----.----
//SYSIN DD *
C I=((IM,R)), O=OM
/*
//PACBASE2 JOB (---), 'JCL INSTALLATION', CLASS=D, MSGCLASS=A
//MMLJCL EXEC PGM=MMLJCL
//STEPLIB DD DISP=SHR, DSN=----.----.----
//SYSOUT DD SYSOUT=A
//SYSUT1 DD DSN=PACT.JCL, DISP=OLD,
// UNIT=3480, VOL=(, RETAIN, SER=-----), LABEL=3
//SYSUT3 DD UNIT=SYSDA, SPACE=(CYL,(5,2)), DCB=BLKSIZE=4160
//SYSUT4 DD UNIT=SYSDA, SPACE=(CYL,(5,2)), DCB=BLKSIZE=4160
//SYSUT8 DD DUMMY, DCB=BLKSIZE=1370
//SYSUT9 DD DUMMY, DCB=BLKSIZE=1370
//*****
/* --- CREATION DU JCL D'INSTALLATION PAR L'UTILITAIRE 'MMLJCL' --- *
//*****
/*
/* .MODIFIER LA LISTE DES COMMANDES FOURNIES EN PRECISANT LES *
/* VARIANTES D'INSTALLATION (S'IL Y EN A), EN DEMANDANT SI *
/* NECESSAIRE LA SELECTION DE PORTIONS DE JCL D'INSTALLATION *
/* (MODULES DE JCL), EN DONNANT DES VALEURS APPROPRIEES AUX *
/* PARAMETRES D'INSTALLATION, ET EN PRECISANT EVENTUELLEMENT *
/* DES LIGNES A AJOUTER EN TETE OU EN FIN DE CHAQUE MODULE *
/* DE JCL. *
//*****
//*****
/* --- CREATION OF INSTALLATION JCL THROUGH PROGRAM 'MMLJCL' --- *
//*****
/* .MODIFY THE LIST OF THE SUPPLIED COMMANDS BY ENTERING *
/* THE INSTALLATION VARIANTS (IF ANY), BY ASKING, IF *
/* NECESSARY, A SELECTION OF PARTS OF INSTALLATION JCL *
/* (JCL MODULES), BY GIVING THE APPROPRIATE VALUES TO THE *
/* INSTALLATION PARAMETERS, AND BY SPECIFYING (EVENTUALLY) *
/* THE LINES TO BE ADDED AT THE BEGINNING OR AT THE END OF *

```

```
//*          EACH JCL MODULE.          *
//*          *                          *
//*****
//SYSPRM DD *
*
*
//SYSUT2 DD DSN=----- .MEMBRE DE PDS OU FICHER SEQUENTIEL
//*          RECEVANT LE JCL (LRECL=80)
//*          .PDS MEMBER OR SEQUENTIAL FILE
//*          RECEIVING THE JCL (LRECL=80)
//SYSIN DD *
===SELL <> .LANGUAGE SELECTION (FRA OU ENG)
===SELV SEC .INTERFACE SYSTEME DE SECURITE
           .SECURITY SYSTEM INTERFACE
===SELV DTM .GESTIONNAIRE TABLES REPARTIES
           .DISPATCHED TABLES
===PRM PRFJ=TAB .JOB NAMES PREFIXES (3 CHARACTERS) )
           .JOB NAMES PREFIXES (3 CHARACTERS)
===PRM CCPT=<> .CODE COMPTABLE DES JOBS (CARTE JOB)
           .JOB ACCOUNTING CODES (JOB CARDS)
===PRM CLASSJ=1 .CLASSE D'EXECUTION JOBS(CARTE JOB)
           .JOB EXECUTION CLASS (JOB CARDS)
===PRM MSGCL=A .CLASSE DE SORTIE DU JCL (MSGCLASS)
           .JCL OUTPUT CLASS (MSGCLASS)
===PRM UTAPE=TAPE .UNIT BANDE
           .TAPE UNIT
===PRM TAPEI=<> .NOM DE LA BANDE D'INSTALLATION
           .NAME OF THE INSTALLATION TAPE
===PRM OUT=A .CLASSE DE SYSOUT DANS LES JOBS
           .JOB SYSOUT CLASS
===PRM INDSV='EXP.TAB25' .INDEX FICHIERS Pactables VSAM
           .PACTABLES SYSTEM VSAM FILES' INDEX
===PRM INDUV='CICS.TAB25' .INDEX FICHIERS UTILISATEUR TABLES VSAM
           .PACTABLES USER VSAM FILES' INDEX
===PRM INDSN='EXP.TAB25' .INDEX FICHIERS Pactables NON VSAM
           .PACTABLES SYST. NON-VSAM FILES' INDEX
===PRM INDUN='PAC.T25' .INDEX FICHIERS UTILISATEUR TABLES NON VSAM
           .Pactable USER NON-VSAM FILES' INDEX
===PRM ROOTT='PM' .RADICAL Pactables(2 CARACTERES)
           .ROOT OF Pactable SYSTEM (2 CHARACTER S)
===PRM RADP='PT25' .PREFIXE DES NOMS DE PROCEDURES CATALOGUEES
           .PREFIX OF CATALOGED PROCEDURE NAMES
===PRM VOLSV=<> .VOLUME FICH. Pactable SYSTEME VSAM
           .VOL. OF Pactables SYSTEM VSAM FILES
===PRM VOLSN=<> .VOLUME FICH. Pactables SYSTEME NON VSAM
           .VOL. OF Pactable SYSTEM NON-VSAM FILES
===PRM VOLUV=<> .VOLUME FICH. VA Pac UTILISATEUR TABLEVSAM
           .VOL. OF VA Pac USER VSAM FILES
===PRM VOLUN=<> .VOLUME FICH. VA Pac UTILIS. TABLE NONVSAM
           .VOL. OF Pactable USER NON-VSAM FILES
===PRM SCAT=<> .CATALOGUE VSAM FICH. Pactables SYSTEME
           .VSAM CATALOG OF Pactable SYSTEM FILE
===PRM VCAT=<> .CATALOGUE VSAM FICH. Pactables UTILIS.
           .CATALOG OF Pactable USER VSAM FILES
===PRM RUS=REUSE .DEFINE FICHIERS VSAM REUSE OU UNIQUE
           .REUSE OR UNIQUE FOR VSAM FILES DEFINE
===PRM UWK=SYSDA .UNITE DE TRAVAIL
           .WORK UNIT
===PRM UNITSN=SYSDA .UNIT FICH.PERMANENTS Pactables non VSA
           .NON VSAM Pactable SYSTEM FILES UNIT
===PRM UNITUN=SYSDA .UNIT FICH.PERMANENTS UTILI. TABLES NONVSAM
           .NON-VSAM TABLE USER PERM. FILES UNIT
===PRM DSCB='PAC.DSCB' .NOM DE FICHER DSCB MODELE
           .DSCB MODEL FILE NAME
===PRM MODB='PAC.B25.MBR8' .BIBLI.BATCH Pactables
           .Pactable BATCH LIBRARY
===PRM MODT='PAC.T25.MTR8' .BIBLI.TP Pactables
           .Pactable ON-LINE LIBRARY
===PRM MODV='PAC.T25.MBR8C1' .BIBLI. Pactables MODULES COBOL/V
           .COBOL/V
S ROUTINE BACTH/ON-LINE LIBRARY
===PRM MACT='PAC.T25.MACT' .BIBLI. MACROS-STRUCTURES TUF-TP
           .TUF-TP MACROS-STRUCTURES LIBRARY
===PRM BIBP='SYS1.PROCLIB' .BIBLIOTHEQUE DES PROCEDURES
           .PROCEDURE LIBRARY
```



```
===PRM BIBT='SYS1.SORTLIB' .BIBLIOTHEQUE DE TRI  
 .SORT LIBRARY  
===PRM CSDL='CICS311.LOADLIB' .DSN STEPLIB DFHCSDUP (SI RDO)  
===PRM DFHCSD='PAC.DFHCSD' .DSN CSD PACTABLE (SI RDO)  
 .VA PAC CSD DSN (IF RDO)  
===PRM LIST=<> .NOM DE "LIST" RDO (SI RDO)  
 .RDO 'LIST' NAME (IF RDO)  
===PRM GROUP='PACTABLE' .NOM DE "GROUP" RDO (SI RDO)  
 .RDO 'GROUP' NAME (IF RDO)  
===PRM ROOT='PB' .RADICAL VA Pac  
 .VA Pac ROOT CODE  
===PRM FILE='25' .NUMERO DE BASE PHYSIQUE VA Pac  
 .NUMBER OF THE VA Pac DATABASE  
===PRM INDSVX='EXP.PAC25' .INDEX FICHIERS VA Pac VSAM  
 .INDEX OF VSAM VA Pac FILES  
===PRM INDUVX='CICS.PAC25' .INDEX FICHIERS UTILISATEUR VA Pac VSAM  
 .INDEX OF USERS VA Pac FILES  
===PRM INDSNX='EXP.PAC25' .INDEX FICHIERS VA Pac NON VSAM  
 .INDEX OF USERS NON VSAM VA Pac FILES  
===PRM TABTDF='EXP.TAB25' .DSN FICHER DESCRIPTIFS TABLES  
 .DSN OF TABLES DESCRIPTION FILE  
  
===BEGMOD  
./ ADD NAME=$MODULE  
/*
```

22.4. COMPLETE JCL INSTALLATION

COMPLETE JCL INSTALLATION

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

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

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

USER INPUT

Refer to the following paragraphs:

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

OUTPUT RESULT: COMPLETE JCL

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

Two types of operations are to be performed on the complete JCL:

1. Global modifications (if necessary):

Adaptations can be performed on all the JCLs.

VSAM catalogues are entered as comments in the installation JCL:

```
-In DELETE/DEFINES, as:      /*: CATALOG ($VCAT) */  
                        or:      /*: CATALOG ($SCAT) */  
-In JCL STEPCATS as:        /*: STEPCAT DD  
                        and/or:    /*: DD  
-In procedure parameters as: /*: VSAMCAT='$VCAT'  
                        or: /*: SYSTCAT='$SCAT'
```

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

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

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

Large files blockage criteria can also be changed. Refer to the paragraph 'Note on file Csize/Blksize' (VA PAC ONLY).

CAUTION:

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

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

2. JCL splitting

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

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

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

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

PRINTED OUTPUT

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

NOTE:

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

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

CODING OF MMIJCL COMMANDS

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

===SELM mmmmm1 mmmmm2Selection of JCL modules
 mmmm1 = name of JCL module
 mmmm2 = name of JCL module
 etc.
 The absence of a ===SELM line
 involves the selection of all
 JCL modules.

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

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

===BEGMOD Insertion of lines at beginning of module.
....1)
.....) lines to insert before each module
....n)

===ENDMOD Insertion of lines at end of module.
....1)
.....) lines to insert after each module
....n)

22.5. DEFAULT INSTALLATION SETTINGS

DEFAULT INSTALLATION OPTIONS

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

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

.PARAMETERS (===PRM):

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

.MODULES (===SELM):

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

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

A line: ./ ADD NAME=\$MODULE

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

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

22.6. JCL VARIANTS

TABLE OF VARIANTS: ==SELV vvvv .Comment

! vvvv	! MEANING	! TYPE	!
! SEC	! Security system interface ! (IBM MVS only)	! Option	!
! DTM	! Dispatched Table Manager	! -	!

22.7. JCL MODULES

TABLE OF JCL MODULES: ===SELM mmmmm1 mmmmm2 ... mmmmmn

! mmmmm	! CONTENT	! NATURE
! TCICSD	! CICS/ESA V3: CSD update job	! OS JCL
!	! Other CICS:	!
! TI1SY	! Loading of file-parameter's PDS	! OS JCL
! TI2PGM	! Allocation and loading of batch (MBR8),	! OS JCL
!	! on-line (MTR8), and COBOL/VS routines	!
!	! (MBR8C1) program libraries	!
! TI3SFI	! Installation of error message and on-	! OS JCL
!	! line documentation file (TE)	!
! TI4PRE	! Initialization of GDG backup (TC)	! OS JCL
! TI5ITB	! Initialization of TB file (TUF-TP)	! OS JCL
! TI6PRO	! Operations procedure cataloging	! OS JCL
! TI7TAB	! Test tables restoration	! OS JCL
! TI8CTF	! Loading of macro-structures that	!
!	! describe the communication areas used	!
!	! in TUF-TP user facility.	!
!	! BATCH PROCEDURE TESTS: Proc.	!
!	!	!
! TO2GET	! Tables generation	! OS JCL
! TO2INT	! Ex. Tables initialization	! OS JCL
! TO2PRT	! Ex. Tables printing	! OS JCL
! TO2IMT	! Ex. Tables import	! OS JCL
! TO2UPT	! Ex. Tables update	! OS JCL
! TO2SVT	! Ex. Tables backup	! OS JCL
! TO2TCT	! Ex. Tables transfer	! OS JCL
! TO2RST	! Ex. Tables restoration	! OS JCL
! TO2RET	! Ex. Tables reorganization	! OS JCL
! TO2PMT	! Ex. Parameter update	! OS JCL
! TO2EXT	! Ex. Table extraction	! OS JCL
! TO2TUT	! Ex. Production turnover	! OS JCL
!	!	!
!	! With ===SELV DTM	!
! TO2CD1	! Ex. Description comparison	! OS JCL
! TO2CD2	! Ex. Description comparison	! OS JCL
! TO2CVT	! Ex. Tables updating	! OS JCL
! TO2LPT	! Ex. Module list	! OS JCL
! TO2TTA	! Ex. retrieval Tables 8.02 or 1.2	! OS JCL
! TO2R73	! Ex. retrieval Tables 7.3	! OS JCL
! TO2R72	! Ex. retrieval Tables 7.2	! OS JCL

22.8. JCL PARAMETERIZATION

TABLE OF PARAMETERS

===PRM	PPPP=pppp	.Comments
!CODE	! MEANING	! DEFAULT
!PPPP	!	! pppp
!	!	!
!	! ON JOB CARDS	!
!	! -----	!
!	!	!
!PRFJ	! 4 character maxi. jobname prefix	! PAC
!CCPT	! Job accounting code	! <>
!CLASSJ	! Job execution class	! 1
!MSGCL	! JCL output class	! A
!	!	!
!	! CODIFICATION OF FILE DSNs	!
!	! -----	!
!	!	!
!	! All permanent VA Pac file names	!
!	! (except for load module libraries)	!
!	! have the following format:	!
!	!	!
!	! INDUV.xx00ss : User VSAM.	!
!	! INDUN.xx00ss : User non-VSAM.	!
!	! INDSV.xx00ss : System VSAM.	!
!	! INDSN.xx00ss : System non-VSAM.	!
!	!	!
!	! IND-- Index of file names:	!
!INDSV	! VSAM-system	!
!INDSN	! NON-VSAM-system (SAM, PDS)	!
!INDUV	! VSAM-user	!
!INDUN	! NON-VSAM-user (SAM)	!
!	!	!
!	! xx=ROOTT, ss=file code suffix	!
!ROOTT	! ROOT OF THE PACTABLES SYSTEM	! PM
!	! (2 characters other than PH)	!
!	!	!

TABLE OF PARAMETERS (Continued)

!CODE	! MEANING	! DEFAULT
!PPPP	!	! pppp
!	!	!
!	! CSD CICS update parameters	!
!	! (CICS/ESA V3 RDO only)	!
!	! -----	!
!	!	!
! CSDL	! DFHCSDUP STEPLIB DSN	'CICS311.LOADLIB'
! DFHCSD	! Pactables CSD DSN	'PAC.DFHCSD'
! GROUP	! Pactables CSD input group	!PACBASE
! LIST	! List where group is to be added	! <>
!	!	!
!	! ON THE DD CARDS	!
!	! -----	!
!OUT	! Sysout printing class	! A
!UTAPE	! UNIT of the installation tape,	! TAPE
!	! copy of tape supplied with the prod.	!
!TAPEI	! Name of the installation tape,	! <>
!	! copy of tape supplied with the prod.	!
!UWK	! UNIT of work files used	! SYSDA
!UNITSN	! UNIT of system non VSAM files	! SYSDA
!UNITUN	! UNIT of user non VSAM files	! SYSDA
!VOLSN	! Volume name of non-VSAM system files	! <>
!VOLSV	! Volume name of VSAM system files	! <>
!VOLUN	! Volume name of non-VSAM user files	! <>
!VOLUV	! Volume name of VSAM user files	! <>

TABLE OF PARAMETERS (End)

!CODE	! MEANING	! DEFAULT
!PPPP	!	! pppp
!	!	!
!	!OTHER PARAMETERS	!
!	!-----	!
!	!	!
!RADP	!Prefix of names of procedures to !install (4 characters maximum)	! PM80
!VCAT	!DSNAME of the VSAM catalog in which !the installed Pactables test files !are installed	!
!SCAT	!DSNAME of the VSAM catalogue in which !the Pactables TE file is installed	!
!RUS	!File defined as REUSE or UNIQUE	!RUS
!MODB	!DSNAME of Pactables 2.0 batch load- !modules	!PAC.T80.MBR8!
!MODT	!DSNAME of Pactables 2.0 on-line load- !modules	!PAC.T80.MTR8!
!MODV	!DSNAME of Pactables 2.0 access mo- !dules library (COBOL/VS)	PAC.T80.MBR8C1!
!BIBP	!DSNAME of the procedure library in !which the Pactables procedures are to !be cataloged.	!SYS1.PROCLIB!
!BIBT	!DSNAME of the sort library	!SYS1.SORTLIB!
!	!	!
!MACT	!DSNAME of TUF-TP facility macro- structures library.	!PAC.T25.MACT!

NOTES: The '<>' indicates a required coded parameter.

The values of parameters containing special characters must be delimited by quotes.

22.9. JCL-MODULE SEPARATORS

JCL MODULE SEPARATORS

```
===BEGMOD  
....1  )  
..... ) lines to insert before each JCL module  
....n  )  
  
