



VisualAge Pacbase 2.5

**PACTABLES 2.5 – IBM MVS, IMS
OPERATIONS MANUAL**

DETIM000252A

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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 Pactables 2.5.

HOW TO USE THIS MANUAL FOR SYSTEM INSTALLATION

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

- . The 2.5 Release must be 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 with the former release existing data.

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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 of 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 PROGRAMS LIBRARY

THE ON-LINE PROGRAMS LIBRARY: MTR8

Its size is approximately 20 tracks (3380 disk unit).

The table below lists these programs.

| CODE | OPERATION AND MEANING |
|-------------|--|
| \$ROOT.FT00 | Table extraction (TUF-TP facility) |
| \$ROOT.FT90 | User Interface (TUF-TP facility) |
| \$ROOT.P500 | Initial screen |
| \$ROOT.P501 | Initial screen preparation |
| \$ROOT.P510 | C1: read-write access to mono-item with CR, MO, DE for updating |
| \$ROOT.P520 | C2: read-only access to multi-item with DE for an item deletion |
| \$ROOT.P530 | LT : list of tables |
| \$ROOT.P540 | LS : list of sub-schemas/sub-systems |
| \$ROOT.P550 | LD : list of documentation |
| \$ROOT.P560 | C3 : consultation of archived item |
| \$ROOT.P570 | C? : 'HELP' screen |
| \$ROOT.P580 | LH : list of historical accounts |
| \$ROOT.P590 | LJ LE : JOB function print requests |
| \$ROOT.P599 | Display system errors |
| \$ROOT.P600 | Update passwords and language |
| \$ROOT.P601 | Password/Language code screen preparation |
| \$ROOT.P610 | User code updating ('DTM' option) |
| \$ROOT.P620 | Access authorization updating ('DTM' option) |
| \$ROOT.PLNK | Access to the Pactables transaction by user transactions |
| \$ROOT.R980 | Message formatting sub-program |
| PACXSY | OS/VS1 - MVS 'JOB' function |
| MVSJOB | MVS 'JOB' function |
| PACSECB | Security System sub-program (SEC extension) |

\$ROOT = 2-character prefix for Pactables.

Example: P2P510 (\$ROOT='P2').

IMPORTANT

Two additional programs (P512 and P522) are supplied since Pactables 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.

With Pactables 2.0 and higher, 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 PROGRAMS LIBRARY

THE BATCH PROGRAMS LIBRARY: MBR8

Its size is approximately 35 tracks (3380 disk-unit).

The table below lists these programs.

| ! CODE | ! PROC.! | ! OPT.! | ! MEANING | ! |
|----------|----------|---------|--|---|
| ! PTU001 | ! all | ! | ! Include input transactions | ! |
| ! PTAD05 | ! CDT1 | ! DTM | ! DTM option: Table descr. comparison | ! |
| ! PTAD10 | ! -- | ! DTM | ! -- -- -- | ! |
| ! PTAD20 | ! CDT2 | ! DTM | ! DTM option: Table descr. updating | ! |
| ! PTAINI | ! INTA | ! | ! TD and TV db's initialization | ! |
| ! PTARSD | ! RSTA | ! | ! TD database restoration | ! |
| ! PTARSV | ! - | ! | ! TV database restoration | ! |
| ! PTARSG | ! - | ! | ! TG database restoration | ! |
| ! PTAR20 | ! RTTA | ! | ! Retrieval Pactables 8.02/1.2 -> 2.0! | ! |
| ! | ! R3TA | ! | ! Retrieval Pactables 7.3 | ! |
| ! PTABVS | ! BVTA | ! | ! Copy TD, TV base onto VSAM files | ! |
| ! PTASTD | ! GETA | ! | ! Table generation | ! |
| ! PTASVD | ! SVTA | ! | ! TD database backup | ! |
| ! PTASVV | ! - | ! | ! TV database backup | ! |
| ! PTASVG | ! - | ! | ! TG database backup | ! |
| ! PTAT10 | ! LDTE | ! | ! Load TE Error Message database | ! |
| ! PTAT15 | ! LDTG | ! | ! Load TG User Codes database | ! |
| ! PTAT17 | ! LDTZ | ! | ! Load TZ SPA database | ! |
| ! PTAU80 | ! TUTA | ! | ! Direct consultation of tables | ! |
| ! PTAV10 | ! CVTA | ! DTM | ! DTM option: Table comparison | ! |
| ! PTAV20 | ! -- | ! DTM | ! -- -- -- | ! |
| ! PTAXDT | ! LPTA | ! | ! List of installed modules | ! |
| ! PTAXVD | ! R3TA | ! | ! Retrieval Pactables 7.3 | ! |
| ! PTAXVV | ! R3TA | ! | ! -- -- -- | ! |
| ! PTAXVG | ! R3TA | ! | ! -- -- -- | ! |
| ! PTA100 | ! PMTA | ! | ! Update of user codes | ! |
| ! PTA120 | ! -- | ! | ! -- -- -- | ! |
| ! PTA150 | ! EXTA | ! | ! Extract TABLES (MJTA trans.) | ! |
| ! PTA160 | ! -- | ! | ! -- -- -- | ! |
| ! PTA250 | ! GETT | ! | ! Table generation | ! |
| ! PTA290 | ! -- | ! | ! Table generation / list printing | ! |
| ! | ! LDTA | ! | ! -- -- -- | ! |
| ! PTA300 | ! UPTA | ! | ! Table updating | ! |
| ! PTA310 | ! IMTA | ! | ! Table import | ! |
| ! PTA320 | ! PRTA | ! | ! Table printing | ! |
| ! PTA350 | ! UPTA | ! | ! Table updating / printing | ! |
| ! | ! PRTA | ! | ! -- -- -- | ! |
| ! PTA360 | ! UPTA | ! | ! Table updating / printing | ! |
| ! | ! PRTA | ! | ! -- -- -- | ! |

BATCH Programs (cont'd)

| ! CODE | ! PROC.! | ! OPT.! | ! MEANING | ! |
|-----------|-----------|---------|-------------------------------------|-------|
| ! PTA400 | ! RETA | ! | ! Table reorganization | ! |
| ! PTA410 | ! -- | ! | ! -- -- -- | ! |
| ! PTA420 | ! -- | ! | ! -- -- -- | ! |
| ! PTA430 | ! -- | ! | ! -- -- -- | ! |
| ! PAP822 | ! sub-pgm | ! | ! Optimized table access | ! |
| ! PAP820 | ! - | ! | ! Optimized table access | ! |
| ! | ! | ! | ! (for COBOL VS environment) | (2) ! |
| ! PAP922 | ! - | ! | ! Table access by user program | ! |
| ! PAP920 | ! - | ! | ! Table access by user program | ! |
| ! | ! | ! | ! (for COBOL VS environment) | (2) ! |
| ! PACSECB | ! - | ! | ! Security System | (3) ! |
| ! PTATCD | ! TCTA | ! | ! Sort of TD file | ! |
| ! PTATCG | ! - | ! | ! Sort of TG file | ! |
| ! PTATCV | ! - | ! | ! Sort of TV file | ! |
| ! PTATC1 | ! - | ! | ! Sort TC according to type of file | ! |
| ! PTATC2 | ! - | ! | ! Reconstitution of sorted TC | ! |

NOTES

(2) These access programs are to be used in a COBOL VS user environment.

SECURITY SYSTEMS INTERFACE EXTENSION (SEC)

The optional sub-program PACSECB interfaces the Pactables function with the site's security system when this extension has been selected.

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.TSYS' job.)

Refer to the VISUALAGE PACBASE SECURITY SYSTEMS INTERFACE manual for more information on how to use this extension.

IMPORTANT NOTE:

Two other programs (PTA302 and PTA312) are supplied since release 2.0.

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'.

With Pactables 2.0 and higher, 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.

2.4. THE VA PAC MACRO-STRUCTURES LIBRARY

THE TUF-TP 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 table items                       !
-----+-----+
```

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

They allow 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 update 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 PARAMETERS LIBRARY

THE PARAMETER LIBRARY: SY

Its size is approximately 5 tracks (on a 3380 disk-unit). It contains:

.The DEFINE and VERIFY of VSAM files:

The DELETE/DEFINE of each of Pactables VSAM file is named using the following convention:

DF\$ROOT.\$FILE.xx (with xx=AD, AV, DD, TD, TG, TU, TV, TS, TW, T1 and TB), and DF\$ROOT.\$ROOT.xx (with xx = TE, TZ),

Example: DFP200TD or DFP2P2TE.

The VERIFYs of each of the VSAM files of the Pactables function are named as VERIFxx

(\$ROOT = 2-character prefix, \$FILE = 2-character database number.)

.The DL/1 Source files:

PACDxx\$SUF : DBDs with xx=TD, TE, TG, TU, TV, TZ, T1, TB.
\$SUF=2 characters (DBD suffix):
Example: PACDTV22 (\$SUF = '22').
PTAyyy\$SUG : PSBs of the batch programs, with yyy=last
3 characters of the program codes,
\$SUG = 2 characters (Batch PSB suffix):
Example: PTA15022 (\$SUG = '22').
\$ROOT.Pzzz : PSBs of the on-line programs, with zzz=last
3 characters of the program codes,
\$ROOT = 2 character-prefix:
Example: P2P510 (\$ROOT = 'P2').
(See the list of batch and on-line programs.)

.The initial record for the TG, TZ and TB databases:

LD\$ROOT.\$FILE.TG
LD\$ROOT.\$ROOT.TZ
LD\$ROOT.\$FILE.TB

.The SYSIN used for TG loading:

SY\$ROOT.\$FILE.TG

.The BLDG of the TC generation file:

The request to build the indexes of the Pactables TC backup file is listed under the name BL\$ROOT.\$FILE.TC.

.The DFSVSAMP:

The VSAM Control Cards for buffers are listed under the name DFSVSAMn (n = 8 or 9). These cards are initialized with the standard values at installation, but their management is the responsibility of the Product Systems Manager.

.The Macro-instructions 'APPLCTN' and 'TRANSACT':

The set of macro-instructions that were defined in the IMS Control Region are listed under PACTCTRL. This PDS is controlled by the system staff.

NOTE:

Any modification made on tables characteristics must be made in the SY library.

2.6. THE SYSTEM FILES

THE 'SYSTEM' FILES AND DATABASES

They represent the system itself. These files and databases are not modified by daily handlings, and they must be reloaded whenever the system needs to be re-installed.

.The library of batch load modules: (MBR8)

.Size : 35 tracks (3380 disk unit)
.Blksize : 6,144

.The library of on-line load modules: (MTR8)

.Size : 20 tracks (3380 disk unit)
.Blksize : 6,144

.The library of parameters (PDS) SY:

.Size : 05 tracks (3380 disk unit)
.Blksize : 6,080

.The database containing the error messages and automatic HELP documentation of the Pactables function (TE):

.Size : Approx. 1,000 records
.Organization : DL/1 HISAM
.DSN : \$INDEX..\$ROOT.\$ROOT.TE
.DBD : PACDTE\$\$SUF
.Record len. : 98 bytes
.Segment len. : 90 bytes

NOTE: The error message database is loaded from a source file (IN):

.Size : Approx. 700 records
.Organization : Sequential
.DSN : \$INDEXP..\$ROOT.\$ROOT.IN
.LRECL : 90 bytes
.BLKSIZE : 1,800 bytes

For the IMS version, the Pactables system uses two other libraries:

a DBD library (DBDLIB)
a PSB library (PSBLIB)

THE DBD LIBRARY

.Organization : PDS
.DSN : (chosen at installation)
.DCB : (RECFM=U,BLKSIZE=6,144)
.Size : 01 track (3380 disk unit)

THE PSB LIBRARY

.Organization : PDS
.DSN : (chosen at installation)
.DCB : (RECFM=U,BLKSIZE=6,144)
.Size : 06 tracks (3380 disk-unit)

2.7. THE EVOLVING FILES

EVOLVING FILES AND DATABASES

They contain the User information and are managed by the system, either in on-line or batch mode:

Pactables Database (TD Database: Table Descriptions)

.Organization : DL/1 HISAM Database
.DSN : \$INDEX..\$ROOT.\$FILE.TD
.DBD : PACDTD\$SUF
.Segment lgth : 240 bytes
.Record lgth : 248 bytes
.Space : 16 records per C.I. of 4,096

Pactables Database (TU: Primary Index of TV)

.Organization : TV VSAM INDEX
.DSN : \$INDEX..\$ROOT.\$FILE.TU
.DBD : PACDTU\$SUF
.Segment lgth : 35 bytes
.Record lgth : 40 bytes
.Space : 25 records per C.I. of 1,024

Pactables Database (TV Database: Table contents)

.Organization : DL/1 HIDAM Database
.DSN : \$INDEX..\$ROOT.\$FILE.TV
.DBD : PACDTV\$SUF
.Segment lgth : 80 to 1,100 bytes
.Record lgth : 4,089 bytes
.Space : according to the length of the tables

Pactables Database (TG Database: User codes)

.Organization : DL/1 HISAM Database
.DSN : \$INDEX..\$ROOT.\$FILE.TG
.DBD : PACDTG\$\$SUF
.Segment lgth : 85 bytes
.Record lgth : 94 bytes
.Space : 43 records per C.I. of 4,096.

Pactables Database (SPAs' TZ Database)

.Organization : DL/1 HISAM Database .DSN :
\$INDEX..\$ROOT.\$ROOT.TZ .DBD : PACDTZ\$\$SUF .Segment
lgth : 8,500 bytes .Record lgth : 8,510 bytes .Space : 1 record per
C.I. of 10,240

Pactables (T1 Database TB primary index)

.Organization : VSAM TB index .DSN :
\$INDEX..\$ROOT.\$FILE.T1 .DBD : PACDT1\$\$SUF .Segment
lgth : 63 bytes .Record lgth : 68 bytes .Space : 15 records per C.I.
of 1,024

Pactables (TB Database working file TUF-TP)

.Organization : DL/1 HIDAM Database .DSN :
\$INDEX..\$ROOT.\$FILE.TB .DBD : PACDTB\$\$SUF .Segment
lgth : 80 to 1,140 bytes .Record lgth : 4,089 bytes .Space :
according to the length of the tables.

Pactables Database Backup File (TD, TV, TG)

.Organization : Sequential with generation .DSN :
\$INDEXQ..\$ROOT.\$FILE.TC .DCB :
(RECFM=VB,LRECL=1,067,BLKsize=10,674) .Space : 240 bytes
for the descriptions (TD) : 80/1,061 bytes for the contents (TV)

This is a standardized Pactables backup file in sequential format: descriptions (TD), contents (TV) and authorizations (TG).

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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ENVIRONMENT

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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 required to run the system.

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

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

3.2. ON-LINE ENVIRONMENT

ON-LINE ENVIRONMENT

The Monitor used for TP Pactables is IMS/DC.

Since Version 2.5 of Pactables, the MFS system is bypassed by the use of the DFS.EDTN standard module for the receiving and display of messages.

The formatting of messages is managed by the xxR980 sub-program found in the on-line programs library.

.Two transaction codes are to be declared in IMS to access Pactables:

- \$STRANT transaction code of connection to Pactables,
- \$STRANP transaction code of Users management.

. The various Pactables on-line transactions to be declared in IMS are transactional and use a SPA with a length of 150.

3.3. ACCESS METHODS

GENERAL PRINCIPLES

Pactables is its own DBMS. It only uses DL/1 to store the records that support its physical organization.

Thus:

- . The user cannot directly access Table data via DL/1 standard utilities. This can be done only via utilities provided with Pactables.

- . DL/1 resources are seldom used by the Pactables function. In particular, all databases are made up of a single root segment.

There are no dependent segments and the DBRs have fixed length (except those belonging to the TV database and whose lengths are variable).

- . Secondary indexes and logical relationships are never used. Therefore, the ratio 'physical accesses' / 'DL/1 accesses' is considerably lower than in current applications.

DATABASE ORGANIZATION

Two types of DL/1 Database organizations are used: HISAM and HIDAM.

HISAM-VSAM Databases

This organization is used for the following databases: table descriptions (TD), User Codes (TG), Error Messages and documentation (TE), and the SPAs Database (TZ).

The DL/1 physical record contains one and only one complete DBR, i.e. only one VisualAge Database record plus DL/1 control data. There is no DATASET OVERFLOW. The size of the database is calculated directly from the number of logical records, the size of the record and the FREE SPACE requested during the DEFINE of the file.

HIDAM-VSAM Databases

This organization is used for the database that contains the table contents (TV) and whose primary index is built by the TU database. It is also used for the TUF-TP (TB) work database whose primary index is built by the database (T1).

Each DBR of these databases contains a single ROOT segment whose size may vary between 80 and 1,100 bytes for TV and between 80 and 1,140 bytes for TB.

3.4. BATCH ENVIRONMENT

BATCH ENVIRONMENT

In batch mode, the running of the system uses standard functions of the operating system.

The memory size required for the execution of batch procedures vary mainly according to the size of buffers allocated to the files used by these procedures.

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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 performed in case of abnormal execution.
- . A description of user input, processing executed, and results, plus - if needed - specific recommendations on use.
- . A description of steps:
 - symbolics or parameters used,
 - list of the files used (temporary or permanent),
 - 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)
- .Transfer of TD-TV databases in VSAM files (BVTA)
- .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).
(not for IMS).

NOTE

Pactables does not provide a journal of update transactions.

4.3. ABNORMAL EXECUTIONS

ABNORMAL EXECUTIONS

Generally, all batch programs may end abnormally. Specifically, I/O errors on the system's database provoke an abnormal end via an OC7 ABEND accompanied by an error message on the SYSOUT file.

In case of an abend, the user must first locate the error message, displayed as follows:

```
***** END OF RUN DUE TO AN INPUT-OUTPUT ERROR,  
PROVOKED ABEND
```

```
-----  
FILE : ff OPER : oo KEY : kkkkkkkkkkkkkkkkkkkkk  
NAME OF DATABASE : DBDNAME  
NAME OF SEGMENT : SEGmname  
RETURN CODE : rc  
PROCESSING OPTION : PROCOPT  
-----
```

Library code, Session number, Date of compile, Program code.

If the message is absent and the ABEND is caused directly by the VA Pac system, contact the IBM Technical Support and save all listings that may be needed to analyse 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 tables descriptions 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).

EXECUTION CONDITION

TV and TD files being updated by this procedure, access to on-line use must be closed.

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! | ! | ! Not used! |
| ! 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

INPUT RECOGNITION: PTU001

DEFINITION OF FILES: IDCAMS

| | |
|-----------------------------|---------------|
| -Tables descriptions file : | PAC7TD |
| DSN=&INDEX..&ROOT.&FILE.TD | |
| -Tables contents file : | PAC7TV-PAC7TU |
| DSN=&INDEX..&ROOT.&FILE.TV | |
| DSN=&INDEX..&ROOT.&FILE.TU | |

INITIALIZATION OF FILES: PTAINI

.Input file
PAC7MD

.Output files:
-Tables Descriptions File
DSN=&INDEX..&ROOT.FILE.TD
-Table Contents File : PAC7TV-PAC7TU
DSN=&INDEX..&ROOT.FILE.TV
DSN=&INDEX..&ROOT.FILE.TU

.Output report:
-Initialization review
PAC7ED

5.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - INITIALIZATION OF TABLE MANAGEMENT FILE - *
//*****
//$RADP.INTA PROC ROOT=$ROOT, ROOT OF VA PAC SYSTEM
// FILE=$FILE, NUMBER OF PHYSICAL DATABASE
// INDEX='$INDEX', VSAM INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
//*: VSAMCAT='$CATU', VSAM USER CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SPAMB='(TRK,(1,1),RLSE)', SPACE MB FILE
// OUT='$OUT', OUTPUT CLASS
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//COPY EXEC PGM=PTU001
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&INTAMB,DISP=(,PASS),UNIT=$UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//DEFINE EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TV),DISP=SHR
//PTAINI EXEC PGM=DFSRRC00,REGION=$REGSIZ,
// PARM=(DLI,PTAINI,PTAINI$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7MD DD DSN=&&INTAMB,DISP=SHR
//PAC7TD$SUG DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUG DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUG DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7ED DD SYSOUT=&OUT
//*

```

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TD-TV DATABASES ON VSAM FILES

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6. TD-TV DATABASES ON VSAM FILES (BVTA)

6.1. INTRODUCTION

COPY OF TD-TV DATABASES ONTO VSAM FILES (BVTA)

This utility function executes the PTABVS program used to copy the TD and TV DL/1 databases onto VSAM files.

EXECUTION CONDITION

None since the database is not updated.

6.2. DESCRIPTION OF STEPS

GETT: DESCRIPTION OF STEPS

DEFINITION OF FILES: IDCAMS

-Tables descriptions file : PAC7TS
 DSN=&INDEX..&ROOT.&FILE.TS
-Tables contents file : PAC7TW
 DSN=&INDEX..&ROOT.&FILE.TW

VERIFICATION OF VSAM FILES: IDCAMS

COPY OF DATABASES ONTO VSAM FILES: PTABVS

.Input files:

-Tables descriptions file : PAC7TD
 DSN=&INDEX..&ROOT.&FILE.TD
-Fichier des contenus de tables : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU

.Output files:

-Tables descriptions file : PAC7TS
 DSN=&INDEX..&ROOT.&FILE.TS
-Tables contents file : PAC7TW
 DSN=&INDEX..&ROOT.&FILE.TW

6.3. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - COPY OF TD-TV DATABASES ONTO TS-TW VSAM FILES- *
//*****
//$RADP.BVTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM FILE INDEX
// INDEXP='$INDEXP', NON-VSAM FILE INDEX
// STEPLIB='$MODB', BATCH PROGRAM LIBRARY
//*: VSAMCAT='$CATU', USER VSAM CATALOG
// OUT='$OUT', OUTPUT CLASS
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', DBD LIBRARY
// PSBLIB='$PSBLIB', PSB LIBRARY
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----
//DEFINE EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TW),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TS),DISP=SHR
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTABVS EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTABVS,PTABV$$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7TS DD DSN=&INDEX..&ROOT.&FILE.TS,DISP=SHR
//PAC7TW DD DSN=&INDEX..&ROOT.&FILE.TW,DISP=SHR
//*

```

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TABLE GENERATION

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7. TABLE GENERATION

(GETT)

7.1. INTRODUCTION

GETT: TABLE GENERATION

INTRODUCTION

This procedure updates the tables descriptions file using the tables descriptions extracted from the VisualAge Pacbase Database, and initializes the generated tables in the Tables 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 tables descriptions used in input by the GETT procedure.

The TD and TV files being updated by this procedure, access to on-line use must be closed if this procedure is executed in a DLIBATCH.

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

When a very large update (in terms of number of transactions) is run, it may be necessary to precede the execution of this procedure by 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.

7.2. DESCRIPTION OF STEPS

GETT: DESCRIPTION OF STEPS

VERIFICATION OF VSAM FILES: IDCAMS

UPDATE OF TABLE FILES: PTA250

.Permanent input-output files:

-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

-Table-contents file :
DSN=&INDEX..&ROOT.&FILE.TV
DSN=&INDEX..&ROOT.&FILE.TU

PAC7TV-PAC7TU

-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:

-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

.Transaction input file:

-Print request
PAC7TE : DSN=&&DE

.Output report:

-Printout of descriptions
PAC7ID

7.3. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - GENERATION OF TABLES (PACTABLES SITE) - *
//*****
//$RADP.GETT PROC FILE=$FILE, PHYSICAL DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM INDEX
// INDEXP='$INDEXP', NON-VSAM FILE INDEX
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// MD='$INDEX..$ROOT.$FILE.MD', GENERATED DESCRIPTION DSN
// SPAWK='(TRK,(50,10),RLSE)', SPACE OF WORK FILES
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA250 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(BMP,PTA250,PTA250$SUG,&IN,&OUT1,
// &OPT&SPIE&TEST&DIRCA,&PRLD,&STIMER,&CKPTID,
// &PARDLI,&CPUTIME,&NBA,&OBA,&IMSID,&AGN)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7MD DD DSN=&MD,DISP=SHR
//PAC7TK DD DSN=&&DE,DISP=(,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600),
// SPACE=&SPAWK
//PAC7ET DD SYSOUT=&OUTL
//*

```

```
//PTA290 EXEC PGM=DFSRRC00,REGION=$REGSIZ,  
// PARM=(DLI,PTA290,PTA290$$SUG,&BUF,  
// &SPIE&TEST&EXCPVR&RST,&PRLD,  
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)  
//STEPLIB DD DSN=&RESLIB,DISP=SHR  
// DD DSN=&STEPLIB,DISP=SHR  
//DFSRESLB DD DSN=&RESLIB,DISP=SHR  
//IMS DD DSN=&PSBLIB,DISP=SHR  
// DD DSN=&DBDLIB,DISP=SHR  
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR  
//*: DD DSN=&VSAMCAT,DISP=SHR  
//SYSOUT DD SYSOUT=&OUT  
//SYSOUX DD SYSOUT=&OUT  
//DDSNAP DD SYSOUT=&OUT  
//PROCLIB DD DSN=&PROCLIB,DISP=SHR  
//IEFRDER DD DUMMY,  
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)  
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,  
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)  
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,  
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)  
//IMSMON DD DUMMY  
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR  
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR  
//PAC7TE DD DSN=&&DE,DISP=(OLD,PASS)  
//PAC7ID DD SYSOUT=&OUTL  
//*
```

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TABLES - EXPLOITATION & INSTALLATION
TABLE UPDATE

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8. TABLE UPDATE

(UPTA)

8.1. 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 UPTA, access to on-line use must be closed if this procedure is executed in a DLIBATCH.

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 precede the execution of this procedure by 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 available with Pactables 2.0 and higher.

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 and higher, 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.

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 update:

| !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 number | ! |
| ! ! | ! ! | ' ' | ! No sub-system specified | ! |
| ! ! | ! ! | 1 to 0 | ! Sub-system number | ! |
| ! 19 ! | 1 ! | | ! Data delimiter | ! |
| ! ! | ! ! | ' ' | ! Considered as '/' by 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 | ! |

8.3. DESCRIPTION OF STEPS

UPTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE UPDATE: PTA300

.Permanent input files:

- Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD
- Error-message file
DSN=&INDEX..&ROOT.&ROOT.TE
- User parameters file
DSN=&INDEX..&ROOT.&FILE.TG

.Permanent input-output file:

- Tables contents file : PAC7TV-PAC7TU
DSN=&INDEX..&ROOT.&FILE.TV
- DSN=&INDEX..&ROOT.&FILE.TU

.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:
-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD
-Tables contents files : PAC7TV-PAC7TU
DSN=&INDEX..&ROOT.&FILE.TV
DSN=&INDEX..&ROOT.&FILE.TU

.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:
-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

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

.Output report:
-Printing of tables
PAC7EY

.Sort files:
SORTWK01, SORTWK02, SORTWK03.

8.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5
//* - TABLE UPDATE -
//*****
//$RADP.UPTA PROC FILE='$FILE', PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, ROOT OF VA PAC SYSTEM
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', NON-VSAM FILE INDEX
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// CYL=3, SPACE SORTWK
// SPAWK='(TRK,(50,10),RLSE)', SPACE OF WORK FILES
// SPAED='(TRK,(150,30),RLSE)', SPACE OF SPOOL FILES
// SPAMB='(TRK,(5,1),RLSE)', SPACE OF TRANSACTION FILE
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// IN=,OUTL=,OPT=N,DIRCA=000,STIMER=,PARDLI=1,
// CPUTIME=,NBA=,OBA=,IMSID=CGIB,AGN=,
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//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
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA300 EXEC PGM=DFSRR00,REGION=1536K,
// PARM=(BMP,PTA300,PTA300$SUG,&IN,&OUT1,
// &OPT&SPIE&TEST&DIRCA,&PRLD,&STIMER,&CKPTID,
// &PARDLI,&CPUTIME,&NBA,&OBA,&IMSID,&AGN)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,

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```
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7MS   DD DSN=&&UPTAMB,DISP=(OLD,DELETE)
//PAC7DE   DD DSN=&&TABLE,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//          SPACE=&SPAWK
//PAC7MT   DD DSN=&&MVT300,DISP=(NEW,DELETE),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=95,BLKSIZE=6175),
//          SPACE=&SPAWK
//PAC7ET   DD SYSOUT=&OUTL
//*
//PTA350   EXEC PGM=DFSRRRC00,REGION=$REGSIZ,
//          PARM=(DLI,PTA350,PTA350$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS     DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT  DD SYSOUT=&OUT
//SYSOUX  DD SYSOUT=&OUT
//DDSNAP  DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7DE   DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET   DD DSN=&&SPOOL,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
//          SPACE=&SPAED
//PAC7EX   DD SYSOUT=&OUTL
//*
//PTA360   EXEC PGM=DFSRRRC00,REGION=$REGSIZ,
//          PARM=(DLI,PTA360,PTA360$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS     DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT  DD SYSOUT=&OUT
//SYSOUX  DD SYSOUT=&OUT
//DDSNAP  DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
```

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```
//SYSPRINT DD SYSOUT=&OUT  
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)  
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR  
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)  
//PAC7EY DD SYSOUT=&OUTL  
//*
```

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9. TABLE PRINTING

(PRTA)

9.1. INTRODUCTION

PRTA: TABLE PRINTING

INTRODUCTION

This procedure performs a batch printing of tables.