===ENDMOD  
....1  )  
..... ) lines to insert after each JCL module  
....n  )
```

Lines may be inserted as input in the MM1JCL if the default option is not appropriate (see Subchapter 'Installation Default settings' above).

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

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

22.10. INSTALLATION PROCESS

INSTALLATION PROCESS

Once the JCL is obtained, the installation of the Pactables function includes twelve steps:

- 0 . Update of CICS tables,
- 1 . Allocation and loading of parameter PDS,
- 2 . Allocation and loading of load-modules libraries,
- 3 . Installation of error message and documentation file,
- 4 . Installation of Pactables test Table backup,
- 5 . Initialization of working file for TUF-TP,
- 6 . Cataloging of operations procedures,
- 7 . Test Table restoration,
- 8 . Loading of VA Pac macro-structures for TUF-TP facility,
- 9 . Update of user parameters,
- 10 . Operations complement,
- 11 . Listing installed programs.

0. UPDATE OF CICS TABLES

-Transactions codes:

2 user transaction codes:

xx00 xx90

11 internal transaction codes (RETURN TRANSID):

xx01 xx02 xx03 xx04 xx05 xx06 xx07 xx08
xx09 xx91 xx92

-coded Programs:

xxPnnn

(Complete list in Chapter PACTABLES COMPONENTS.)

-Files:

1 Pactables system file:

xx00TE: Error messages

4 user files:

xx00TV: Table contents file,
xx00TD: Table description file,
xx00TG: User parameter file.
xx00TB: TUF-TP facility's working file

NOTES ON THE INSTALLATION:

CICS/ESA V3: Input is updated in the CSD by the \$prfj.TCI job of the
===MOD TCICSD JCL module.

The option allowing for 'Dynamic Backout' is required for the TV, TD, and TG files.

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

The two 'xx' characters of the transaction codes, the map and program names, and the file codes are chosen by the user (default = 'PH').

Transaction xx00 allows all normal operations to be done on the tables (consultation, update).

Transaction xx90 allows Pactables users to modify their passwords. It also allows the Table manager to enter Pactables general parameters (language, date format, security system Interface) and to update user passwords and access authorization.

1. ALLOCATION AND LOADING OF SYSTEM PARAMETER PDS (SY)

===MOD TI1SY

JOB \$prfj.TI1

STEP1 : IEHPROGM : SCRATCH/UNCATLG of parameter PDS
STEP2 : IEFBR14 : Allocation of SY parameter PDS
STEP3 : IEBUPDTE : Loading of the PDS which contains IDCAMS
entries:

. DFxx00TV : DELETE/DEFINE contents of the tables,
. DFxx00TD : DELETE/DEFINE description of the tables,
. DFxx00TE : DELETE/DEFINE error messages,
. DFxx00TG : DELETE/DEFINE user parameters,
. DFxx00AD : DELETE/DEFINE descrip. for operation (TUTA),
. DFxx00AV : DELETE/DEFINE contents for operation (TUTA),
. DFxx00TB : DELETE/DEFINE work. file for TUF-TP facility
. VERIFTV : VERIFY PAC7TV,
. VERIFTD : VERIFY PAC7TD,
. VERIFTS : VERIFY PAC7TS,
. VERIFTE : VERIFY PAC7TE,
. VERIFTG : VERIFY PAC7TG,
. VERIFAD : VERIFY PAC7AD,
. VERIFAV : VERIFY PAC7AV,
. REPROTG : REPRO TG file (RPTG).

2. ALLOCATION AND LOADING OF LOAD-MODULE LIBRARIES

===MOD TI2PGM

JOB \$prfj.TI2

STEP1 : IEHPROGM : SCRATCH/UNCATLG libraries
STEP2 : IEFBR14 : library allocation
STEP3 : IEBCOPY : Batch and on-line load-module loading

With the Security System Interface option (SEC)
STEP4 : IEBCOPY : loading of the PACSECU sub-program in
an authorized program library.

PACSECRA for RACF
PACSECTS for TOP SECRET

3. ERROR MESSAGE AND DOCUMENTATION FILE INSTALLATION

===MOD TI3SFI

JOB \$prfj.TI3

STEP1 : IDCAMS : DELETE/DEFINE TE file.
STEP2 : IDCAMS : REPRO of TE error message file.

4. PACTABLES TEST FILE INSTALLATION

===MOD TI4PRE

JOB \$PRFJ.TI4

STEP1 : IEHPRGM : SCRATCH UNCATLG of the model DSCB file
STEP2 : IEFBR14 : Allocation of the model DSCB file
STEP3 : IDCAMS : GDG of TC file
STEP4 : IEBGENER : Test backup loading

5. INITIALIZATION OF WORKING FILE FOR TUF-TP

===MOD TI5ITB

JOB \$prfj.TI5

STEP 1: IDCAMS: DELETE/DEFINE of TB file
STEP 2: IDCAMS: Loading of TB file

6. CATALOGING OF OPERATING PROCEDURES : IEBUPDTE

===MOD TI6PRO

It is recommended to catalogue the table operation procedures in a PROCLIB. The JOB '\$prfj.TI6' creates a member per procedure.

Each member is coded '\$radp.proc' with '\$radp.' being the root chosen during installation and 'proc' being the name of a standard procedure in the product. These procedures are described in previous chapters.

7. TEST TABLE RESTORATION

===MOD TI7TAB

JOB \$prfj.TI7

This job executes the RSTA procedure with, as input, the backup loaded on disk during the STEP4 of the '\$prfjTI4' job.

8. VA PAC MACRO-STRUCTURES FOR THE USE OF TUF FACILITY

===MOD TI8CTF

JOB \$prfj.TI8

This facility loads VA Pac Macro-structures required for the use of TUF-TP facility.

These Macros-structures are supplied in the form of transactions for the UPDT procedure in input. To take into account these Macro-structures, you must update VA Pac Database before using TUF-TP facility.

STEP1: IDCAMS: DELETE Macro-structures library
STEP2: IDCAMS: Allocation dof Macro-structures library
STEP3: IEBCOPY: Loading of Macro-structures in the library already allocated

9. UPDATE OF USER PARAMETERS

The system is operational when user parameters are entered in the Pactables Database.

Before any test, it is necessary to update user parameters in the TG file using the PMTA procedure. An initial general user code is provided for the installation phase and is found in the TG file:

'*****SUPER '

10. USER OPERATION COMPLEMENTS

Since tables are rather stable files undergoing few updates, the Pactables function does not provide a journal file. However, update transactions can be retrieved from the standard CICS file.

22.11. JCL: CICS CSD UPDATE

```
//$PRFJ.TCI JOB ($CPT),'PACTABLES DFHCSDUP',CLASS=$CLASSJ,  
//      MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// *      --- BATCH UPDATE OF THE DFHCSD --- *  
//*****  
//DFHCSDUP EXEC PGM=DFHCSDUP  
//STEPLIB DD DSN=$CSDL,DISP=SHR  
//SYSPRINT DD SYSOUT=$OUT  
//DFHCSD DD DSN=$DFHCSD,DISP=SHR  
//SYSIN DD *  
*****  
*      --- CSD CICS $ROOTT. FILES --- *  
*****  
DEFINE FILE($ROOTT.00TB) GROUP($GROUP)  
DESCRIPTION(PACTABLE WORK FILE)  
  DSNAME($INDUV..$ROOTT.00TB)  
  STRINGS(2)  
  STATUS (ENABLED) OPENTIME(STARTUP)  
  DATABUFFERS(3) INDEXBUFFERS(2)  
  RECORDFORMAT(V)  
  ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)  
  RECOVERY(BACKOUTONLY)  
DEFINE FILE($ROOTT.00TV) GROUP($GROUP)  
DESCRIPTION(PACTABLE DATA FILE)  
  DSNAME($INDUV..$ROOTT.00TV)  
  STRINGS(2)  
  STATUS (ENABLED) OPENTIME(STARTUP)  
  DATABUFFERS(3) INDEXBUFFERS(2)  
  RECORDFORMAT(V)  
  ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)  
  RECOVERY(BACKOUTONLY)  
DEFINE FILE($ROOTT.00TD) GROUP($GROUP)  
DESCRIPTION(PACTABLE DESCRIPTION FILE)  
  DSNAME($INDUV..$ROOTT.00TD)  
  STRINGS(2)  
  STATUS (ENABLED) OPENTIME(STARTUP)  
  DATABUFFERS(3) INDEXBUFFERS(2)  
  RECORDFORMAT(F)  
  ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)  
  RECOVERY(BACKOUTONLY)  
DEFINE FILE($ROOTT.00TG) GROUP($GROUP)  
DESCRIPTION(PACTABLE USERS FILE)  
  DSNAME($INDUV..$ROOTT.00TG)  
  STRINGS(2)  
  STATUS (ENABLED) OPENTIME(STARTUP)  
  DATABUFFERS(3) INDEXBUFFERS(2)  
  RECORDFORMAT(F)  
  ADD(YES) BROWSE(YES) DELETE(YES) READ(YES) UPDATE(YES)  
  RECOVERY(BACKOUTONLY)  
DEFINE FILE($ROOTT.00TE) GROUP($GROUP)  
DESCRIPTION(PACTABLE ERROR MESSAGES AND DOC FILE)  
  DSNAME($INDSV..$ROOTT.00TE)  
  STRINGS(1)  
  STATUS (ENABLED) OPENTIME(STARTUP)  
  DATABUFFERS(2) INDEXBUFFERS(1)  
  RECORDFORMAT(F)  
  ADD(NO) BROWSE(YES) DELETE(NO) READ(YES) UPDATE(NO)  
  RECOVERY(BACKOUTONLY)  
*****  
*      CSD CICS $ROOTT. PROGRAMS *  
*****  
DEFINE PROGRAM($ROOTT.FT00) GROUP($GROUP)  
DEFINE PROGRAM($ROOTT.FT90) GROUP($GROUP)  
DEFINE PROGRAM($ROOTT.P500) GROUP($GROUP)  
DEFINE PROGRAM($ROOTT.P510) GROUP($GROUP)
```

INSTALLATION

22

JCL: CICS CSD UPDATE

11

```

DEFINE PROGRAM($ROOTT.P520) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P530) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P540) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P550) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P560) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P570) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P580) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P590) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P599) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P600) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P610) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P620) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P820) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.P920) GROUP($GROUP)
DEFINE PROGRAM($ROOTT.R980) GROUP($GROUP)
===SEQ FOR SEC
DEFINE PROGRAM($ROOTT.SECT) GROUP($GROUP)
===SEQ
*****
*      ROUTINE FOR ACCES TO TABLES VIA ON-LINE PROGRAM      *
*****
DEFINE PROGRAM($ROOTT.PLNK) GROUP($GROUP)
*****
*      CSD CICS $ROOTT.-- TRANSACTIONS      *
*****
DEFINE TRANSACTION($ROOTT.00) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.00 TRANSACTION) PROGRAM($ROOTT.P500)
DEFINE TRANSACTION($ROOTT.01) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.01 TRANSACTION) PROGRAM($ROOTT.P510)
DEFINE TRANSACTION($ROOTT.02) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.02 TRANSACTION) PROGRAM($ROOTT.P520)
DEFINE TRANSACTION($ROOTT.03) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.03 TRANSACTION) PROGRAM($ROOTT.P530)
DEFINE TRANSACTION($ROOTT.04) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.04 TRANSACTION) PROGRAM($ROOTT.P540)
DEFINE TRANSACTION($ROOTT.05) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.05 TRANSACTION) PROGRAM($ROOTT.P550)
DEFINE TRANSACTION($ROOTT.06) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.06 TRANSACTION) PROGRAM($ROOTT.P560)
DEFINE TRANSACTION($ROOTT.07) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.07 TRANSACTION) PROGRAM($ROOTT.P570)
DEFINE TRANSACTION($ROOTT.08) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.08 TRANSACTION) PROGRAM($ROOTT.P580)
DEFINE TRANSACTION($ROOTT.09) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.09 TRANSACTION) PROGRAM($ROOTT.P590)
DEFINE TRANSACTION($ROOTT.90) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.90 TRANSACTION) PROGRAM($ROOTT.P600)
DEFINE TRANSACTION($ROOTT.91) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.91 TRANSACTION) PROGRAM($ROOTT.P610)
DEFINE TRANSACTION($ROOTT.92) GROUP($GROUP)
DESCRIPTION(PACTABLE $ROOTT.92 TRANSACTION) PROGRAM($ROOTT.P620)
ADD GROUP($GROUP) LIST($LIST)

```

22.12. JCL: PARAMETER-PDS LOADING

```
//$PRFJ.TI1 JOB ($CCPT),'TABLE PARAMETERS',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* ALLOCATION OF PACTABLES PARAMETER PDS *  
//* .STEP1 : SCRATCH UNCATLG *  
//* .STEP2 : ALLOCATION *  
//* .STEP3 : LOADING OF PACTABLES PARAMETERS *  
//* *  
//* ->NOTE *  
//* ---- *  
//* THIS PDS CONTAINS THE SYSINS FOR ALLOCATING THE FILES THAT *  
//* MAKE UP THE PACTABLES TABLE FILES *  
//* THE INDICATED SIZES CAN BE ADAPTED ACCORDING TO YOUR NEEDS *  
//* *  
//*****  
//*  
//STEP1 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD *  
DELETE ($INDSN..$ROOTT.$ROOTT.SY)  
//*  
//STEP2 EXEC PGM=IEFBRI4  
//SY DD DSN=$INDSN..$ROOTT.$ROOTT.SY,  
// DISP=(,CATLG,DELETE),  
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),  
// VOL=SER=$VOLSN,  
// SPACE=(6080,(10,,10)),UNIT=$UNITSN  
//*  
//STEP3 EXEC PGM=IEBUPDTE,PARM=NEW  
//SYSPRINT DD SYSOUT=$OUT  
//SYSUT2 DD DSN=$INDSN..$ROOTT.$ROOTT.SY,  
// DISP=SHR  
//SYSIN DD *  
:/ ADD NAME=DF$ROOTT.00TB  
DELETE ($INDUV..$ROOTT.00TB) CLUSTER  
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00TB) -  
SHR (2,3) $RUS KEYS (63,3) -  
CYL (1,1) -  
VOL ($VOLUV) -  
RECSZ (80,1140) ) -  
INDEX ( NAME ($INDUV..$ROOTT.00TB.I) -  
CISZ (1024) ) -  
DATA ( NAME ($INDUV..$ROOTT.00TB.D) -  
FSPC (10,5) -  
CISZ (2048) )  
:/ ADD NAME=DF$ROOTT.00TV  
DELETE ($INDUV..$ROOTT.00TV) CLUSTER  
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00TV) -  
SHR (2,3) $RUS KEYS (35,4) -  
CYL (1,1) -  
VOL ($VOLUV) -  
RECSZ (80,1100) ) -  
INDEX ( NAME ($INDUV..$ROOTT.00TV.I) -  
CISZ (1024) ) -  
DATA ( NAME ($INDUV..$ROOTT.00TV.D) -  
FSPC (10,5) -  
CISZ (2048) )  
:/ ADD NAME=DF$ROOTT.00TD  
DELETE ($INDUV..$ROOTT.00TD) CLUSTER  
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00TD) -  
SHR (2,3) $RUS KEYS (21,0) -  
CYL (1,1) -  
VOL ($VOLUV) -  
RECSZ (240,240) ) -  
INDEX ( NAME ($INDUV..$ROOTT.00TD.I) -
```

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JCL: PARAMETER-PDS LOADING

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```

          CISZ (1024) )           -
DATA      ( NAME ($INDSV..$ROOTT.00TD.D) -
          FSPC (10,5)           -
          CISZ (2048) )
:/      ADD NAME=DF$ROOTT.00TE
DELETE ($INDSV..$ROOTT.00TE) CLUSTER
DEFINE CLUSTER ( NAME ($INDSV..$ROOTT.00TE) -
          KEYS (17,0) SHR (2,3) RUS -
          CYL (1,1)             -
          VOL ($VOLSV)         -
          RECSZ (90,90) )      -
INDEX    ( NAME ($INDSV..$ROOTT.00TE.I) -
          CISZ (1024) )       -
DATA     ( NAME ($INDSV..$ROOTT.00TE.D) -
          CISZ (1024) )
:/      ADD NAME=DF$ROOTT.00TG
DELETE ($INDUV..$ROOTT.00TG) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00TG) -
          SHR (2,3) $RUS KEYS (22,0) -
          CYL (1,1)             -
          VOL ($VOLUV)         -
          RECSZ (85,85) )      -
INDEX    ( NAME ($INDUV..$ROOTT.00TG.I) -
          CISZ (1024) )       -
DATA     ( NAME ($INDUV..$ROOTT.00TG.D) -
          FSPC (10,5)           -
          CISZ (2048) )
:/      ADD NAME=DF$ROOTT.00AV
DELETE ($INDUV..$ROOTT.00AV) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00AV) -
          SHR (2,3) $RUS KEYS (35,4) -
          CYL (1,1)             -
          VOL ($VOLUV)         -
          RECSZ (80,1100) )    -
INDEX    ( NAME ($INDUV..$ROOTT.00AV.I) -
          CISZ (1024) )       -
DATA     ( NAME ($INDUV..$ROOTT.00AV.D) -
          FSPC (10,5)           -
          CISZ (2048) )
:/      ADD NAME=DF$ROOTT.00AD
DELETE ($INDUV..$ROOTT.00AD) CLUSTER
DEFINE CLUSTER ( NAME ($INDUV..$ROOTT.00AD) -
          SHR (2,3) $RUS KEYS (21,0) -
          CYL (1,1)             -
          VOL ($VOLUV)         -
          RECSZ (240,240) )    -
INDEX    ( NAME ($INDUV..$ROOTT.00AD.I) -
          CISZ (1024) )       -
DATA     ( NAME ($INDUV..$ROOTT.00AD.D) -
          FSPC (10,5)           -
          CISZ (2048) )
:/      ADD NAME=VERIFTV
VERIFY FILE (PAC7TV)
:/      ADD NAME=VERIFTD
VERIFY FILE (PAC7TD)
:/      ADD NAME=VERIFTE
VERIFY FILE (PAC7TE)
:/      ADD NAME=VERIFTG
VERIFY FILE (PAC7TG)
:/      ADD NAME=VERIFAV
VERIFY FILE (PAC7AV)
:/      ADD NAME=VERIFAD
VERIFY FILE (PAC7AD)
:/      ADD NAME=REPROTG
REPRO INFILE(PAC7IG) OUTFILE(PAC7TG)
/*
//

```

22.13. JCL: LOAD-MODULE LOADING

```
//$PRFJ.TI2 JOB ($CCPT),'MBR8 MTR8 PDS',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* INITIAL ALLOCATING OF THE MBR8 AND MTR8 PDS *  
//* OF THE BATCH AND ON-LINE PROGRAMS *  
//* .STEP1 : SCRATCH UNCATLG *  
//* .STEP2 : ALLOCATION *  
//* .STEP3 : LOADING BATCH AND TP PROGRAMS *  
//*****  
//*  
//STEP1 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD *  
DELETE ($MODT)  
DELETE ($MODB)  
DELETE ($MODV)  
//*  
//STEP2 EXEC PGM=IEFBR14  
//LNKB DD DSN=$MODB,  
// DISP=(,CATLG,DELETE),UNIT=$UNITSN,  
// VOL=SER=$VOLSN,  
// SPACE=(6144,(400,10,20)),DCB=(RECFM=U,BLKSIZE=6144)  
//LNKT DD DSN=$MODT,  
// DISP=(,CATLG,DELETE),UNIT=$UNITSN,  
// VOL=SER=$VOLSN,  
// SPACE=(6144,(400,10,20)),DCB=(RECFM=U,BLKSIZE=6144)  
//LNKV DD DSN=$MODV,  
// DISP=(,CATLG,DELETE),UNIT=$UNITSN,  
// VOL=SER=$VOLSN,  
// SPACE=(6144,(400,10,20)),DCB=(RECFM=U,BLKSIZE=6144)  
//*  
//STEP3 EXEC PGM=IEBCOPY  
//***** LOADING OF BATCH AND ON-LINE PROGRAMS *****  
//SYSPRINT DD SYSOUT=$OUT  
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))  
//OUTB DD DSN=$MODB, BATCH  
// DISP=OLD  
//OUTT DD DSN=$MODT, ON LINE  
// DISP=OLD  
//OUTV DD DSN=$MODV, COBOL/V5  
// DISP=OLD  
//INB DD DSN=PACT.MBR8,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(5,SL)  
//INT DD DSN=PACT.MTR8,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(6,SL)  
//INV DD DSN=PACT.MBR8C1,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(7,SL)  
//INP DD DSN=PACT.MBR8,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(8,SL)  
//SYSIN DD *  
C I=((INB,R)),O=OUTB  
S M=PTU001  
===SEQ FOR DTM  
S M=PTAD05  
S M=PTAD10  
S M=PTAD20  
===SEQ  
S M=PTAINI  
S M=PTARSD  
S M=PTARSG  
S M=PTARSV  
S M=PTARTG  
S M=PTAR20  
S M=PTASVD  
S M=PTASVG
```