EXECUTION CONDITION

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

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 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 ! | ! DMMCCYY | ! Historical account date or |
| ! ! | ! ! | ! ! | ! date of the reference description |
| ! ! | ! ! | ! ! | ! (if transaction 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 |

9.3. DESCRIPTION OF STEPS

PRTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

EXTRACTION OF TABLES FOR PRINTING: PTA320

.Permanent input files:
-Table-description File
 DSN=&INDEX..&ROOT.&FILE.TD
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU
-User-parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.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:
-Tables descriptions File
 DSN=&INDEX..&ROOT.&FILE.TD
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU

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.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 descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

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

.Output report:
-Printing of tables
PAC7EY

.Sort files:
SORTWK01, SORTWK02, SORTWK03

9.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - PRINTING OF TABLES - *
//*****
//$RADP.PRTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', NON-VSAM FILE INDEX
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', BATCH-PROGRAM LIBRARY
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// CYL=3, SPACE SORTWK
// SPAWK=(TRK,(50,10),RLSE)', SPACE OF WORK FILES
// SPAED=(TRK,(150,30),RLSE)', SPACE OF PRINT FILES
// SPAMB=(TRK,(5,1),RLSE)', SPACE OF TRANSACTION FILES
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//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
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA320 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA320,PTA320$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,, &DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)

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```
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7CA DD DSN=&PRTAMB,DISP=(OLD,DELETE)
//PAC7DE DD DSN=&&TABLE,DISP=(,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
// SPACE=&SPAWK
//PAC7XE DD SYSOUT=&OUTL
//*
//PTA350 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA350,PTA350$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7DE DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET DD DSN=&&SPOOL,DISP=(,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
// SPACE=&SPAED
//PAC7EX DD SYSOUT=&OUTL
//*
//PTA360 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA360,PTA360$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCL DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//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)
//SYSOUT DD SYSOUT=&OUT
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)
```

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```
//PAC7EY DD SYSOUT=&OUTL  
//*
```

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10. TABLE IMPORT

(IMTA)

10.1. 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 entered 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 except for equipment allowing batch/TP concurrency.

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

If the table to be imported is large, it may be necessary to precede the execution of the procedure by a backup and reload in order to increase the size of the TV file or physically reorganize this file so as to make all the initially provided free space available.

RESTRICTION

The procedure allows you to import only one table per execution.

IMPORTANT NOTE:

An alternative version of the update program, PTA312, is shipped with Pactables 2.0 and higher releases.

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

With Release 2.0 and higher, if 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.

10.2. 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) !
+-----+-----+-----+-----+
```

10.3. DESCRIPTION OF STEPS

IMTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE CHECK AND UPDATE: PTA310

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-User-parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.Permanent input-output file:
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU

.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:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU

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

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

.Output report:
-Printing statistics
 PAC7EX

PRINTING: PTA360

TABLE IMPORT
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.Permanent input file:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD

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

.Output report:
-Table printout
 PAC7EY

.Sort files:

 SORTWK01, SORTWK02, SORTWK03.

10.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - TABLE IMPORT - *
//*****
//$RADP.IMTA PROC FILE=$FILE, PHYSICAL DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', NON-VSAM FILE INDEX
// TABF=, DSN OF IMPORT FILE
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// CYL=3, SORTWK SPACE
// SPAWK=(TRK,(50,10),RLSE)', SPACE OF WORK FILES
// SPAED=(TRK,(150,30),RLSE)', SPACE OF PRINT FILES
// SPAMB=(TRK,(5,1))', SPACE OF TRANSACTION FILES
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//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
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA310 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA310,PTA310$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,

```

```
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7MV DD DSN=&&IMTAMB,DISP=(OLD,PASS)
//PAC7NK DD DSN=&TABF,DISP=OLD
//PAC7DE DD DSN=&&TABLE,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//          SPACE=&SPAWK
//PAC7ET DD SYSOUT=&OUTL
//*
//PTA350 EXEC PGM=DFSRRRC00,REGION=$REGSIZ,
//          PARM=(DLI,PTA350,PTA350$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,, &DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7DE DD DSN=&&TABLE,DISP=(OLD,DELETE)
//PAC7ET DD DSN=&&SPOOL,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=160,BLKSIZE=1600),
//          SPACE=&SPAED
//PAC7EX DD SYSOUT=&OUTL
//*
//PTA360 EXEC PGM=DFSRRRC00,REGION=$REGSIZ,
//          PARM=(DLI,PTA360,PTA360$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,, &DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//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)
//SYSOUT DD SYSOUT=&OUT
```

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```
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR  
//PAC7ET DD DSN=&&SPOOL,DISP=(OLD,DELETE)  
//PAC7EY DD SYSOUT=&OUTL  
//*
```

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11. TABLE REORGANIZATION

(RETA)

11.1. INTRODUCTION

RETA: TABLE REORGANIZATION

INTRODUCTION

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

RETA deletes the records that were logically deleted during update by reorganizing the historical accounts of the files according to the user's requests (see the Pactables Reference Manual). The records that were logically deleted can be kept by option.

For user programs written in cobol II, RETA assigns a sign + to numeric data signed positive (not available in previous releases).

EXECUTION CONDITION

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

11.2. USER INPUT

USER INPUT

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

| ! POS.! | ! LEN.! | ! VALUE | ! MEANING |
|---------|---------|------------|--------------------------|
| ! 2 ! | ! 1 ! | ! '*' | ! Line code |
| ! 3 ! | ! 8 ! | ! '*****' | ! Table Manager 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 purge |
| ! ! | ! ! | ! 'G' | ! Historical account to keep |
| ! 2 ! | ! 1 ! | ! 'A' | ! Line code |
| ! 3 ! | ! 6 ! | ! tttttt | ! Table number |
| ! 9 ! | ! 8 ! | ! DDMMCCYY | ! Historical account date |
| ! 19 ! | ! 1 ! | | ! Option |
| ! ! | ! ! | ! ! | ! - when the action code is equal to ! |
| ! ! | ! ! | ! 'G', | ! the historical account whose! |
| ! ! | ! ! | ! date is equal to the date speci- | ! fied is kept. |
| ! ! | ! ! | ! ! | ! If there is no date, all |
| ! ! | ! ! | ! ! | ! historical accounts are kept. |
| ! ! | ! ! | ! ! | ! - When the action code is equal to ! |
| ! ! | ! ! | ! 'S', | ! the historical account whose! |
| ! ! | ! ! | ! date is equal to the date speci- | ! fied is purged. |
| ! ! | ! ! | ! '<' | ! - When the action code is equal to ! |
| ! ! | ! ! | ! 'G', | ! the historical accounts whose! |
| ! ! | ! ! | ! dates are strictly earlier than ! | ! the date specified are kept. |
| ! ! | ! ! | ! ! | ! - When the action code is equal to ! |
| ! ! | ! ! | ! 'S', | ! all historical accounts whose! |
| ! ! | ! ! | ! dates are strictly earlier than ! | ! the date specified are purged. |
| ! ! | ! ! | ! '>' | ! - When the action code is equal to ! |
| ! ! | ! ! | ! 'G', | ! all historical accounts whose! |
| ! ! | ! ! | ! dates are later than or equal to ! | ! the date specified are kept. |
| ! ! | ! ! | ! ! | ! - When the action code is equal to ! |
| ! ! | ! ! | ! 'S', | ! all historical accounts whose! |
| ! ! | ! ! | ! dates are later than or equal to ! | ! the date specified are purged. |

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

For more details, see the Pactables Reference Manual.

11.3. DESCRIPTION OF STEPS

RETA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

REORGANIZATION OF TABLE CONTENTS: PTA400

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU
-User parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.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 complete, 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

.Input transaction file
-Reorganization requests
 PAC7MB : DSN=&&RETAMB

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

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

TABLE REORGANIZATION
DESCRIPTION OF STEPS

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.Sort files:
SORTWK01, SORTWK02, SORTWK03

REORGANIZATION OF TABLE-DESCRIPTIONS: PTA420

.Permanent input file:
-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

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

.Output files:
-Reorganized tables descriptions file
PAC7TS : DSN=&&TSREO
-Tables descriptions print request
PAC7ML : DSN=&&ME

NOTE: This file must be kept and used as input of the LDTA procedure, to produce a printout of the tables 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 fille
PAC7TW : DSN=&&TWREO
-Reorganized descriptions file
PAC7TS : DSN=&&TSREO

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

TG FILE BACKUP: PTASVG

.Permanent input file:
-User-parameter file
DSN=&INDEX..&ROOT.&FILE.TG
.Output file:
-Table backup
DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD

11.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - REORGANIZATION OF TABLES - *
//*****
//$RADP.RETA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
// INDEXQ='$INDEXQ', DATA GROUP FILE INDEX
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// CYL=(3,1), SORTWORK SPACE
// VOLS='SER=$VOLO', BACKUP VOLUME
// SPAWK=(TRK,(50,10),RLSE)', SPACE OF WORK FILES
// SPAMB=(TRK,(5,1),RLSE)', SPACE OF TRANSACTIONS FILE
// SPATC=(TRK,(150,10),RLSE)', SPACE OF BACKUP FILE
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//COPY EXEC PGM=PTU001
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&RETAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA400 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA400,PTA400$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,

```

```
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//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)
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7DR DD DSN=&&RETAMB,DISP=(OLD,PASS)
//PAC7DE DD DSN=&&DEREO,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200),
//          SPACE=&SPAWK
//PAC7TX DD DSN=&&TXREO,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=VB,LRECL=1063,BLKSIZE=10630),
//          SPACE=&SPAWK
//PAC7IR DD SYSOUT=&OUT
//*
//PTA410 EXEC PGM=PTA410
//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//PAC7MB DD DSN=&&RETAMB,DISP=(OLD,PASS)
//PAC7TX DD DSN=&&TXREO,DISP=(OLD,PASS)
//PAC7TW DD DSN=&&TWREO,DISP=(,PASS),UNIT=&UWK,
//          SPACE=&SPAWK,
//          DCB=(RECFM=VB,LRECL=1063,BLKSIZE=10630)
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SYSUDUMP DD SYSOUT=&OUT
//*
//PTA420 EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTA420,PTA420$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPDAT DD DSN=&SYSTCAT,DISP=SHR
//*:          DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TS DD DSN=&&TSREO,DISP=(NEW,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),
//          SPACE=&SPAWK
//PAC7DE DD DSN=&&DEREO,DISP=(OLD,PASS)
//PAC7ML DD DSN=&&ME,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200),
//          SPACE=&SPAWK
//*
//PTA430 EXEC PGM=PTA430,COND=(8,LE,PTA400)
```

```

//*****
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7TS DD DSN=&&TSREO,DISP=(OLD,PASS)
//PAC7TW DD DSN=&&TWREO,DISP=(OLD,PASS)
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),
// UNIT=&UWK,VOL=&VOLS,
// DISP=(NEW,CATLG,DELETE),
// SPACE=&SPATC,
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//SYSOUT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PTASVG EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTASVG,PTASVG$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM),
// COND=(8,LE,PTA400)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),
// UNIT=&UWK,VOL=&VOLS,
// DISP=MOD,
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//*

```

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BACKUP

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21. BACKUP

(SVTA)

12.1. INTRODUCTION

TABLE BACKUP (SVTA): INTRODUCTION

The SVTA procedure performs a backup of the Tables descriptions and contents, and a backup of the user parameters in a single sequential file (TC).

EXECUTION CONDITION

The files must be closed to on-line use.

USER INPUT

None.

12.2. DESCRIPTION OF STEPS

SVTA: DESCRIPTION OF STEPS

TD BACKUP: PTASVD

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
.Output file:
-Table backup
 DSN=&INDEXQ..&ROOT.&FILE.TC(+1)

TV BACKUP: PTASVV

.Permanent input file:
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU
.Output file:
-Table backup
 DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD

TG BACKUP: PTASVG

.Permanent input file:
-User-parameter file
 DSN=&INDEX..&ROOT.&FILE.TG
.Output file:
-Table backup
 DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD

12.3. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - BACKUP OF THE PACTABLES DATABASE (TD, TV, TG) - *
//*****
//$RADP.SVTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON VSAM FILES
// INDEXQ='$INDEXQ', GENERATION FILE INDEX
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
//*: VSAMCAT='$CATU', VSAM USER CATALOG
// SPATC='(TRK,(30,3),RLSE)', BACKUP-FILE SPACE
// VOL$='SER=$VOLO', BACKUP-FILE VOLUME
// UNITS='$UNITO', BACKUP-FILE UNIT
// OUT='$OUT', OUTPUT CLASS
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
//*
//PTASVD EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTASVD,PTASVD$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=(,CATLG,DELETE),
// UNIT=&UNITS,VOL=&VOL$SPACE=&SPATC,
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//*
//PTASVV EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTASVV,PTASVV$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR

```

```
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD,
// UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//*
//PTASVG EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTASVG,PTASVG$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD,
// UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
/*
```

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13. PACTABLES TRANSFER FROM ANOTHER PLATFORM (TCTA)

13.1. 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 user's responsibility. 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).

13.2. DESCRIPTION OF STEPS

TCTA: DESCRIPTION OF STEPS

TC BACKUP SPLIT: PTATC1

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

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

TABLE-DESCRIPTION SORT: PTATCD

.Input work file:
-Tables descriptions sequential image
PAC7SD : DSN=&&PAC7SD

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

TABLE-CONTENTS SORT: PTATCV

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

.Output work file:
-Sorted tables 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:
-Tables descriptions 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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13.3. EXECUTION JCL

```
//*****
//* PACTABLES 2.5
//* ---- TRANSFER OF A PACTABLES DATABASE ----
//*****
//$RADP.TCTA PROC ROOT=$ROOT, PACTABLES SYSTEM ROOT
// FILE=$FILE', PHYSICAL BASE NUMBER
// INDEXQ='$INDEXQ', BACKUP FILES' INDEX
//*: VSAMCAT='$CATU', USER VSAM CATALOG
// STEPLIB='$MODB', LOAD-MODULE LIBRARY
// UWK=$UWK, WORK UNIT
// OUT=$OUT, OUTPUT CLASS
// SPATC='(TRK,(30,3),RLSE)', BACKUP-FILE SPACE
// VOLS='SER=$VOLO', BACKUP-FILE VOLUME
// UNITS='$UNITO', BACKUP-FILE UNIT
// SAVIN='$INDEXQ..$ROOT..$FILE.TC(0)', 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,
```

PACTABLES TRANSFER FROM ANOTHER PLATFORM (TCTA)
EXECUTION JCL

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```
//          DCB=(RECFM=FB,LRECL=89,BLKSIZE=8900)
//SYSOUT   DD SYSOUT=&OUT
//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=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=MOD,
//          UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,
//          DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
```

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RESTORATION

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14. RESTORATION

(RSTA)

14.1. INTRODUCTION

RESTORATION (RSTA): INTRODUCTION

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

EXECUTION CONDITION

Access to on-line use must be closed.