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```

S M=PTASVV
S M=PTATCD
S M=PTATCG
S M=PTATCV
S M=PTATC1
S M=PTATC2
S M=PTAU80
S M=PTAXVD
S M=PTAXVG
S M=PTAXVV
===SEQ FOR DTM
S M=PTAV10
S M=PTAV20
===SEQ
S M=PTA100
S M=PTA120
S M=PTA150
S M=PTA160
S M=PTA250
S M=PTA290
S M=PTA300
S M=PTA302
S M=PTA310
S M=PTA312
S M=PTA320
S M=PTA350
S M=PTA360
S M=PTA400
S M=PTA410
S M=PTA420
S M=PTA430
S M=PTA800
S M=PTA900
S M=PACXDT
===SEQ FOR SEC
S M=PACSECB
===SEQ
C I=((INT,R)),O=OUTT
S M=((PHPLNK,$ROOTT.PLNK))
S M=((PHFT00,$ROOTT.FT00))
S M=((PHFT90,$ROOTT.FT90))
S M=((PHP500,$ROOTT.P500))
S M=((PHP510,$ROOTT.P510))
S M=((PHP512,$ROOTT.P512))
S M=((PHP520,$ROOTT.P520))
S M=((PHP522,$ROOTT.P522))
S M=((PHP530,$ROOTT.P530))
S M=((PHP540,$ROOTT.P540))
S M=((PHP550,$ROOTT.P550))
S M=((PHP560,$ROOTT.P560))
S M=((PHP570,$ROOTT.P570))
S M=((PHP580,$ROOTT.P580))
S M=((PHP590,$ROOTT.P590))
S M=((PHP599,$ROOTT.P599))
S M=((PHP600,$ROOTT.P600))
S M=((PHP610,$ROOTT.P610))
S M=((PHP620,$ROOTT.P620))
S M=((PHP820,$ROOTT.P820))
S M=((PHP920,$ROOTT.P920))
S M=((PHR980,$ROOTT.R980))
===SEQ FOR SEC
S M=((PHSECT,$ROOTT.SECT))
===SEQ
C I=((INV,R)),O=OUTV
S M=PTA800
S M=PTA900
S M=PACSECB
S M=((PHP820,$ROOTT.P820))
S M=((PHP920,$ROOTT.P920))
S M=((PHSECT,$ROOTT.SECT))
C I=((INP,R)),O=OUTB
S M=PACTIN
S M=PACT40

```

```
          S M=PACT45
          S M=PACT50
//STEP4  EXEC PGM=IEBCOPY
//*****
//*      LOADING OF THE RACF SECURITY SYSTEMS INTERFACE MODULE      *
//*      CAUTION:  BEFORE SUBMITTING THE JOB,  SELECT                *
//*                PACSECRA FOR RACF                                *
//*                PACSECTS FOR TOPSECRET                           *
//*      .STEP4:  LOADING                                           *
//*****
//SYSPRINT DD  SYSOUT=$OUT
//SYSUT3   DD  UNIT=$UWK,SPACE=(CYL,(2,1))
//OUTB     DD  DSN=-----,DISP=OLD <--- AUTHORIZED LIBRARY
//INB      DD  DSN=PACT.MBR8,DISP=SHR,
//          VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(5,SL)
//SYSIN    DD  *
          C  I=((INB,R)),O=OUTB
          S  M=((PACSECRA,PACSECU8))
          S  M=((PACSECTS,PACSECU8))
//*
```


22.14. JCL: ERROR-MESSAGES / DOCUMENTATION LOADING

```
//$PRFJ.TI3 JOB ($CCPT),'SYSTEM FILES',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * LOADING OF PACTABLES ERROR-MESSAGES AND DOCUMENTATION *  
//*****  
//STEP1 EXEC PGM=IDCAMS  
//***** DELETE DEFINE 'TE' FILE  
//*  
//*:STEPCAT DD DSN=$SCAT,DISP=SHR  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD DSN=$INDSN..$ROOTT.$ROOTT.SY(DF$ROOTT.00TE),  
// DISP=SHR  
//STEP2 EXEC PGM=IDCAMS  
//***** LOADING 'TE' FILE  
//*  
//*:STEPCAT DD DSN=$SCAT,DISP=SHR  
//SYSPRINT DD SYSOUT=$OUT  
//TEO DD DSN=$INDSV..$ROOTT.00TE,  
// DISP=SHR  
//TEI DD DSN=PACT.TE,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(4,SL),  
// DCB=(RECFM=FB,LRECL=90,BLKSIZE=1800)  
//SYSIN DD *  
REPRO INFILE (TEI) OUTFILE (TEO)  
//*
```

22.15. JCL: TEST-BACKUP INSTALLATION

```
//$PRFJ.TI4 JOB ($CCPT),'PREPAR',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* JOB TO BE RUN ONLY AT THE FIRST INSTALLATION OF THE PACTABLE *  
//* SYSTEM *  
//* . BUILDING OF DSCB MODEL AND INDEX DATA-GROUP FOR BACKUP *  
//* . LOADING OF TEST BACKUP ON 'TC' FILE *  
//*****  
//STEP1 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD *  
DELETE ($DSCB)  
//*  
//STEP2 EXEC PGM=IEFBR14  
//DSCB DD DISP=(,CATLG),SPACE=(TRK,0),  
// UNIT=$UNITSN,  
// VOL=SER=$VOLSN,  
// DSN=$DSCB  
//*  
//STEP3 EXEC PGM=IDCAMS  
//*:STEPCAT DD DSN=$VCAT,DISP=SHR  
//GDGMOD DD DSN=$INDUN..$ROOTT.00TC,  
// DISP=(,KEEP,DELETE),SPACE=(TRK,0),  
// UNIT=$UNITUN,  
// VOL=SER=$VOLUN,  
// DCB=($DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD *  
DEFINE GENERATIONDATAGROUP -  
 (NAME ($INDUN..$ROOTT.00TC) LIMIT (3) SCR)  
//*  
//STEP4 EXEC PGM=IEBGENER  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD DUMMY  
//SYSUT1 DD DSN=PACT.TCENG,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(10,SL)  
//SYSUT2 DD DSN=$INDUN..$ROOTT.00TC(+1),  
// DISP=(,CATLG,DELETE),  
// UNIT=$UNITUN,  
// VOL=SER=$VOLUN,  
// SPACE=(TRK,(15,5),RLSE),  
// DCB=($DSCB,RECFM=VB,LRECL=1067,BLKSIZE=10674)  
//
```

22.16. INITIALISATION DU FICHER TB

```
//$PRFJ.TI5 JOB ($CCPT),'FILE TB',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* LOADING OF TB WORK FILE *  
//*****  
//STEP1 EXEC PGM=IDCAMS  
//***** DELETE DEFINE 'TB' FILE  
//*  
//*:STEPCAT DD DSN=$SCAT,DISP=SHR  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD DSN=$INDSN..$ROOTT.$ROOTT.SY(DF$ROOTT.00TB),  
// DISP=SHR  
//STEP2 EXEC PGM=IDCAMS  
//***** LOADING 'TB' FILE  
//*  
//*:STEPCAT DD DSN=$SCAT,DISP=SHR  
//SYSPRINT DD SYSOUT=$OUT  
//TBO DD DSN=$INDSV..$ROOTT.00TB,  
// DISP=SHR  
//TBI DD DSN=PACT.TB,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPE1),UNIT=$UTAPE,LABEL=(11,SL),  
// DCB=(RECFM=VB,LRECL=1136,BLKSIZE=11364)  
//SYSIN DD *  
REPRO INFILE (TBI) OUTFILE (TBO)  
//*
```

22.17. JCL: PROCEDURE LOADING

```
//$PRFJ.TI6 JOB ($CCPT),'PROCEDURES ',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * --- CATALOGING OF PACTABLES PROCEDURES --- *  
//*****  
// EXEC PGM=IEBUPDTE,PARM=NEW  
//SYSPRINT DD SYSOUT=$OUT  
//SYSUT2 DD DSN=$BIBP,DISP=SHR  
//SYSIN DD DATA,DLM='F+'  
:/ ADD NAME=$RADP.INTA  
:/ ADD NAME=$RADP.GETT  
:/ ADD NAME=$RADP.LDTA  
:/ ADD NAME=$RADP.UPTA  
:/ ADD NAME=$RADP.IMTA  
:/ ADD NAME=$RADP.PRTA  
:/ ADD NAME=$RADP.RETA  
:/ ADD NAME=$RADP.PMTA  
:/ ADD NAME=$RADP.EXTA  
:/ ADD NAME=$RADP.TUTA  
:/ ADD NAME=$RADP.SVTA  
:/ ADD NAME=$RADP.RSTA  
:/ ADD NAME=$RADP.CDT1  
:/ ADD NAME=$RADP.CDT2  
:/ ADD NAME=$RADP.CVTA  
:/ ADD NAME=$RADP.LPTA  
:/ ADD NAME=$RADP.TCTA  
:/ ADD NAME=$RADP.R2TA  
:/ ADD NAME=$RADP.R3TA  
:/ ADD NAME=$RADP.GETA  
:/ ADD NAME=$RADP.GETD  
:/ ADD NAME=$RADP.GETI  
F+  
//
```

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JCL: TEST-FILE RESTORATION

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22.18. JCL: TEST-FILE RESTORATION

```
//$PRFJ.TI7 JOB ($CCPT),'TABLE FILES',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* --- LOADING OF THE PACTABLES TEST FILES --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//STEP1 EXEC $RADP.RSTA
```

22.19. LOADING OF THE MACRO-STRUCTURES FOR TUF-TP

```
// $PRFJ.TI8 JOB ($CPT), 'MBR8 MTR8 PDS', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// *****  
// * VisualAge Pacbase Pactable 2.5 *  
// *****  
// * ALLOCATION INITIALE DE LA BIBLIOTHEQUE DE STOCKAGE DES *  
// * MACROS-STRUCTURES POUR TUF-TP, SOUS FORME DE MOUVEMENTS *  
// * D'ENTREE DE LA PROCEDURE UPDT DE VA Pac *  
// * .STEP1 : SCRATCH UNCATLG *  
// * .STEP2 : ALLOCATION *  
// * .STEP3 : CHARGEMENT DES MACROS-STRUCTURES *  
// *****  
// *  
//STEP1 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=$OUT  
//SYSIN DD *  
DELETE ($MACT)  
// *  
//STEP2 EXEC PGM=IEFBR14  
//MACT DD DSN=$MACT,  
// DISP=(,CATLG,DELETE),UNIT=$UNITSN,  
// VOL=SER=$VOLSN,  
// SPACE=(6144,(20,2,2)),  
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=32000)  
// *  
//STEP3 EXEC PGM=IEBCOPY  
// ***** CHARGEMENT DES MACROS-STRUCTURES *****  
//SYSPRINT DD SYSOUT=$OUT  
//SYSUT3 DD UNIT=$UWK,SPACE=(CYL,(2,1))  
//OUTM DD DSN=$MACT, MACROS-STRUCTURES  
// DISP=OLD  
//INM DD DSN=PACT.MACT,DISP=SHR,  
// VOL=(,RETAIN,SER=$TAPEI),UNIT=$UTAPE,LABEL=(12,SL),  
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=32000)  
//SYSIN DD *  
C I=((INM,R)),O=OUTM  
S M=((AAATUFA,AAATUFA))  
S M=((AAATUFL,AAATUFL))  
S M=((AAATUFS,AAATUFS))  
S M=((AAATUFX,AAATUFX))  
/*
```

22.20. AATUFA MACRO-STRUCTURE

```
*USER      PASSW  LIBSESSI                                N
X0      AATUFAAATUFATUF: DATA ELEMENT DESCRIPTION N      AATUFA  P
XM01 /AATUFATHIS MACRO DESCRIBES THE CHARACTERISTICS
XM02 /AATUFAOF THE DATA ELEMENTS OF THE TABLE ACCESSED
XM03 /AATUFAIT MUST BE USED IN ADDITION TO THE 'AATUFX'
XM04 /AATUFAMACRO.
XM05 /AATUFAIT CAN BE CALLED AS MANY TIMES AS THERE ARE EL.
XM06 /AATUFADATA ELEMENTS THAT DESCRIBE THE TABLE OR THE
XM07 /AATUFASUB-SCHEMA OF THE TABLE IN A READ-ONLY MODE.
XM10 /AATUFA$1 = CURSOR CODE ON 4 C.
XM12 /AATUFA$2 = BEG. OF WORKING ON 2C.
XM14 /AATUFA$3 = SEQ. OF WORKING ON 2C  (30 <      < 90)
XM16 /AATUFA$4 = DATA ELEMENT CODE ON 6C.
X7 $2$3A      03          G-$1-$4-I  PICTURE X(6).
X7 $2$3B      03          G-$1-$4-L  PICTURE X(18).
X7 $2$3C      03          G-$1-$4-C  PICTURE X(18) OCCURS 3.
X7 $2$3D      03          G-$1-$4-X  PICTURE X.
X7 $2$3E      03          G-$1-$4-T  PICTURE 999.
X7 $2$3F      03          G-$1-$4-D  PICTURE 99.
X7 $2$3G      03          G-$1-$4-B  PICTURE X.
X7 $2$3H      03          G-$1-$4-S  PICTURE X.
X7 $2$3I      03          G-$1-$4-V  OCCURS 2.
X7 $2$3J      04          G-$1-$4-VL PICTURE X.
X7 $2$3K      04          G-$1-$4-VN PICTURE X.
X7 $2$3L      04          G-$1-$4-VS PICTURE X.
X7 $2$3M      04          G-$1-$4-VV PICTURE X(10).
X7 $2$3N      03          G-$1-$4-A  PICTURE X.
```

22.21. AATUFL MACRO-STRUCTURE

```

*USER      PASSW  LIBSESSI                                N
X0      AATUFLAATUFLTUF: 'LT' OR 'LH' LISTS              N      AATUFL  P
XM01 /AATUFLTHIS MACRO DESCRIBES THE WORKING AREA CORRESPON-
XM02 /AATUFLDING TO THE READ-ONLY FUNCTIONS OF THE TABLE
XM03 /AATUFLLIST 'LT' OR 'LH'.
XM10 /AATUFL$1 = CURSOR CODE ON 4C.
XM12 /AATUFL$2 = BEG. OF WORKING ON 2C.
XM14 /AATUFL$3 = NUMBER OF LIST ITEMS.
XM16 /AATUFL$4 = READ-ONLY FUNCTION 'LT' OR 'LH'.
X7  $2000 01      G-$1-CURSOR.
X7  $2010 02      G-$1-LENGTH PICTURE S9(4) COMP.
X7  $2100 02      G-$1-CURID PICTURE X(4) VALUE '$1'.
X7  $2110 02      G-$1-IDENT PICTURE X(25).
X7  $2120 02      G-$1-USER PICTURE X(8).
X7  $2130 02      G-$1-PASSW PICTURE X(8).
X7  $2140 02      G-$1-CTRAN PICTURE X(4).
X7  $2150 02      G-$1-CBASE PICTURE X(4).
X7  $2160 02      G-$1-FUNCT PICTURE XX VALUE '$4'.
X7  $2170 02      G-$1-RETCOD PICTURE XX.
X7  $2180 02      G-$1-ERRCOD PICTURE X(5).
X7  $2190 02      G-$1-ERRLAB PICTURE X(66).
X7  $2200 02      G-$1-NUTAB PICTURE X(6).
X7  $2210 02      G-$1-DATEC.
X7  $2220 03      G-$1-DATECC PICTURE XX.
X7  $2230 03      G-$1-DATECY PICTURE XX.
X7  $2240 03      G-$1-DATECM PICTURE XX.
X7  $2245 03      G-$1-DATECD PICTURE XX.
X7  $2250 02      G-$1-NBOCC PICTURE 9(4) VALUE $3.
X7  $2260 02      FILLER PICTURE X(178).
X7  $2270 02      G-$1-DESCR.
X7  $2300 03      G-$1-ELMNT OCCURS $3.
X7  $2400 04      G-$1-TABLE PICTURE X(6).
X7  $2410 04      G-$1-LABTB PICTURE X(36).
X7  $2420 04      G-$1-DATEH.
X7  $2430 05      G-$1-DATEHC PICTURE XX.
X7  $2440 05      G-$1-DATEHY PICTURE XX.
X7  $2450 05      G-$1-DATEHM PICTURE XX.
X7  $2460 05      G-$1-DATEHD PICTURE XX.
X7  $2470 04      G-$1-DATEM.
X7  $2480 05      G-$1-DATEMC PICTURE XX.
X7  $2490 05      G-$1-DATEMY PICTURE XX.
X7  $2500 05      G-$1-DATEMM PICTURE XX.
X7  $2510 05      G-$1-DATEMD PICTURE XX.
X7  $2520 04      G-$1-DATED.
X7  $2530 05      G-$1-DATEDC PICTURE XX.
X7  $2540 05      G-$1-DATEDY PICTURE XX.
X7  $2550 05      G-$1-DATEDM PICTURE XX.
X7  $2560 05      G-$1-DATEDD PICTURE XX.
X7  $2570 04      G-$1-LIB PICTURE XXX.
X7  $2580 04      G-$1-SESSI PICTURE X(5).
X7  $2590 04      G-$1-SEGM PICTURE X(4).

```


22.22. AATUFS MACRO-STRUCTURE