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

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 abend, the procedure can be restarted as it is once the problem has been solved.

USER INPUT

None.

14.2. DESCRIPTION OF STEPS

RSTA: DESCRIPTION OF STEPS

DEFINITION OF FILES: IDCAMS

.Defined files
-Table-description file : PAC7TD
DSN=&INDEX..&ROOT.&FILE.TD
-Table-contents file : PAC7TV-PAC7TU
DSN=&INDEX..&ROOT.&FILE.TV
DSN=&INDEX..&ROOT.&FILE.TU
-User parameter file : PAC7TG
DSN=&INDEX..&ROOT.&FILE.TG

RESTORATION OF TD: PTARSD

.Permanent output file:
-Tables descriptions file
DSN=&INDEX..&ROOT.&FILE.TD

.Permanent input file:
-Table backup
DSN=&INDEXQ..&ROOT.&FILE.TC(0)

RESTORATION OF TV: PTARSV

.Permanent output file:
-Table contents file : PAC7TV-PAC7TU
DSN=&INDEX..&ROOT.&FILE.TV
DSN=&INDEX..&ROOT.&FILE.TU

.Permanent input file:
-Table backup
DSN=&INDEXQ..&ROOT.&FILE.TC(0)

RESTORATION OF TG: PTARSG

.Permanent output file:
-User parameter file
DSN=&INDEX..&ROOT.&FILE.TG

.Permanent input file:
-Table backup
DSN=&INDEXQ..&ROOT.&FILE.TC(0)

14.3. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - RELOADING-RESTORING TABLES (TD-TV-TG) - *
//*****
//$RADP.RSTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
// INDEXQ='$INDEXQ', GENERATION-FILE INDEX
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
//*: VSAMCAT='$CATU', VSAM USER CATALOG
// OUT='$OUT', OUTPUT CLASS
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PROCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//*
//DEFINE EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TV),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.TG),DISP=SHR
//*
//PTARSD EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTARSD,PTARSD$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(0),DISP=SHR
//*
//PTARSV EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTARSV,PTARSV$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,

```

```
//          DCB=(RECFM=VB, BLKSIZE=1920, LRECL=1916, BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,
//          BLKSIZE=605), SPACE=(605, (500, 500), RLSE, , ROUND)
//IMSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,
//          BLKSIZE=605), SPACE=(605, (500, 500), RLSE, , ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8), DISP=SHR
//PAC7TU$SUF DD DSN=&INDEX..&ROOT.&FILE.TU, DISP=SHR
//PAC7TV$SUF DD DSN=&INDEX..&ROOT.&FILE.TV, DISP=SHR
//PAC7TC   DD DSN=&INDEXQ..&ROOT.&FILE.TC(0), DISP=SHR
//*
//PTARSG   EXEC PGM=DFSRRRC00, REGION=$REGSIZ,
//          PARM=(DLI, PTARSG, PTARSG$SUG, &BUF,
//          &SPIE&TEST&EXCPVR&RST, &PRLD,
//          &SRCH, &CKPTID, &MON, &LOGA, &FMTO, , , &DBRC, &IRLM)
//STEPLIB  DD DSN=&RESLIB, DISP=SHR
//          DD DSN=&STEPLIB, DISP=SHR
//DFSRESLB DD DSN=&RESLIB, DISP=SHR
//IMS      DD DSN=&PSBLIB, DISP=SHR
//          DD DSN=&DBDLIB, DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT, DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//DDSNAP   DD SYSOUT=&OUT
//PROCLIB  DD DSN=&PROCLIB, DISP=SHR
//IEFRDER  DD DUMMY,
//          DCB=(RECFM=VB, BLKSIZE=1920, LRECL=1916, BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,
//          BLKSIZE=605), SPACE=(605, (500, 500), RLSE, , ROUND)
//IMSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,
//          BLKSIZE=605), SPACE=(605, (500, 500), RLSE, , ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8), DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG, DISP=SHR
//PAC7TC   DD DSN=&INDEXQ..&ROOT.&FILE.TC(0), DISP=SHR
//*
```

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LIST OF TABLE DESCRIPTIONS

(LDTA)

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15. LIST OF TABLE DESCRIPTIONS

(LDTA)

15.1. INTRODUCTION

LDTA: LIST OF TABLE DESCRIPTIONS

INTRODUCTION

This procedure prints descriptions of tables.

EXECUTION CONDITION

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

15.2. 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 ignored.

15.3. DESCRIPTION OF STEPS

LDTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

PRINTING OF TABLES DESCRIPTIONS: PTA290

.Permanent input file:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD

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

.Output report:
-Tables descriptions printout
 PAC7ID

15.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - TABLE-DESCRIPTION LIST - *
//*****
//$RADP.LDTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// SPAMB='(TRK,(5,1),RLSE)', SPACE OF TRANSACTIONS FILE
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//COPY EXEC PGM=PTU001
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&LDTAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//*
//PTA290 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA290,PTA290$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE DD DSN=&&LDTAMB,DISP=(OLD,PASS)
//PAC7ID DD SYSOUT=&OUTL
//*

```

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PARAMETER UPDATE

(PMTA)

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16. PARAMETER UPDATE

(PMTA)

16.1. INTRODUCTION

PMTA: USER PARAMETER UPDATE

INTRODUCTION

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

When the user input contains a 'TA' line with the Database Administrator user'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 equipment in use allows Batch/TP concurrency.

16.2. 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 ! | !uuuuuuuu! | !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 authorization | ! |
| ! | ! | ! '2' | !Read-write authorization on tables | ! |
| ! | ! | ! '3' | !Read-write authorization on user codes | ! |

'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 ! | !uuuuuuuu! | !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 | ! Sub-schema number | ! |
| ! | ! | ! 1 ! n | ! Sub-system number | ! |
| ! | ! | ! 1 ! x | ! Authorization (0, 1 or 2) | ! |
| ! | ! | ! | ! ('*' for all sub-schemas and | ! |
| ! | ! | ! | ! sub-systems) | ! |

'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 a level 3 access authorization. The deletion of the last Administrator code is not authorized.

16.3. DESCRIPTION OF STEPS

PMTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

PARAMETER UPDATE: PTA100

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE

.Permanent input-output file:
-User parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.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:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-User parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

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

.Output report:
-Printing of user parameters
 PAC7ET

16.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - UPDATE OF USER PARAMETERS - *
//*****
//$RADP.PMTA PROC FILE=$FILE, PHYSICAL DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// SPAMB='(TRK,(5,1),RLSE)', SPACE OF TRANSACTION FILES
// SPANU='(TRK,(5,1),RLSE)', SPACE OF WORK FILES
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//COPY EXEC PGM=PTU001
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//PAC7MB DD DSN=&&PMTAMB,DISP=(,PASS),UNIT=&UWK,
// DCB=BLKSIZE=1600,SPACE=&SPAMB
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//*: DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
//*
//PTA100 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA100,PTA100$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7MV DD DSN=&&PMTAMB,DISP=(OLD,DELETE)
//PAC7NU DD DSN=&&NU,DISP=(,PASS),UNIT=&UWK,

```

```
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//          SPACE=&SPANU
//PAC7ET   DD SYSOUT=&OUTL
//*
//PTA120   EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTA120,PTA120$$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS      DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//DDSNAP   DD SYSOUT=&OUT
//PROCLIB  DD DSN=&PROCLIB,DISP=SHR
//IEFRDER  DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TG$$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7NU    DD DSN=&&NU,DISP=(OLD,DELETE)
//PAC7ET    DD SYSOUT=&OUTL
//*
```

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TABLE EXTRACTION

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17. TABLE EXTRACTION

(EXTA)

17.1. INTRODUCTION

EXTA: TABLE EXTRACTION

INTRODUCTION

The EXTA procedure extracts table data in the form of batch update transactions.

EXECUTION CONDITION

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

17.2. 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 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 | ! '/' by default | ! |

17.3. DESCRIPTION OF STEPS

EXTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

EXTRACTION OF TABLE DATA: PTA150

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Error message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU
-User parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.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:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD

.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

17.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - EXTRACTION OF TABLES - *
//*****
//$RADP.EXTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
//*: VSAMCAT='$CATU', VSAM USER CATALOG
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
// STEPLIB='$MODB', LIBRARY OF BATCH PROGRAMS
// SORTLIB='$BIBT', SORT LIBRARY
// OUT='$OUT', OUTPUT CLASS
// OUTL=$OUT, OUTPUT CLASS
// UWK=$UWK, WORK UNIT
// CYL='(3,1)', SORTWORK SPACE
// SPAMB='(TRK,(5,1),RLSE)', SPACE OF TRANSACTION FILES
// SPAEX='(TRK,(10,10),RLSE)', SPACE OF EXTRACTED TRANSACT.
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PROCLIB', IMS PROCLIB
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//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
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTU),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTA150 EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTA150,PTA150$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDR DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY

```



```
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7TE$$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//PAC7TV$$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//PAC7MV DD DSN=&&EXTAMB,DISP=(OLD,PASS)
//PAC7EX DD DSN=&&EX,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=120,BLKSIZE=2400),
//          SPACE=&SPAEX
//PAC7ET DD SYSOUT=&OUTL
//*
//PTA160 EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTA160,PTA160$$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,, &DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//*:          DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//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)
//PAC7TD$$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7EX DD DSN=&&EX,DISP=(OLD,DELETE)
//PAC7NU DD DSN=&&MBTAB,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
//          SPACE=&SPAEX
//PAC7ET DD SYSOUT=&OUTL
//*
```

| | | |
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18. DIRECT CONSULTATION OF TABLES (TUTA)

18.1. INTRODUCTION

TUTA: DIRECT CONSULTATION OF TABLES

INTRODUCTION

The TUTA procedure extracts tables in the form of tables without historical accounts and which are 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.

18.2. USER INPUT

USER INPUT

.One '*'-type line :

```
+-----+-----+-----+-----+
!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 !
! 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.

18.3. DESCRIPTION OF STEPS

TUTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

DIRECT CONSULTATION OF TABLES: PTAU80

.Permanent input files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.TD
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-Table-contents file : PAC7TV-PAC7TU
 DSN=&INDEX..&ROOT.&FILE.TV
 DSN=&INDEX..&ROOT.&FILE.TU
-User-parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

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

.Permanent output files:
-Tables descriptions file
 DSN=&INDEX..&ROOT.&FILE.AD
-Tables contents file
 DSN=&INDEX..&ROOT.&FILE.AV

.Output report:
-Transaction report
 PAC7ET

.Sort files:
 SORTWK01, SORTWK02, SORTWK03.

18.4. EXECUTION JCL

```

//*****
//* PACTABLES 2.5 *
//* - DIRECT READING OF TABLES - *
//*****
//$RADP.TUTA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEX='$INDEX', VSAM-FILE INDEX
// INDEXP='$INDEXP', INDEX OF NON-VSAM FILES
//*: SYSTCAT='$CATV', VSAM SYSTEM CATALOG
//*: VSAMCAT='$CATU', VSAM USER CATALOG
// OUT='$OUT', OUTPUT CLASS
// STEPLIB='$MODB', LIBRARY OF BATCH LOAD-MODULES
// SORTLIB='$BIBT', SORT LIBRARY
// PSBLIB='$PSBLIB', LIBRARY OF PSB'S
// DBDLIB='$DBDLIB', LIBRARY OF DBD'S
// RESLIB='$RESLIB', IMS RESLIB
// PROCLIB='$PRCLIB', IMS PROCLIB
// UWK=$UWK, WORK UNIT
// BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
// CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*-----*
//INPUT EXEC PGM=PTU001
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB DD DSN=&&TUTAMB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//*
//DEFINE EXEC PGM=IDCAMS
//*:STEPCHAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.AD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(DF&ROOT.&FILE.AV),DISP=SHR
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//DDTE DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//DDTG DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//DDTU DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR
//DDTV DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTE),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTG),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
// DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTV),DISP=SHR
//*
//PTAU80 EXEC PGM=DFSRRC00,REGION=$REGSIZ,
// PARM=(DLI,PTAU80,PTAU80$$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEPCHAT DD DSN=&SYSTCAT,DISP=SHR
//*: DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)

```

```
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,  
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)  
//IMSMON   DD DUMMY  
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR  
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR  
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)  
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)  
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)  
//PAC7TD$$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR  
//PAC7TE$$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR  
//PAC7TG$$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR  
//PAC7TU$$SUF DD DSN=&INDEX..&ROOT.&FILE.TU,DISP=SHR  
//PAC7TV$$SUF DD DSN=&INDEX..&ROOT.&FILE.TV,DISP=SHR  
//PAC7AD    DD DSN=&INDEX..&ROOT.&FILE.AD,DISP=SHR  
//PAC7AV    DD DSN=&INDEX..&ROOT.&FILE.AV,DISP=SHR  
//PAC7MX    DD DSN=&&TUTAMB,DISP=(OLD,DELETE)  
//PAC7ET    DD SYSOUT=&OUT  
//*
```

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19. DISPATCHED TABLE MANAGEMENT (DTM OPTION)

19.1. 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 to update the 'outdated' description file, called 'slave' file, (CDT2 procedure).

EXECUTION CONDITION

The CDT1 procedure reads the Pactables 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 ('slave' files). These files must therefore remain closed to on-line use.

NOTE:

The slave file (PAC7TS) used as input to the PTAD10 program is a VSAM file. You can use the BVTA procedure which converts the TD and TV files of the database into VSAM files.

The CDT2 procedure, on the contrary, directly updates the file from the 'slave' database.

19.2. 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 tables descriptions are compared.

19.3. DESCRIPTION OF STEPS

(CDT1)

CDT1: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

CHECK OF TRANSACTIONS: PTAD05

.Permanent input files:
-Table description 'Master' file
 PAC7TD : DSN=&TDMAST
-Error-message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-User-parameter file
 DSN=&INDEX..&ROOT.&FILE.TG

.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:
-Table description 'Master' file
 PAC7TD : DSN=&TDMAST
-Error message file
 DSN=&INDEX..&ROOT.&ROOT.TE
-Table description 'Slave' file
 VSAM 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

19.4. EXECUTION JCL

(CDT1)