```
*USER      PASSW  LIBSESSI                                N
X0      AATUFS AATUFSTUF/ 'LS' OR 'LC' LIST                N      AATUFS  P
XM01 /AATUFSTHIS MACRO DESCRIBES THE WORKING AREA CORRESPON-
XM02 /AATUFSDING TO THE READ-ONLY FUNCTIONS OF
XM03 /AATUFSTHE SUB-SCHEMA OR SUB-SYSTEM LIST 'LC' OR 'LS'.
XM10 /AATUFSS1 = CURSOR CODE ON 4 C.
XM12 /AATUFSS2 = BEG. OF WORKING ON 2C.
XM14 /AATUFSS3 = NBRE OF LIST ITEMS.
XM16 /AATUFSS4 = READ-ONLY FUNCTION 'LS' OR 'LC'.
X7  $2000 01          G-$1-CURSOR.
X7  $2010 02          G-$1-LENGTH PICTURE S9(4) COMP.
X7  $2100 02          G-$1-CURID PICTURE X(4) VALUE '$1'.
X7  $2110 02          G-$1-IDENT PICTURE X(25).
X7  $2120 02          G-$1-USER PICTURE X(8).
X7  $2130 02          G-$1-PASSW PICTURE X(8).
X7  $2140 02          G-$1-CTAN PICTURE X(4).
X7  $2150 02          G-$1-CBASE PICTURE X(4).
X7  $2160 02          G-$1-FUNCT PICTURE XX VALUE '$4'.
X7  $2170 02          G-$1-RETCOD PICTURE XX.
X7  $2180 02          G-$1-ERRCOD PICTURE X(5).
X7  $2190 02          G-$1-ERRLAB PICTURE X(66).
X7  $2200 02          G-$1-NUTAB PICTURE X(6).
X7  $2210 02          G-$1-DATEC.
X7  $2220 03          G-$1-DATECC PICTURE XX.
X7  $2230 03          G-$1-DATECY PICTURE XX.
X7  $2240 03          G-$1-DATECM PICTURE XX.
X7  $2245 03          G-$1-DATECD PICTURE XX.
X7  $2250 02          G-$1-NBOCC PICTURE 9(4) VALUE $3.
X7  $2260 02          FILLER PICTURE X(178).
X7  $2270 02          G-$1-DESCR.
X7  $2300 03          G-$1-ELMNT OCCURS $3.
X7  $2400 04          G-$1-TABLE PICTURE X(6).
X7  $2410 04          G-$1-LABTB PICTURE X(36).
X7  $2420 04          G-$1-NUSCY PICTURE X.
X7  $2430 04          G-$1-LABSCY PICTURE X(36).
```

22.23. AATUFX MACRO-STRUCTURE

```

*USER      PASSW  LIBSESSI                                N
X0      AATUFXAATUFXTUF: LIST ITEMS                      N      AATUFX  P
XM01 /AATUFXTHIS MACRO DESCRIBES THE WORKING CORRESPONDING TO
XM02 /AATUFXA READ-ONLY FUNCTION USED FOR UPDATING OR READING
XM03 /AATUFXTHE TABLE.
XM04 /AATUFXIT IS NECESSARY TO USE THE 'AATUFA'MACRO AS WELL.
XM05 /AATUFX
XM10 /AATUFX$1 = CURSOR CODE ON 4C.
XM12 /AATUFX$2 = BEG. OF WORKING ON 2C.
XM14 /AATUFX$3 = NUMBER OF TABLE ITEMS EXTRACTED ON 4C.
XM16 /AATUFX$4 = NB OF DATA ELEMENTS OF THE TABLE ON 2C.
XM18 /AATUFX$5 = TABLE CODE ON 6C.
X7 $2000 01      G-$1-CURSOR.
X7 $2010 02      G-$1-LENGTH PICTURE S9(4) COMP.
X7 $2100 02      G-$1-CURID PICTURE X(4) VALUE '$1'.
X7 $2110 02      G-$1-IDENT PICTURE X(25).
X7 $2120 02      G-$1-USER PICTURE X(8).
X7 $2130 02      G-$1-PASSW PICTURE X(8).
X7 $2140 02      G-$1-CTAN PICTURE X(4).
X7 $2150 02      G-$1-CBASE PICTURE X(4).
X7 $2160 02      G-$1-FUNCT PICTURE XX.
X7 $2170 02      G-$1-RETCOD PICTURE XX.
X7 $2180 02      G-$1-ERRCOD PICTURE X(5).
X7 $2190 02      G-$1-ERRLAB PICTURE X(66).
X7 $2200 02      G-$1-NUTAB PICTURE X(6) VALUE '$5'.
X7 $2210 02      G-$1-DATEC.
X7 $2215 03      G-$1-DATECC PICTURE XX.
X7 $2220 03      G-$1-DATECY PICTURE XX.
X7 $2225 03      G-$1-DATECM PICTURE XX.
X7 $2230 03      G-$1-DATECD PICTURE XX.
X7 $2235 02      G-$1-NBOCC PICTURE 9(4) VALUE $3.
X7 $2245 02      G-$1-LABTB PICTURE X(36).
X7 $2250 02      G-$1-NUSSC PICTURE X.
X7 $2260 02      G-$1-LABSC PICTURE X(36).
X7 $2270 02      G-$1-NUSSY PICTURE X.
X7 $2280 02      G-$1-LABSY PICTURE X(36).
X7 $2285 02      G-$1-DAHTB.
X7 $2290 03      G-$1-DAHTBC PICTURE XX.
X7 $2295 03      G-$1-DAHTBY PICTURE XX.
X7 $2300 03      G-$1-DAHTBM PICTURE XX.
X7 $2305 03      G-$1-DAHTBD PICTURE XX.
X7 $2310 02      G-$1-KEY PICTURE X(20).
X7 $2320 02      FILLER PICTURE X(40).
X7 $2330 02      G-$1-DESCR.
X7 $2335 03      G-$1-ELTNB PICTURE 99 VALUE $4.
X7 $2340 02      G-$1-ELTD.
X7 $2345 03      FILLER PICTURE X(113) OCCURS $4.
X7 $2350 02      G-$1-ELTR REDEFINES G-$1-ELTD.
X7 $2900 02      G-$1 OCCURS $3.
X7 $2910 03      G-$1-CODMV PICTURE X.
X7 $2920 03      G-$1-ERROR PICTURE X(66).

```

22.24. LIST OF INSTALLED PROGRAMS

LIST OF INSTALLED PROGRAMS

This list is obtained through the \$prfj.LPTA job which executes the \$radp.LPTA procedure (see the procedure and JCL above).

It includes batch and on-line programs with their compilation date.

This list must be kept since you may be asked for installation references by IBM in case of a problem in the operation of Pactables.

INSTALLATION
LIST OF INSTALLED PROGRAMS

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```

//*****
//* VisualAge Pacbase Pactable 2.5 *
//*****
//* --- LIST OF INSTALLED PROGRAMS --- *
//*****
//$RADP.LPTA PROC ROOTT=$ROOTT, ROOT OF PACTABLES SYSTEM *
// INDUV='$INDUV', INDEX OF PACTABLES FILES *
// INDSN='$INDSN', NON VSAM FILES INDEX *
//*: VSAMCAT='$VCAT', VSAM USER CATALOG *
// STEPLIB='$MODB', LOAD-MODULE LIBRARY *
// MODT='$MODT', ON-LINE PROGRAM LIBRARY *
// OUT=$OUT, UTILITIES AND ERRORS OUTPUT CLASS *
// OUTL=$OUT, REPORT OUTPUT CLASS *
// UWK=$UWK, WORK UNIT *
// SPAMB='(TRK,(5,1),RLSE)' REQUEST-FILE SPACE *
//*****
//* INPUT : *
//* - FOR A LIST OF ALL PROGRAMS: ONE LINE SPECIFYING THE *
//* PACTABLES SYSTEM ROOT (COL.3, LENGTH 2) *
//* - FOR A SELECTION OF PROGRAMS: *
//* ONE LINE PER PROGRAM: PROGRAM CODE (COL.3, LENGTH: 6) *
//*****
//INPUT EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&LPTAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//VERIFY EXEC PGM=IDCAMS
//*****
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//PAC7TD DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//SYSIN DD DSN=&INDSN..&ROOTT.&ROOTT.SY(VERIFYTD),
// DISP=SHR
//PACXDT EXEC PGM=PACXDT
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
// DD DSN=&MODT,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7DT DD DSN=&INDUV..&ROOTT.00TD,
// DISP=SHR
//PAC7DS DD SYSOUT=&OUTL
//PAC7MB DD DSN=&&LPTAMB,DISP=(OLD,DELETE)
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT

```

INSTALLATION
LIST OF INSTALLED PROGRAMS

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```
//$PRFJ.LPTA JOB ($CCPT), 'PROGR.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* --- LIST OF INSTALLED PROGRAMS --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//LPTA EXEC $RADP.LPTA  
$ROOTT  
/*
```

22.25. UTILIZATION TESTS

UTILIZATION TESTS

The tests contain the following steps:

- . On-line utilization tests,
- . Batch tests for update, printing and reorganization,
- . Tests for tables generation.

The tests contain 3 tables:

- . 'TEMPER' without historical account,
- . 'CUSTOM' with historical accounts dated 03/01/85 and 03/10/85.
- . 'ARTICL' with historical account dated 01/15/87

On-line tests of the Pactables function:

- Open Pactables test files.
- Read-only access to all screens,
- Perform some updates.

Batch tests:

- Execute the PRTA procedure.
- Execute the EXTA procedure.
- Close Pactables files.
- Execute the UPTA procedure.

Reorganization of test tables:

- Backup (IDCAMS) TV and TD.
- Execute the reorganization (RETA) which contains:
 - . Reorganization of TV (prog. PTA400 and PTA410)
 - . Reorganization of TD (prog. PTA420)
 - . Building of TC backup file (prog. PTA430T)
- Restore TV and TD (RSTA)
 - . Execute a printing of the tables (PRTA) for verification.
 - . Open the files and perform some on-line reorganization validation tests.

Test for table generation (GETT procedure)

- Close the files.
- Execute extraction within VA PAC (GETA or GETD).
- Execute GETT.
- Verify the execution.
- Re-open the files under CICS and perform some verification tests.

INSTALLATION
TEST JCL: INTA

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22.26. TEST JCL: INTA

```
//$PRFJ.INTA JOB ($CCPT),'INIT',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
//* --- TEST OF THE INTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//INTA EXEC $RADP.INTA  
C.G.I. ESSAI F 1234567 ABC
```


INSTALLATION
TEST JCL: GETT

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22.27. TEST JCL: GETT

```
//$PRFJ.GETT JOB ($CCPT), 'GENERATION', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
//* --- TEST OF THE GETT PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//**** INSERT HERE GETA OR GETD (SEE VA PAC 2.5)  
//GETT EXEC $RADP.GETT,MD='&&MD'
```

INSTALLATION
TEST JCL: PRTA

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22.28. TEST JCL: PRTA

```
//$PRFJ.PRTA JOB ($CCPT), 'PRINT', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
//*          --- TEST OF THE PRTA PROCEDURE ---  
//*****  
// JCLLIB ORDER=( $BIBP )  
//PRTA      EXEC $RADP.PRTA  
      *****SUPER  
EACUSTOM03101985  
EATEMPER
```

INSTALLATION
TEST JCL: IMTA

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22.29. TEST JCL: IMTA

```
//$PRFJ.IMTA JOB ($CCPT),'IMPORT',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//* --- TEST OF THE IMTA PROCEDURE ---  
//*****  
// JCLLIB ORDER=( $BIBP )  
//IMTA EXEC $RADP.IMTA,TABF='...'  
*****SUPER  
A?????
```

22.30. TEST JCL: UPTA

```
//$PRFJ.UPTA JOB ($CCPT), 'UPDATE', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * --- TEST OF THE UPTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=($BIBP)  
//UPTA EXEC $RADP.UPTA  
*****SUPER  
ACUSTOM03101985 *  
AV 44190  
V 5555333***ATHENS*  
V 6666333***MOSCOW*  
V 8899000***PEKING*  
AV 3333111  
V 6666111*MARAVEN*BOLIVAR*CARACAS*22300*VENEZUELA*3  
ATEMPER /  
V GUAYAQUIL/0F 75 0C 24/0F 75 0C 24/0F 78 0C 25/0F 78 0C 25  
V-/0F 78 0C 25  
V-/0F 78 0C 25/0F 80 0C 27/0F 80 0C 27/0F 78 0C 25/0F 78 0C 25  
V-/0F 78 0C 25/0F 75 0C 24/  
V PARIS////0F 58 0C 14/  
V FRANKFURT/0F 30 0C -1/0F 32 0C 0/0F 39 0C 4/0F 46 0C 7  
V-/0F 55 0C 13  
V-/0F 60 0C 15/0F 64 0C 18/0F 63 0C 17/0F 57 0C 14/0F 48 0C 9  
V-/0F 38 0C 4  
V-/0F 33 0C 1/  
AV FRANKFORT
```

22.31. TEST JCL: SVTA

```
//$PRFJ.SVTA JOB ($CCPT), 'SVTA', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- TEST OF THE SVTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//SVTA EXEC $RADP.SVTA
```

INSTALLATION
TEST JCL: RSTA

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22.32. TEST JCL: RSTA

```
//$PRFJ.RSTA JOB ($CCPT), 'RSTA', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- TEST OF THE RSTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//RSTA EXEC $RADP.RSTA
```

INSTALLATION
TEST JCL: RETA

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22.33. TEST JCL: RETA

```
//$PRFJ.RETA JOB ($CCPT), 'REORG', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- TEST OF THE RETA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//RETA EXEC $RADP.RETA  
*****SUPER  
GACUSTOM03101985  
GATEMPER
```

22.34. TEST JCL: PMTA

```
//$PRFJ.PMTA JOB ($CCPT), 'PARAM.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* --- TEST OF THE PMTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//PMTA EXEC $RADP.PMTA  
*****TASUPER  
*****TJ000100//$PRFJ.PRTA JOB ($CCPT), 'PRTA', CLASS=$CLASSJ,  
*****TJ000200// MSGCLASS=$MSGCL  
*****TJ000300//PRTA EXEC $RADP.PRTA  
USER1 TAUSER1 2
```


22.35. TEST JCL: EXTA

```
//$PRFJ.EXTA JOB ($CCPT), 'EXTRACTION', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
// * --- TEST OF THE EXTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//EXTA EXEC $RADP.EXTA  
*****SUPER  
ACUSTOM03101985  
/*  
// * EXTRACTED TRANSACTIONS FILE  
//PTA160.PAC7NU DD DSN=---.---.---, DISP=SHR
```

INSTALLATION
TEST JCL: TUTA

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22.36. TEST JCL: TUTA

```
//$PRFJ.TUTA JOB ($CCPT), 'EXPLOI.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// * --- TEST OF THE TUTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//TUTA EXEC $RADP.TUTA  
*****SUPER  
ACUSTOM31101985  
ATEMPER
```

22.37. TEST JCL: TCTA

```
//$PRFJ.TCTA JOB ($CCPT),'TCTA',CLASS=$CLASSJ,  
//      MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//*          --- TEST OF THE TCTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//TCTA EXEC $RADP.TCTA,SAVIN=---.---.---  
//* (DEFAULT: SAVIN = GENERATION 0 OF TC'S DATA GROUP)  
//* OUTPUT TC FILE (DEFAULT: GENERATION +1 OF DATA GROUP)  
//PTATC2.PAC7TC DD DSN=---.---.---,DISP=SHR
```

22.38. TEST JCL: CDT1 (DTM)

```
//$PRFJ.CDT1 JOB ($CCPT),'EXPLOI.',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//* --- TEST OF THE CDT1 PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//CDT1 EXEC $RADP.CDT1,  
//* TDMAST = 'MASTER' TABLE-DESCRIPTION FILE  
//* TDSLAV = 'SLAVE' TABLE-DESCRIPTION FILE  
//* XD = EXTRACTED-DESCRIPTION FILE  
// TDMAST=---.---.---,TDSLAV=---.---.---,XD=---.---.---  
*****SUPER  
ACUSTOM  
ATEMPER  
/*
```

22.39. TEST JCL: CDT2 (DTM)

```
//$PRFJ.CDT2 JOB ($CCPT), 'EXPLOI.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* VisualAge Pacbase Pactable 2.5 *  
//*****  
//*****  
//* --- TEST OF THE CDT2 PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//CDT2 EXEC $RADP.CDT2,  
//* TDSLAV = 'SLAVE' TABLE-DESCRIPTION FILE  
//* TVSLAV = TABLES ASSOCIATED TO 'SLAVE' DESCRIPTION  
//* XD = FILE OF TABLE-DESCRIPTIONS EXTRACTED IN CDT1  
// TDSLAV=---.---.---,TVSLAV=---.---.---,XD=---,---,---
```

INSTALLATION
TEST JCL: CVTA (DTM)

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22.40. TEST JCL: CVTA (DTM)

```
//$PRFJ.CVTA JOB ($CCPT), 'EXPLOI.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
// * VisualAge Pacbase Pactable 2.5 *  
//*****  
// *  
// * --- TEST OF THE CVTA PROCEDURE ---  
//*****  
// JCLLIB ORDER=( $BIBP )  
//CVTA EXEC $RADP.CVTA,  
// * TD = TABLE-DESCRIPTION FILE  
// * TV = FILE OF TABLES ASSOCIATED TO DESCRIPTIONS  
// TD=---.---.---,  
// TV=---.---.---  
*****SUPER  
SACUSTOM31101985 31101987
```

22.41. PACTABLES STANDARD REINSTALLATION

STANDARD REINSTALLATION OF THE SYSTEM

The Pactables function should be reinstalled when a new sub-release is shipped containing improvements upon the preceding release.

The new version is identified by a number and is delivered in the following form:

- . A complete installation tape of the product,
- . The list of corrected bugs,
- . Possibly, a note completing the set of instructions described in this subchapter.

Generally, only the program libraries and the error and documentation file (TE) are affected by the new version.

Therefore, re-installation most often involves execution of the following jobs (using either the tape's JCLs or those used in previous (re-)installation):

1. COPY OF THE INSTALLATION TAPE

PACBASE0 job on the initial tape (INST.JCL, (1,SL)).

2. RETRIEVAL OF INSTALLATION JCL

PACBASE2 job on the initial tape (INST.JCL, (1,SL)).

NOTE: If the JCL modules required for the installation were kept since the previous (re-)installation, the PACBASE2 job need not be executed.

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

Add in the SYSIN the following JCL module selection lines:

```
====SELM TO1PGM  
====SELM TO1SFI
```

ADDITIONAL selection lines may be also be required: in this case, they are precised in a set of instructions provided with the tape.

The JCL modules being either obtained by this job or retrieved from previous (re-)insatallation, the reinstallation is carried out through the jobs described below. below.

3. LOADING OF BATCH AND ON-LINE LOAD-MODULES

\$prfj.TI2 job (===MOD TI2PGM)

Warning: This jobs deletes all load-module libraries, allocates them and copies all programs. Two procedural methods may be used:

- . Complete job execution: In this case, programs stored in the library which are not directly originated from the installation tape (user programs) must be backed up before execution of the job.
- . Execution of the COPY step (IEBCOPY): In this case, it is recommended to previously delete the programs which are to be copied, in order to avoid space problems in the library.

4. RELOADING OF THE ERROR MESSAGE AND DOCUMENTATION FILE

\$prfj.TI3 job (===MOD TI3SFI)