```
//*****  
// * PACTABLES 2.5 *  
// * - TABLE-DESCRIPTION COMPARISON - *  
//*****  
// $RADP.CDT1 PROC FILE=' $FILE' , PHYSICAL-DATABASE NUMBER  
// ROOT=' $ROOT' , VA PAC SYSTEM ROOT  
// INDEX=' $INDEX' , VSAM-FILE INDEX  
// INDEXP=' $INDEXP' , NON-VSAM FILE INDEX  
// * : VSAMCAT=' $CATV' , VSAM USER CATALOG  
// * : SYSTCAT=' $CATV' , VSAM SYSTEM CATALOG  
// STEPLIB=' $MODB' , LIBRARY OF BATCH PROGRAMS  
// SORTLIB=' $BIBT' , SORT LIBRARY  
// TDMAST= , MASTER DESCRIPTION  
// TDSLAV= , SLAVE DESCRIPTION  
// XD=' &&TX' , DSN OF EXTRACTED DESCRIPTION  
// SPAXD=' (TRK, (30,10),RLSE)' , SPACE OF EXTRACTED DESCRIPTION  
// SPAMB=' (TRK, (5,1),RLSE)' , SPACE OF TRANSACTIONS FILES  
// CYL=3, SORTWORK SPACE  
// UWK=$UWK, WORK UNIT  
// OUT=' $OUT' , OUTPUT CLASS  
// OUTL=' $OUT' , OUTPUT CLASS  
// PSBLIB=' $PSBLIB' , LIBRARY OF PSB'S  
// DBDLIB=' $DBDLIB' , LIBRARY OF DBD'S  
// RESLIB=' $RESLIB' , IMS RESLIB  
// PROCLIB=' $PRCLIB' , IMS PROCLIB  
// BUF=40, SPIE=0, TEST=0, EXCPVR=0, RST=0, PRLD= , SRCH=0,  
// CKPTID= , MON=N, LOGA=0, FMTO=T, DBRC=$DBRC, IRLM=$IRLM  
// *-----*  
// INPUT EXEC PGM=PTU001  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// CARTE DD DDNAME=SYSIN, DCB=BLKSIZE=80  
// PAC7MB DD DSN=&&CDT1MB, DISP=( , PASS) ,  
// UNIT=&UWK, SPACE=&SPAMB,  
// DCB=(RECFM=FB, LRECL=80, BLKSIZE=800)  
// *  
// VERIFY EXEC PGM=IDCAMS  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSPRINT DD SYSOUT=&OUT  
// DDTD DD DSN=&TDMAST, DISP=SHR  
// DDTE DD DSN=&INDEX. .&ROOT.&ROOT.TE, DISP=SHR  
// DDTG DD DSN=&INDEX. .&ROOT.&FILE.TG, DISP=SHR  
// DDTS DD DSN=&TDSLAV, DISP=SHR  
// SYSIN DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTD) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTE) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTG) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTS) , DISP=SHR  
// *  
// PTAD05 EXEC PGM=DFSRR00, REGION=$REGSIZ,  
// PARM=(DLI, PTAD05, PTAD05$SUG, &BUF,  
// &SPIE&TEST&EXCPVR&RST, &PRLD,  
// &SRCH, &CKPTID, &MON, &LOGA, &FMTO, , , &DBRC, &IRLM)  
// STEPLIB DD DSN=&RESLIB, DISP=SHR  
// DD DSN=&STEPLIB, DISP=SHR  
// DFSRESLB DD DSN=&RESLIB, DISP=SHR  
// IMS DD DSN=&PSBLIB, DISP=SHR  
// DD DSN=&DBDLIB, DISP=SHR  
// * : STEPCAT DD DSN=&SYSTCAT, DISP=SHR  
// SYSOUT DD SYSOUT=&OUT  
// SYSOUX DD SYSOUT=&OUT  
// DDSNAP DD SYSOUT=&OUT  
// PROCLIB DD DSN=&PROCLIB, DISP=SHR  
// IEFORDER DD DUMMY,  
// DCB=(RECFM=VB, BLKSIZE=1920, LRECL=1916, BUFNO=2)  
// SYSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,  
// BLKSIZE=605), SPACE=(605, (500,500), RLSE, , ROUND)  
// IMSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,  
// BLKSIZE=605), SPACE=(605, (500,500), RLSE, , ROUND)
```

```
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//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)
//PAC7TD$SUF DD DSN=&TDMAST,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7MV DD DSN=&&CDT1MB,DISP=(OLD,PASS)
//PAC7MX DD DSN=&&MX,DISP=(,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600),
// SPACE=&SPAXD
//PAC7ET DD SYSOUT=&OUTL
//*
//PTAD10 EXEC PGM=DFSRRRC00,REGION=$REGSIZ,
// PARM=(DLI,PTAD10,PTAD10$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEP CAT DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&TDMAST,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TS DD DSN=&TDSLAV,DISP=SHR
//PAC7MX DD DSN=&&MX,DISP=(OLD,PASS)
//PAC7TX DD DSN=&XD,DISP=(,PASS),UNIT=&UWK,
// DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),
// SPACE=&SPAXD
//PAC7ET DD SYSOUT=&OUTL
//*
```

19.5. DESCRIPTION OF STEPS

(CDT2)

CDT2: DESCRIPTION OF STEPS

VERIFICATION OF VSAM FILES: IDCAMS

UPDATE OF 'SLAVE' FILES,
RECOGNITION OF THE FILE EXTRACTED BY CDT1: PTAD20

.Input files:

-Tables descriptions 'Slave' file
PAC7TD : DSN=&TDSLAV
-Error-message file
DSN=&INDEX..&ROOT.&ROOT.TE

.Output file:

-File of table contents associated to the
'slave' table-description file : PAC7TV-PAC7TU
PAC7TV : DSN=&TVSLAV

.Input transaction file:

-Result extracted from comparison in the
CDT1 procedure
PAC7TX : DSN=&XD

.Output report:

-Update report
PAC7ET

.Sort files:

SORTWK01, SORTWK02, SORTWK03.

19.6. EXECUTION JCL

(CDT2)

```
//*****  
//* PACTABLES 2.5 *  
//* - TABLE-DESCRIPTION UPDATE - *  
//*****  
//$RADP.CDT2 PROC ROOT=' $ROOT' , SYSTEM ROOT  
// INDEX=' $INDEX' , VSAM-FILE INDEX  
// INDEXP=' $INDEXP' , NON-VSAM FILE INDEX  
//*: VSAMCAT=' $CATV' , VSAM USER CATALOG  
//*: SYSTCAT=' $CATV' , VSAM SYSTEM CATALOG  
// STEPLIB=' $MODB' , LIBRARY OF BATCH PROGRAMS  
// SORTLIB=' $BIBT' , SORT LIBRARY  
// TDSLAV= , SLAVE DESCRIPTION  
// TUSLAV= , PRIMARY INDEX 'TU' OF SLAVE DESCR.  
// TVSLAV= , TABLES ASSOCIATED TO SLAVE DESCRIPT.  
// XD=' &&TX' , DSN OF DESCR. EXTRACTED FROM 'CDT1'  
// CYL=3 , SORTWORK SPACE  
// UWK=$UWK , WORK UNIT  
// OUT=' $OUT' , OUTPUT CLASS  
// OUTL=' $OUT' , OUTPUT CLASS  
// PSBLIB=' $PSBLIB' , LIBRARY OF PSB'S  
// DBDLIB=' $DBDLIB' , LIBRARY OF DBD'S  
// RESLIB=' $RESLIB' , IMS RESLIB  
// PROCLIB=' $PRCLIB' , IMS PROCLIB  
// BUF=40 , SPIE=0 , TEST=0 , EXCPVR=0 , RST=0 , PRLD= , SRCH=0 ,  
// CKPTID= , MON=N , LOGA=0 , FMTO=T , DBRC=$DBRC , IRLM=$IRLM  
// *-----*  
//VERIFY EXEC PGM=IDCAMS  
//*:STEPCAT DD DSN=&VSAMCAT , DISP=SHR  
//*: DD DSN=&SYSTCAT , DISP=SHR  
//SYSPRINT DD SYSOUT=&OUT  
//DDTD DD DSN=&TDSLAV , DISP=SHR  
//DDTE DD DSN=&INDEX . .&ROOT .&ROOT .TE , DISP=SHR  
//DDTU DD DSN=&TUSLAV , DISP=SHR  
//DDTV DD DSN=&TVSLAV , DISP=SHR  
//SYSIN DD DSN=&INDEXP . .&ROOT .&ROOT .SY (VERIFTD) , DISP=SHR  
// DD DSN=&INDEXP . .&ROOT .&ROOT .SY (VERIFTE) , DISP=SHR  
// DD DSN=&INDEXP . .&ROOT .&ROOT .SY (VERIFTU) , DISP=SHR  
// DD DSN=&INDEXP . .&ROOT .&ROOT .SY (VERIFTV) , DISP=SHR  
//*  
//PTAD20 EXEC PGM=DFSRR00 , REGION=$REGSIZ ,  
// PARM= (DLI , PTAD20 , PTAD20$SUG , &BUF ,  
// &SPIE&TEST&EXCPVR&RST , &PRLD ,  
// &SRCH , &CKPTID , &MON , &LOGA , &FMTO , , , &DBRC , &IRLM)  
//STEPLIB DD DSN=&RESLIB , DISP=SHR  
// DD DSN=&STEPLIB , DISP=SHR  
//DFSRESLB DD DSN=&RESLIB , DISP=SHR  
//IMS DD DSN=&PSBLIB , DISP=SHR  
// DD DSN=&DBDLIB , DISP=SHR  
//*:STEPCAT DD DSN=&SYSTCAT , DISP=SHR  
//SYSOUT DD SYSOUT=&OUT  
//SYSOUX DD SYSOUT=&OUT  
//DDSNAP DD SYSOUT=&OUT  
//PROCLIB DD DSN=&PROCLIB , DISP=SHR  
//IEFRDER DD DUMMY ,  
// DCB= (RECFM=VB , BLKSIZE=1920 , LRECL=1916 , BUFNO=2)  
//SYSUDUMP DD SYSOUT=&OUT , DCB= (RECFM=FBA , LRECL=121 ,  
// BLKSIZE=605) , SPACE= (605 , (500 , 500) , RLSE , , ROUND)  
//IMSUDUMP DD SYSOUT=&OUT , DCB= (RECFM=FBA , LRECL=121 ,  
// BLKSIZE=605) , SPACE= (605 , (500 , 500) , RLSE , , ROUND)  
//IMSMON DD DUMMY  
//DFSVSAMP DD DSN=&INDEXP . .&ROOT .&ROOT .SY (DFSVSAM8) , DISP=SHR  
//SORTLIB DD DSN=&SORTLIB , DISP=SHR  
//SORTWK01 DD UNIT=&UWK , SPACE= (CYL , &CYL , , CONTIG)  
//SORTWK02 DD UNIT=&UWK , SPACE= (CYL , &CYL , , CONTIG)  
//SORTWK03 DD UNIT=&UWK , SPACE= (CYL , &CYL , , CONTIG)  
//PAC7TD$SUF DD DSN=&TDSLAV , DISP=SHR  
//PAC7TE$SUF DD DSN=&INDEX . .&ROOT .&ROOT .TE , DISP=SHR  
//PAC7TU$SUF DD DSN=&TUSLAV , DISP=SHR
```

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EXECUTION JCL

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(CDT2)

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```
//PAC7TV$SUF DD DSN=&TVSLAV,DISP=SHR  
//PAC7TX DD DSN=&XD,DISP=SHR  
//PAC7ET DD SYSOUT=&OUTL  
//*
```


19.7. TABLE CONTENTS UPDATE (CVTA)

CVTA: COMPARISON AND UPDATING OF TABLES CONTENTS

INTRODUCTION

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

EXECUTION CONDITION

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

19.8. USER INPUT

(CVTA)

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 | ! |
|--------|--------|------------|-------------------------|---|
| ! 1 ! | ! 1 ! | ! 'S' | !Transaction code | ! |
| ! 2 ! | ! 1 ! | ! 'A' | !Line code | ! |
| ! 3 ! | ! 6 ! | ! tttttt | !Table number | ! |
| ! 9 ! | ! 8 ! | !DDMMCCYY! | !Update date: beginning | ! |
| ! 17 ! | ! 2 ! | ! | !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 the items of tables accessible by the user ('*-line) can be extracted.

19.9. DESCRIPTION OF STEPS

(CVTA)

CVTA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

VERIFICATION OF VSAM FILES: IDCAMS

TABLE-CONTENTS COMPARISON: PTAV10

.Permanent input files:
-Tables descriptions file
PAC7TD : DSN=&TD
-Error-message file
DSN=&INDEX..&ROOT.&ROOT.TE
-Table-contents file : PAC7TV-PAC7TU
PAC7TV : DSN=&TV
-User-parameter file
DSN=&INDEX..&ROOT.&FILE.TG

.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:
-Tables Descriptions 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.

19.10. EXECUTION JCL

(CVTA)

```
//*****  
// * PACTABLES 2.5 *  
// * - EXTRACTION OF MODIFIED TABLE DATA - *  
//*****  
// $RADP.CVTA PROC FILE=' $FILE' , PHYSICAL-DATABASE NUMBER  
// ROOT=' $ROOT' , SYSTEM ROOT  
// INDEX=' $INDEX' , VSAM-FILE INDEX  
// INDEXP=' $INDEXP' , NON-VSAM FILE INDEX  
// * : VSAMCAT=' $CATV' , VSAM USER CATALOG  
// * : SYSTCAT=' $CATV' , VSAM SYSTEM CATALOG  
// STEPLIB=' $MODB' , LIBRARY OF BATCH PROGRAMS  
// SORTLIB=' $BIBT' , SORT LIBRARY  
// TD= , SLAVE DESCRIPTION  
// TU= , 'TU' PRIMARY INDEX OF SLAVE DESCRIPT  
// TV= , TABLES ASSOCIATED TO SLAVE DESCRIPT.  
// SPAEX=' (TRK, (30,3),RLSE)' , SPACE OF EXTRACTED TRANSACTIONS  
// SPAMB=' (TRK, (5,1),RLSE)' , SPACE OF TRANSACTION FILE  
// CYL=3, SORTWORK SPACE  
// UWK=$UWK, WORK UNIT  
// OUT=' $OUT' , OUTPUT CLASS  
// OUTL=' $OUT' , OUTPUT CLASS  
// PSBLIB=' $PSBLIB' , LIBRARY OF PSB'S  
// DBDLIB=' $DBDLIB' , LIBRARY OF DBD'S  
// RESLIB=' $RESLIB' , IMS RESLIB  
// PROCLIB=' $PROCLIB' , IMS PROCLIB  
// BUF=40, SPIE=0, EXCPVR=0, RST=0, PRLD= , SRCH=0,  
// CKPTID= , MON=N, LOGA=0, FMTO=T, DBRC=$DBRC, IRLM=$IRLM  
// *-----*  
// INPUT EXEC PGM=PTU001  
// STEPLIB DD DSN=&STEPLIB, DISP=SHR  
// CARTE DD DDNAME=SYSIN, DCB=BLKSIZE=80  
// PAC7MB DD DSN=&&CVTAMB, DISP=( , PASS) ,  
// UNIT=&UWK, SPACE=&SPAMB,  
// DCB=(RECFM=FB, LRECL=80, BLKSIZE=800)  
// *  
// VERIFY EXEC PGM=IDCAMS  
// * : STEPCAT DD DSN=&VSAMCAT, DISP=SHR  
// * : DD DSN=&SYSTCAT, DISP=SHR  
// SYSPRINT DD SYSOUT=&OUT  
// DDTD DD DSN=&TD, DISP=SHR  
// DDTE DD DSN=&INDEX. .&ROOT.&ROOT.TE, DISP=SHR  
// DDTG DD DSN=&INDEX. .&ROOT.&FILE.TG, DISP=SHR  
// DDTU DD DSN=&TU, DISP=SHR  
// DDTV DD DSN=&TV, DISP=SHR  
// SYSIN DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTD) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTE) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTG) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTU) , DISP=SHR  
// DD DSN=&INDEXP. .&ROOT.&ROOT.SY(VERIFTV) , DISP=SHR  
// *  
// PTAV10 EXEC PGM=DFSRR00, REGION=$REGSIZ,  
// PARM=(DLI, PTAV10, PTAV10$SUG, &BUF,  
// &SPIE&TEST&EXCPVR&RST, &PRLD,  
// &SRCH, &CKPTID, &MON, &LOGA, &FMTO, , , &DBRC, &IRLM)  
// STEPLIB DD DSN=&RESLIB, DISP=SHR  
// DD DSN=&STEPLIB, DISP=SHR  
// DFSRESLB DD DSN=&RESLIB, DISP=SHR  
// IMS DD DSN=&PSBLIB, DISP=SHR  
// DD DSN=&DBDLIB, DISP=SHR  
// * : STEPCAT DD DSN=&SYSTCAT, DISP=SHR  
// SYSOUT DD SYSOUT=&OUT  
// SYSOUX DD SYSOUT=&OUT  
// DDSNAP DD SYSOUT=&OUT  
// PROCLIB DD DSN=&PROCLIB, DISP=SHR  
// IEFRDER DD DUMMY,  
// DCB=(RECFM=VB, BLKSIZE=1920, LRECL=1916, BUFNO=2)  
// SYSUDUMP DD SYSOUT=&OUT, DCB=(RECFM=FBA, LRECL=121,  
// BLKSIZE=605), SPACE=(605, (500,500), RLSE, , ROUND)
```

```
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&TD,DISP=SHR
//PAC7TE$SUF DD DSN=&INDEX..&ROOT.&ROOT.TE,DISP=SHR
//PAC7TG$SUF DD DSN=&INDEX..&ROOT.&FILE.TG,DISP=SHR
//PAC7TU$SUF DD DSN=&TU,DISP=SHR
//PAC7TV$SUF DD DSN=&TV,DISP=SHR
//PAC7MV DD DSN=&&CVTAMB,DISP=(OLD,PASS)
//PAC7EX DD DSN=&&EX,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=120,BLKSIZE=2400),
//          SPACE=&SPAEX
//PAC7ET DD SYSOUT=&OUTL
//*
//PTAV20 EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTAV20,PTAV20$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCLIB DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//SORTLIB DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7TD$SUF DD DSN=&TD,DISP=SHR
//PAC7EX DD DSN=&&EX,DISP=(OLD,PASS)
//PAC7NU DD DSN=&&NU,DISP=(,PASS),UNIT=&UWK,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600),
//          SPACE=&SPAEX
//PAC7ET DD SYSOUT=&OUTL
//*
```

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TABLE RETRIEVAL FROM RELEASES 7.x

(RxTA)

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

| | | | |
|---|--------|------|-----|
| TABLE RETRIEVAL FROM RELEASES 7.x | (R3TA) | PAGE | 135 |
| RETRIEVAL FROM RELEASE 7.3, 8.xx or 1.2 | (R3TA) | | 20 |
| | | | 1 |

20.1. RETRIEVAL FROM RELEASE 7.3, 8.xx or 1.2 (R3TA)

RETRIEVAL FROM RELEASE 7.3, 8.xx or 1.2 (R3TA)

The retrieval of existing tables and files, which allows Tables of the 7.3 release to be used in 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 --> 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 of the Administrator access authorization level to the Database Manager '*****' (PMTA).
- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the sign + to data signed positive (sign missing from release 7.3), 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. DESCRIPTION OF STEPS

(R3TA)

R3TA: DESCRIPTION OF STEPS

INPUT 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:
-7.3 Backup 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-PAC7TU
PAC7TV : DSN=parameter &OLDTV of the procedure

.Output file:
-7.3 backup 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

.Output file:
-7.3 backup 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 2.5 backup
DSN=&INDEXQ.&ROOT.&FILE.TC(+1)

.Output report:
-Retrieval report
PAC7ET

20.3. EXECUTION JCL

(R3TA)

```

//*****
//* PACTABLES 2.5 *
//* - RETRIEVAL OF PACTABLES FILES (REL. 7.3) - *
//*****
//$RADP.R3TA PROC FILE=$FILE, PHYSICAL-DATABASE NUMBER
// ROOT=$ROOT, VA PAC SYSTEM ROOT
// INDEXP=' $INDEXP', INDEX OF NON-VSAM FILES
// INDEXQ=' $INDEXQ', GENERATION-FILE INDEX
// STEPLIB=' $MODB', LIBRARY OF BATCH PROGRAMS
//*: VSAMCAT=' $CATU', VSAM USER CATALOG
// SPATC=' (TRK, (30,3),RLSE)', BACKUP-FILE SPACE
// OLDTD=, 7.3 TD FILE
// OLDTG=, 7.3 TG FILE
// OLDTV=, 7.3 TV FILE
// VOLS='SER=$VOLO', BACKUP-FILE VOLUME
// UNITS=' $UNITO', BACKUP UNIT
// UWK=' $UWK', WORK UNIT
// OUT=' $OUT', OUTPUT CLASS
// OUTL=' $OUT', OUTPUT CLASS
// RESLIB=' $RESLIB', IMS RESLIB
// PROCLIB=' $PRCLIB', IMS PROCLIB
// DBDLIB=' $DBDLIB', LIBRARY OF DBD'S
// PSBLIB=' $PSBLIB', LIBRARY OF PSB'S
// BUF=40, SPIE=0, TEST=0, EXCPVR=0, RST=0, PRLD=, SRCH=0,
// CKPTID=, MON=N, LOGA=0, FMTO=T, DBRC=$DBRC, IRLM=$IRLM
//*-----*
//*
//INPUT EXEC PGM=PTU001
//STEPLIB DD DSN=&STEPLIB,DISP=SHR
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB DD DSN=&&R3TAMB,DISP=(,PASS),
// UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)
//*
//PTAXVD EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTAXVD,PTAXVD$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
// DD DSN=&DBDLIB,DISP=SHR
//*:STEP CAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
// DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
// BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUFR DD DSN=&OLDTD,DISP=SHR
//PAC7TC DD DSN=&&R3TATC01,DISP=(,PASS),
// UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,
// DCB=(RECFM=VB,LRECL=1061,BLKSIZE=10614)
//*
//PTAXVV EXEC PGM=DFSRR00,REGION=$REGSIZ,
// PARM=(DLI,PTAXVV,PTAXVV$SUG,&BUF,
// &SPIE&TEST&EXCPVR&RST,&PRLD,
// &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
// DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR

```

```
//IMS      DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//DDSNAP   DD SYSOUT=&OUT
//PROCLIB  DD DSN=&PROCLIB,DISP=SHR
//IEFRDER  DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TV$SUFRR DD DSN=&OLDTV,DISP=SHR
//PAC7TC   DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
//*
//PTAXVG   EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTAXVG,PTAXVG$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,&DBRC,&IRLM)
//STEPLIB  DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&STEPLIB,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS      DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//DDSNAP   DD SYSOUT=&OUT
//PROCLIB  DD DSN=&PROCLIB,DISP=SHR
//IEFRDER  DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON   DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TG$SUFRR DD DSN=&OLDTG,DISP=SHR
//PAC7TC   DD DSN=*.PTAXVD.PAC7TC,DISP=(MOD,PASS)
//*
//PTAR20   EXEC PGM=PTAR20
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7MB   DD DSN=&&R3TAMB,DISP=SHR
//PAC7TC   DD DSN=*.PTAXVD.PAC7TC,DISP=SHR
//PAC7TR   DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=(,CATLG,DELETE),
//          UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,
//          DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC
//PAC7ET   DD SYSOUT=&OUTL
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

20.4. RETRIEVAL FROM RELEASE 7.2

(R2TA)

RETRIEVAL FROM RELEASE 7.2 (R2TA)

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 --> 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 of the Administrator access authorization level to the Database Manager '*****' (PMTA).
- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the sign + to data signed positive (sign missing from release 7.2), 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.

20.5. DESCRIPTION OF STEPS

(R2TA)

R2TA: DESCRIPTION OF STEPS

INPUT RECOGNITION: PTU001

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
DSN=&INDEX..&ROOT.&FILE.TG
-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:

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

.Output file:

-7.3 backup file
PAC7TC : DSN=&&R2TATC01

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
DSN=&INDEX..ROOT.&FILE.TG

.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 generation +1 of the 2.5 backup
if no error has been detected during the preceding steps.

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

.Output file:
-Cataloged 2.5 backup
DSN=&INDEXQ..&ROOT.&FILE.TC(+1)

TABLE RETRIEVAL FROM RELEASES 7.x
EXECUTION JCL

(R2TA)
(R2TA)

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20.6. EXECUTION JCL

(R2TA)

```
//*****  
//* PACTABLES 2.5 *  
//*-----  
//* R2TA : NOT AVAILABLE ON IMS PLATFORM  
//*-----
```

| | | |
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21. TABLE RETRIEVAL FROM RELEASES 8.xx OR 1.2

21.1. INTRODUCTION

RETRIEVAL OF PACTABLES 8.xx OR 1.2 (RTTA)

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 DDMMCCYY format, or from the YYMMDD format into the CCYYMMDD format, so as to integrate the century mark.

Depending on the years present in the dates of 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;
- . Restoration in the 2.5 format (RSTA procedure) of the database, from the backup produced by the preceding step;
- . Assignment of the Administrator access level to the Database Manager '*****' (PMTA).

- . Execution of the 2.5 reorganization procedure (RETA), using the restored Database, in order to purge it, and to assign the sign + to data signed positive (sign missing from release 7.3), 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.

21.2. RTTA : USER INPUT

USER INPUT

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

```
+-----+-----+-----+-----+
!Pos.! Len.! Value  ! Meaning
+-----+-----+-----+-----+
!  1 !   2 ! Numeric ! Pivot year
!   !   ! other  !
!   !   ! than '00'!
```

21.3. RTTA : DESCRIPTION OF STEPS

RTTA: DESCRIPTION OF STEPS

BACKUP RETRIEVAL: PTAR20

.Permanent input file:
-1.2 backup file
DSN=INDEXQ..&ROOT.&FILE.TC(0)

.Permanent output file:
-Temporary 2.5 backup
PAC7TR : DSN=&&RTTATC

.Input file:
-user parameter line
PAC7MB

.Output report:
-Retrieval report
PAC7ET

21.4. RTTA : EXECUTION JCL

```
//*****  
//* PACTABLES 2.5 *  
//* - RETRIEVAL OF PACTABLES 8.02 OR 1.2 - *  
//*****  
//$RADP.RTTA PROC FILE='$FILE', PHYSICAL-DATABASE NUMBER  
// ROOT='$ROOT', SYSTEM ROOT  
// INDEXQ='$INDEXQ', GENERATION-FILE INDEX  
// STEPLIB='$MOQB', BATCH-PROGRAM LIBRARY  
// SPATC='(TRK,(30,3),RLSE)', BACKUP-FILE SPACE  
// VOLS='SER=$VOLO', BACKUP-FILE VOLUME  
// UNITS='$UNITO', BACKUP-FILE UNIT  
// OUT='$OUT', OUTPUT CLASS  
// OUTL='$OUT' OUTPUT CLASS  
//*-----*  
//*  
//PTAR20 EXEC PGM=PTAR20  
//STEPLIB DD DSN=&STEPLIB,DISP=SHR  
//PAC7MB DD DUMMY  
//PAC7TC DD DSN=&INDEXQ..&ROOT.&FILE.TC(0),DISP=SHR  
//PAC7TR DD DSN=&INDEXQ..&ROOT.&FILE.TC(+1),DISP=(,CATLG,DELETE),  
// UNIT=&UNITS,VOL=&VOLS,SPACE=&SPATC,  
// DCB=&INDEXQ..DSCB.&ROOT.&FILE.TC  
//PAC7ET DD SYSOUT=&OUTL  
//SYSOUT DD SYSOUT=&OUT  
//SYSUDUMP DD SYSOUT=&OUT  
//*
```

| | | |
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22. COMPATIBILITY BETWEEN PACTABLES 2.5 AND VA PAC 1.6

COMPATIBILITY PACTABLES 2.5 WITH VISUALAGE PACBASE 1.6

If you use Pactables 2.5 and generate table descriptions of VisualAge Pacbase from version 1.6 and higher versions (or from a former version), you need to use the GETA, GETD, and GETI procedures that are supplied with the Pactables 2.5 installation tape, instead of the GETA, GETD, AND GETI procedures supplied with VisualAge Pacbase as they are not compatible with Pactables 2.5. Copy PBGET* procedures into the VA Pac environment and execute PBZZEXEC upon them.

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23. INSTALLATION

23.1. INTRODUCTION

INTRODUCTION

The installation procedure includes three phases:

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

It uses an installation tape including the release.
The whole installation process is described in this chapter.

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

You can then start the installation.

PREPARATION

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

- . Backup of installation tape,
- . Copy of the 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.

23.2. INSTALLATION TAPE

INSTALLATION TAPE

The installation tape (6250 BPI, Standard labels) is the standard Pactables installation tape, containing the following files:

| !Rank | ! Label | ! Lrecl | ! Block | ! Contents |
|-------|---------------|------------------|----------|---|
| ! 01 | ! INST.JCL | ! 80 | ! 3,440 | ! Initial prep. JCL |
| ! 02 | ! INST.MOD | ! 6,144 | ! 6,144 | ! MMLJCL Load-module ! (utility of ! preparation JCL) |
| ! 03 | ! PACT.JCL | ! 80 | ! 3,440 | ! Pactables installation ! and operations JCL |
| ! 04 | ! PACT.MBR8 | ! 6,144 | ! 6,144 | ! Batch load-modules |
| ! 05 | ! PACT.MTR8 | ! 6,144 | ! 6,144 | ! On-line load-modules |
| ! 06 | ! PAC.TE | ! 90 | ! 6,030 | ! Error Messsage file |
| ! 07 | ! PAC.TCFRA | ! 1067 ! (VB) | ! 10,674 | ! Backup of User ! parameter test file ! (French) |
| ! 08 | ! PAC.TCENG | ! 1067 ! (VB) | ! 10,674 | ! Backup of User ! parameter test file ! (English) |
| ! 09 | ! PACT.DBDLIB | ! 6,144 | ! 6,144 | ! DBD Library |
| ! 10 | ! PACT.PSBLIB | ! 6,144 | ! 6,144 | ! PSB Library |
| ! 11 | ! PACT.MACT | ! 32,000 | ! 32,000 | ! Macro-Struct. librar. ! for TUF-TP facility |
| ! 12 | ! PACT.README | ! 133 ! (FBA) | ! 5,320 | ! README File ! Version Infos |

23.3. ENVIRONMENT PREPARATION

PHASE 1 : PREPARATION OF THE ENVIRONMENT

This step consists in preparing the environment for the installation of Pactables, i.e. :

- . Choose the VSAM catalogs and provide for the necessary disk space,
- . Prepare the generation of IMS/DC by taking the following parameters into account:

PARAMETERS FOR THE GENERATION OF IMS/DC

For the following discussion the symbols yy and zz represent suffixes, and rr a root of your choice. However, the installation can be facilitated by using the following values for the DBD, PSB and Formats:

```
zz = 22      for the batch PSB suffix
yy = 22      for the DBD suffix
rr = P2      for the prefix of the on-line PSB,
              formats and transactions
```

1. Declaration of the DBD in use:

```
DBD names:  PACDTDyy      DATASET names: PAC7TDyy
             PACDTEyy      PAC7TEyy
             PACDTGyy      PAC7TGyy
             PACDTUyy      PAC7TUyy
             PACDTVyy      PAC7TVyy
             PACDTZyy      PAC7TZyy
             PACDTlyy      PAC7Tlyy
             PACDTByy      PAC7TByy
```

```
DATABASE ACCESS=UP,DBD=(PACDTDyy,...etc ...)
```

2. Declaration of Pactables transaction codes:
(Conversational transactions)

a) APPLCTN PSB=rrPxxx
TRANSACT CODE=rrCxxx,MSGTYPE=(SNGLSEG,RESPONSE),
MODE=SNGL,SEGSIZE=03500,
SPA=(150,DASD),EDIT=ULC

With the following values for xxx:

| | | | | |
|---------|---------|---------|---------|---------|
| xxx=500 | xxx=510 | xxx=520 | xxx=530 | xxx=540 |
| xxx=550 | xxx=560 | xxx=570 | xxx=580 | xxx=590 |
| xxx=599 | xxx=600 | xxx=610 | xxx=620 | xxx=LNK |

b) APPLCTN PSB=rrP501
TRANSACT CODE=tttttttt,MSGTYPE=(SNGLSEG,RESPONSE),
MODE=SNGL,SEGSIZE=03500,
SPA=(150,DASD),EDIT=ULC

With 'tttttttt' : Pactables transaction code.

c) APPLCTN PSB=rrP601
TRANSACT CODE=mmmmmmmm,MSGTYPE=(SNGLSEG,RESPONSE),
MODE=SNGL,SEGSIZE=03500,
SPA=(150,DASD),EDIT=ULC

With 'mmmmmmmm' : transaction code to access
the Pactables Password Modification transaction.

3. Declaration of BMPs:

APPLCTN PSB=PTA250rr (table generation)
APPLCTN PSB=PTA300rr (table update)

NOTES:

It is highly recommended to use Pactables transactions in RESPONSE mode.

SPAs must not be defined 'FIXED'.

IMS generation parameter sources are found on the tape, in the PDS of the SY
system parameters.

23.4. INITIAL JCL

INSTALLATION PREPARATION

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

The first step then consists in the allocation of a PDS file whose characteristics are the following:

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

(This allocation is not provided and must therefore be determined first by the person in charge of the installation).

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 JOBS necessary for the generation of Pactables complete installation and operation JCL.

This complete JCL is obtained via a parameterized skeleton JCL ('PACT.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 Pactables 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 when installing Pactables for the first time.
- . Execution of the MM1JCL which creates the Pactables 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 FUTURE
REINSTALLATIONS.

```

$CO***** PACTABLES $REL IMS/V$ $V$ $DATE *****
=//SEQ
//PACBASE0 JOB (---),'TAPE',CLASS=D,MSGCLASS=A
//ALLOC EXEC PGM=IEHINITT
//TIBM DD DISP=SHR,UNIT=(3480,,DEFER),VOL=(,RETAIN,SER=$BDEIIBM)
//TINST DD DISP=SHR,UNIT=(3480,,DEFER),VOL=(,RETAIN,SER=#####),
// DCB=DEN=3
//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.TIBM),LABEL=&LAB
//SYSUT2 DD DSN=&INDEX..&NAME,DISP=(,KEEP),
// VOL=(,RETAIN,REF=* .ALLOC.TINST),LABEL=&LAB,
// DCB=* .SYSUT1
// PEND
/*
//STEP01 EXEC PACCOP,LAB=01,NAME=JCL,INDEX=INST
//STEP02 EXEC PACCOP,LAB=02,NAME=MOD,INDEX=INST
//STEP03 EXEC PACCOP,LAB=03,NAME=JCL,INDEX=PACT
//STEP04 EXEC PACCOP,LAB=04,NAME=MBR8,INDEX=PACT
//STEP05 EXEC PACCOP,LAB=05,NAME=MTR8,INDEX=PACT
//STEP06 EXEC PACCOP,LAB=06,NAME=TE
//STEP07 EXEC PACCOP,LAB=07,NAME=TCFRA
//STEP08 EXEC PACCOP,LAB=08,NAME=TCENG
//STEP09 EXEC PACCOP,LAB=09,NAME=DBDLIB,INDEX=PACT
//STEP10 EXEC PACCOP,LAB=10,NAME=PSBLIB,INDEX=PACT
//STEP11 EXEC PACCOP,LAB=11,NAME=MACT,INDEX=PACT
//STEP12 EXEC PACCOP,LAB=12,NAME=README,INDEX=PACT
/*

```

INSTALLATION
INITIAL JCL

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```
//PACBASE1 JOB (---), 'UTI', CLASS=D, MSGCLASS=A
/*
//COPIE 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=02
//OM DD DISP=SHR, DSN=###.###.###
//SYSIN DD *
C I=((IM,R)), O=OM
/*
```

```
//PACBASE2 JOB (---), 'JCL INSTALLATION', CLASS=D, MSGCLASS=A
//*
//ET010 EXEC PGM=IEFB14
//DD1 DD DSN=##### , <-- JOB PDS NAME/NOM
// UNIT=%%%, VOL=SER=?????, <-- UNIT & VOLUME
// DISP=(,CATLG),
// SPACE=(TRK,(10,10,10)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080)
//*
//MM1JCL EXEC PGM=MM1JCL
//STEPLIB DD DISP=SHR,DSN=#####
//SYSOUT DD SYSOUT=A
//SYSUT1 DD DSN=PACT.JCL,DISP=OLD,
// UNIT=3480,VOL=(,RETAIN,SER=#####),LABEL=03
//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 'MM1JCL' --- *
/* ***** *
/* *
/* -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 'MM1JCL' --- *
/* ***** *
/* *
/* -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 (OPTIONAL) THE LINES TO BE ADDED AT THE *
/* BEGINNING OR AT THE END OF EACH JCL MODULE. *
/*****
//SYSPRM DD DUMMY
//SYSUT2 DD DSN=&&PACBASE2,DISP=(,PASS,DELETE),UNIT=#####
// SPACE=(TRK,(10,10),RLSE),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080)
//SYSIN DD *
===SELL <> .LANGUAGE SELECTION (ENG OR FRA)
===SELV SEC .PACTABLES SECURITY (RACF ACF2)
. PACTABLES SECURITE (RACF ACF2)
===SELV DTM .TABLE COMPARAISON UTILITY
. GESTIONNAIRE TABLES REPARTIES
===SELV TUF .TUF-TP
. TUF-TP
===PRM PRFJ=PAC .JOB NAMES PREFIXES (3 CHARACTERS)
. PREFIXE DES NOMS DE JOBS (3 CARACTERES)
===PRM CCPT=<> .JOB ACCOUNTING CDES (JOB CARDS)
. CODE COMPTABLE DES JOBS (CARTES JOB)
===PRM CLASSJ=1 .JOB EXECUTION CLASS (JOB CARDS)
. CLASSE EXECUTION DES JOBS (CARTES JOB)
===PRM MSGCL=A .JCL OUTPUT CLASS (MSGCLASS)
. CLASSE DE SORTIE DU JCL (MSGCLASS)
===PRM UTAPE=3480 .CARTRIDGE UNIT
. UNITE DE CARTOUCHE
===PRM TAPEI=<> .NAME OF INSTALLATION CARTRIDGE
. NOM DE LA CARTOUCHE D'INSTALLATION
===PRM OUT=A .JOB SYSOUT CLASS
. CLASSE DE SYSOUT DANS LES JOBS
===PRM INDEX='PAC25IMS.IMS' .VSAM FILE INDEXES
. INDEX DES FICHIERS VSAM
===PRM INDEXP='PAC25.SEQ' .NO VSAM FILE INDEXES
. INDEX DES FICHIERS NON VSAM
===PRM INDEXQ='PAC25.SEQ' .GENERATION FILE INDEXES
. INDEX DES FICHIERS A GENERATION
===PRM ROOT='P2' .ROOT OF SYSTEM (2 CHARACTERS)
```



```

====PRM HEXA='D7F2'      .RADICAL DU SYSTEME (2 CARACTERES)
                          .ROOT OF SYSTEM (PRM ROOT) IN HEXA
                          .RADICAL DU SYSTEME (PRM ROOT) EN HEXA
====PRM FILE='00'       .NUMBER OF USER'S PACTABLES DATABASE
                          .NUMERO DE BASE UTILISATEUR (2 CHIFFRES)
====PRM SUF='22'        .SUFFIX OF DBD (2 CHARACTERS)
                          .SUFFIXE DES DBD (2 CARACTERES)
====PRM SUFR='20'       .SUFFIX OF DBD PREVIOUSLY INSTALLED
                          .SUFFIXE DES DBD PRECEDEMMENT INSTALLES
====PRM SUG='22'        .SUFFIX OF BATCH PSB (2 CARACTERES)
                          .SUFF. DES PSB BATCH (2 CARACTERES)
====PRM SUPPB='25'     .SUFFIX OF VA PAC DBD (AN-AR-AE)
                          .SUFFIXE DES DBD VA PAC
====PRM RADP='T250'    .PREFIX OF CATALOGUED PROCEDURES NAMES
                          .PREFIXE NOMS DE PROCEDURES CATALOGUEES
====PRM REGSIZ='1536K' .SIZE OF THE REGION BATCH PROCEDURES
                          .TAILLE REGION POUR PROCEDURES BATCH
====PRM IMSID='CGIB'   . 'IMSID' PARAMETER FOR BMP PROCEDURE
                          .PARAMETRE 'IMSID' POUR PROCEDURES BMP
====PRM DBRC=N         .USING DBRC IN BATCH PROCEDURES (N=NO)
                          .UTILISATION DBRC DANS PROC.BATCH (N=NO)
====PRM IRLM=N         .USING IRLM IN BATCH PROCEDURES (N=NO)
                          .UTILISATION IRLM DANS PROC.BATCH (N=NO)
====PRM VOLV=<>       .VOLUME OF SYSTEM VSAM FILES
                          .VOLUME DES FICHIERS SYSTEMES
====PRM VOLU=<>       .VOLUME OF USER VSAM FILES
                          .VOLUME DES FICHIERS UTILISATEUR
====PRM CATV=<>       .CATALOG OF SYSTEM VSAM FILES
                          .CATALOGUE VSAM FICHIERS SYSTEME
====PRM CATU=<>       .CATALOG OF USER VSAM FILES
                          .CATALOGUE VSAM FICHIERS UTILISATEUR
====PRM UWK=SYSDA     .WORK UNIT
                          .UNITE DE TRAVAIL
====PRM UNITP=3390    .NO VSAM SYSTEM FILES UNIT
                          .UNITE DES FICHIERS SYSTEMES NON VSAM
====PRM UNITO=3390    .NO USER VSAM FILES UNIT
                          .UNITE DES FICHIERS UTILISATEURS NON VSAM
====PRM UNITV=3390    .VSAM SYSTEM FILES UNIT
                          .UNITE DES FICHIERS SYSTEMES VSAM
====PRM UNITU=3390    .VSAM USER FILES UNIT
                          .UNITE DES FICHIERS UTILISATEURS VSAM
====PRM VOLP=<>       .NO VSAM SYSTEM FILES VOLUME
                          .VOLUME DES FICHIERS SYSTEMES NON VSAM
====PRM VOLO=<>       .NO VSAM USER FILES VOLUME
                          .VOLUME FICHIERS UTILISATEUR NON VSAM
====PRM MODB='PAC25.PGMLIBBH' .LIBRARY OF BATCH MODULES
                          .BIBLIOTHEQUE DES MODULES BATCH
====PRM MODT='PAC25.PGMLIBTP' .LIBRARY OF ON-LINE MODULES
                          .BIBLIOTHEQUE DES MODULES TP
====PRM BIBP='SYS1.PROCLIB' .PROCEDURE LIBRARY
                          .BIBLIOTHEQUE DES PROCEDURES
====PRM BIBT='SYS1.SORTLIB' .SORT LIBRARY
                          .BIBLIOTHEQUE DE TRI
====PRM MACT='PAC25.MACLIB' .TUF-TP MACROS LIBRARY
                          .BIBLIOTHEQUE DES MACROS TUF-TP
====PRM PSBLIB='IMSVS.PSBLIB' .PSB LIBRARY
                          .BIBLIOTHEQUE PSB
====PRM DBDLIB='IMSVS.DBDLIB' .DBD LIBRARY
                          .BIBLIOTHEQUE DBD
====PRM ACBLIB='IMSVS.ACBLIB' .ACB LIBRARY
                          .BIBLIOTHEQUE ACB
====PRM RESLIB='IMSVS.RESLIB' .IMS RESLIB
                          .RESLIB IMS
====PRM PRCLIB='IMSVS.PROCLIB' .IMS PROCLIB
                          .PROCLIB IMS
====PRM TRANT='TABLES' .TRANSACTION CODE TO PACTABLES
                          .CODE TRANSACTION CONNEXION A PACTABLES
====PRM TRANP='PASSWORD' .TRANSACTION CODE TO MODIFY THE PASSWORD
                          .CODE TRANS. MODIFICATION MOT DE PASE
====PRM CLS='2'       .CLASS FOR TRANSACTION CODES
                          .CLASSE POUR LES CODES TRANSACTION

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

```

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INITIAL JCL

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```
/*  
/*  
//ET020 EXEC PGM=IEBUPDTE,PARM=NEW  
//SYSPRINT DD SYSOUT=$S  
//SYSUT1 DD DSN=*.ET010.DD1,DISP=SHR  
//SYSUT2 DD DSN=*.ET010.DD1,DISP=SHR  
//SYSIN DD DSN=&&PACBASE2,DISP=(OLD,DELETE)  
//
```

23.5. 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 the installation language (French or English),
- . 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
- .Table of variants
- .Table of JCL modules
- .Parameter chart
- .JCL separators

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 CATALOGS 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 on the site, the resulting JCL may remain unchanged.

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

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

Blocking criteria for large files can also be changed.

CAUTION: SMS

- . 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 under 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 up into 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 up, 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.

CODING OF MMIJCL COMMANDS

```
===SELL lll           .Selection of the installation  
                      language  
  
===SELV vvvv         .Selection of variant  
                      vvvv = variant code  
  
===SELM mmmm1 mmmm2 ... .Selection of JCL modules  
                      mmmm1 = name of JCL module  
                      mmmm2 = name of JCL module  
                      etc.  
                      The absence of a ===SELM line  
                      involves the selection of all  
                      JCL modules.  
  
===PRM PPPP=pppp     .Parameter  
                      PPPP = name of parameter  
                      pppp = value of parameter
```

NOTE: On ===PRM or ===SELV lines, comments may be entered.
They must be preceded by a period, and not jut out
over 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             )
```

23.6. *INSTALLATION DEFAULT SETTINGS*

INSTALLATION DEFAULT SETTINGS

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

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

.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>

23.7. JCL VARIANTS

TABLE OF VARIANTS

===SELV VVVV .Comments

| ! VVVV | ! MEANING | ! TYPE |
|--------|------------------------------|-------------|
| ! SEC | ! Security Systems Interface | ! Extension |
| ! DTM | ! Dispatched Table Manager | ! '' |
| ! TUF | ! TUF-TP Facility | ! '' |

Read the Pactables JCL file:
DSN=PACT.JCL,LABEL=(03,SL), using the MM1JCL module in order
to create an adjusted JCL.

TABLE OF JCL MODULES: ===SELM mmmm1 mmmm2 ... mmmmn

| ! mmmm | ! Contents | ! Nature |
|------------|---------------------------------------|----------|
| ! PACTSY | ! IEBUPDTE : Load PDS parameters | ! OS JCL |
| ! PACTPROC | ! IEBUPDTE : Load Batch procedures | ! OS JCL |
| ! PACTDBD | ! IEBCOPY : Load DBD load-modules | ! OS JCL |
| ! PACTPSB | ! IEBCOPY : Load PSB load-modules | ! OS JCL |
| ! PACTSYS | ! IEBCOPY : Load Load-modules | ! OS JCL |
| ! PACTTE | ! Loading of TE user database | ! OS JCL |
| ! PACTTC | ! Loading of test backup | ! OS JCL |
| ! PACTTZ | ! Loading of SPA databases (TZ) | ! OS JCL |
| ! PACTTB | ! Loading of TUF-TP databases (TB) | ! OS JCL |
| ! PACTTAB | ! Loading of TG TD TV test databases! | ! OS JCL |
| ! PACTACB | ! ACBGEN : generation of ACBs | ! OS JCL |
| ! PACTCTF | ! download TUF-TP macro-structures | ! OS JCL |
| ! TO2R73 | ! Retrieval 7.3 ---> 2.0 | ! OS JCL |
| ! TO2TTA | ! Retrieval 8.02 or 1.2 ---> 2.0 | ! OS JCL |
| ! TO2CD1 | ! Test CDT1 procedure | ! OS JCL |
| ! TO2CD2 | ! Test CDT2 procedure | ! OS JCL |
| ! TO2CVT | ! Test CVTA procedure | ! OS JCL |
| ! TO2EXT | ! Test EXTA procedure | ! OS JCL |
| ! TO2GET | ! Test GETT procedure | ! OS JCL |
| ! TO2IMT | ! Test IMTA procedure | ! OS JCL |
| ! TO2INT | ! Test INTA procedure | ! OS JCL |
| ! TO2LPT | ! Test LPTA procedure | ! OS JCL |
| ! TO2PMT | ! Test PMTA procedure | ! OS JCL |
| ! TO2PRT | ! Test PRTA procedure | ! OS JCL |
| ! TO2RET | ! Test RETA procedure | ! OS JCL |
| ! TO2RST | ! Test RSTA procedure | ! OS JCL |
| ! TO2SVT | ! Test SVTA procedure | ! OS JCL |
| ! TO2TCT | ! Test TCTA procedure | ! OS JCL |
| ! TO2TUT | ! Test TUTA procedure | ! OS JCL |
| ! TO2UPT | ! Test UPTA procedure | ! OS JCL |

23.8. JCL PARAMETERIZATION

PARAMETER CHART

```

===PRM PPPP=pppp                                .Comments

+-----+-----+-----+
!CODE   ! MEANING                                ! DEFAULT !
!PPPP   !                                         ! pppp    !
+-----+-----+-----+
!       !           ON THE JOB CARDS             !         !
!       !           -----                     !         !
!PRFJ   ! job name prefix                        ! PAC     !
!CCPT   ! Job accounting information             ! <>      !
!CLASSJ ! Job execution class                   ! 1       !
!MSGCL  ! Output class                          ! A       !
!       !                                         !         !
!       !           CODING OF FILE DSNAMES       !         !
!       !           -----                     !         !
!       ! !The names of all permanent Pactables !         !
!       ! !files, except load-module libraries, !         !
!       ! !are coded as follows:                !         !
!       ! -----                               !         !
!       ! INDEX.xxxxss ! VSAM System Files !         !
!       ! INDEXP.xxxxss ! NON VSAM System !         !
!       ! INDEX.xxnss ! VSAM User Files !         !
!       ! INDEXQ.xxnss ! NON VSAM User Files !         !
!       !           (GDG)                       !         !
!       !                                         !         !
!       ! IND-- Index of file names:           !         !
!INDEX  ! VSAM-system and user                 ! PAC25IMS.IMS!
!INDEXP ! NON-VSAM-system (SAM, PDS)          ! PAC25.SEQ  !
!INDEXQ ! NON-VSAM-user (GDG)                ! PAC25.SEQ  !
!       !                                         !         !
!       ! xx=ROOT, nn=file ss=file code      !         !
!ROOT   ! Root of the Pactables System        ! P2        !
!       ! (2 characters other than 'ZZ')      !         !
!FILE   ! Pactables database user number     ! 00       !
!       ! (2 numeric charact. other than '99') !         !
+-----+-----+-----+

```

PARAMETER CHART (continued)

| !CODE | ! MEANING | ! DEFAULT | ! |
|---------------------------|---------------------------------------|-----------|---|
| !PPPP | ! | ! PPPP | ! |
| +-----+-----+-----+-----+ | | | |
| ! | ! ON THE DD CARDS | ! | ! |
| ! | ! ----- | ! | ! |
| !OUT | !SYSOUT class | ! A | ! |
| !UTAPE | !Unit type | ! TAPE | ! |
| !TAPEI | !Serial number of your copy of the | ! <> | ! |
| ! | ! installation tape provided by IBM. | ! | ! |
| !UWK | !Unit of user workfile | ! SYSDA | ! |
| !UNITP | !Unit of NON VSAM System files | ! SYSDA | ! |
| !UNITO | !Unit of NON VSAM User files | ! SYSDA | ! |
| !UNITV | !Unit of VSAM System files | ! SYSDA | ! |
| !UNITU | !Unit of VSAM User files | ! SYSDA | ! |
| !VOLP | !NON VSAM System Files Volume Name | ! <> | ! |
| !VOLV | !VSAM System Files Volume Name | ! <> | ! |
| !VOLO | !NON VSAM User Files Volume Name | ! <> | ! |
| !VOLU | !VSAM User Files Volume Name | ! <> | ! |
| ! | ! | ! | ! |
| ! | ! OTHER PARAMETERS | ! | ! |
| ! | ! ----- | ! | ! |
| !HEXA | !Hexadecimal value of the system ROOT | ! D7F2 | ! |
| ! | !(see parameter ROOT) | ! | ! |
| !RADP | !Prefix of procedures to install | ! T250 | ! |
| ! | ! (4 characters maximum) | ! | ! |
| ! | !Do not modify this parameter unless | ! | ! |
| ! | ! T250, already used for Pactables | ! | ! |
| ! | ! procedures, is not suitable | ! | ! |
| !REGSIZ | !Region size for batch procedures | ! 1536K | ! |
| !IMSID | !IMSID parameter for BMP procedures | ! CGIB | ! |
| !DBRC | !DBRC use in batch procedures | ! N | ! |
| !IRLM | !IRLM use in batch procedures | ! N | ! |
| +-----+-----+-----+-----+ | | | |

| !CODE | ! MEANING | ! DEFAULT | ! |
|---------|---|---------------|---|
| !PPPP | ! | ! PPPP | ! |
| !CATU | !VSAM Catalog DSNAME on which the Test! | <> | ! |
| ! | !database set up at installation is to! | | ! |
| ! | !be cataloged | | ! |
| !CATV | !VSAM Catalog dsname for the Table | <> | ! |
| ! | ! Management files. | | ! |
| !MODB | !DSNAME of batch load-modules | PAC25. | ! |
| ! | ! Library for Pactables | PGMLIBBH | ! |
| !MODT | !DSNAME of on-line load-modules | PAC25. | ! |
| ! | ! Library for Pactables | PGMLIBTP | ! |
| !BIBP | !DSNAME of Library for cataloged | SYS1.PROCLIB! | ! |
| ! | ! Pactables procedures | | ! |
| !BIBT | !User Sort Library DSNAME | SYS1.SORTLIB! | ! |
| !MACT | !TUF-TP Macro-structures library | PAC25.MACLIB! | ! |
| !PSBLIB | !PSB Library DSNAME | IMSVS.PSBLIB! | ! |
| !DBDLIB | !DBD Library DSNAME | IMSVS.DBDLIB! | ! |
| !RESLIB | !IMS RESCLIB Library DSNAME | IMSVS.RESLIB! | ! |
| !PRCLIB | !IMS PROCLIB Library DSNAME | IMSVS.PROCLI! | ! |
| !ACBLIB | !IMS ACBLIB Library DSNAME | IMSVS.ACBLIB! | ! |
| ! | ! | | ! |
| !SUF | !DBD suffix | 22 | ! |
| !SUFR | !DBD suffix for previously installed | | ! |
| ! | !release (different from SUF) | 73 | ! |
| !SUFPB | !VA PAC DBD suffix (AN, AR, AE) | 22 | ! |
| !SUG | !Batch PSB suffix | 22 | ! |
| !TRANT | !Pactables connection transct. code | TABLES | ! |
| !TRANP | !Transaction code for Modification of | PASSWORD | ! |
| ! | !User Passwords | | ! |
| !CLS | !TP transaction class | 2 | ! |

Note: The '<>' indicates a parameter which must be coded.

Parameter values containing special characters must be delimited by quotes.

23.9. 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 at the end of each JCL module.

23.10. INSTALLATION PROCESS

PHASE 3 : INSTALLATION

The JCL obtained contains 12 installation jobs:

- 1.\$prfj.TSY : Loading the parameters in PDS
- 2.\$prfj.TPROC : Loading the Batch procedures
- 3.\$prfj.TDBD : Loading DBDLIB (Load-modules)
- 4.\$prfj.TPSB : Loading PSBLIB (Load-modules)
- 5.\$prfj.TSYS : Loading programs, system database/files
- 6.\$prfj.TTE : Initial loading of TE
- 7.\$prfj.TTC : Initial loading of TC (TG TD TV backup)
- 8.\$prfj.TTZ : Loading of the TZ database (SPA)
- 9.\$prfj.TTB : Loading of the TB database (TUF-TP)
- 10.\$prfj.TTAB : Loading of TG, TV and TD test databases
- 11.\$prfj.TACB : Compiling of the ACBs
- 12.\$prfj.TCTF : Loading of TUF-TP macrostructures.

The installation is carried out in the order of the obtained JOBS, some of which are optional.

1. LOADING THE SYSTEM PARAMETERS

ET010: IEBUPDTE: Loading the 'parameters' which represent:

- Definitions (DELETE/DEFINE) and Verifications (VERIFY) of VSAM files.
- The DBD and PSB source files
- The DFSVSAMP definition
- The PACTCTRL member used by the System staff:
It contains the descriptions of macro-instructions 'APPLCTN' and 'TRANSACT' of the Pactables function. Both macros must be defined in the IMS CONTROL REGION.

2. LOADING THE BATCH PROCEDURES

ET010: IEBUPDTE: Loading the operation procedures in a PROCLIB. Each procedure is a member coded as '\$RADP.NNNN', where \$RADP is the root chosen at the generation of the JCL and NNNN, the standard procedure name. Each procedure is described in a specific chapter in this manual.

3. LOADING THE DBDLIB

The installation tape contains the DBDs of the databases as object and source code.

The \$PRFJ.TDBD Job executes the loading of the DBD object code into the DBDLIB via IEBCOPY.

The loading is to be executed only if the values selected in the Generation JCL are as follows:

| For: | Value: |
|---|--------|
| A) The DBD Suffix ('SUF' parameter).....: | '22' |
| B) The disk type supporting the database ('UNITU' and 'UNITV' parameters).....: | 3390 |

And

C) The C.I. size provided in the parameters of the DEFINE of the databases has not been altered.

Otherwise, a recompiling of the source must be executed. It would then be necessary to verify the contents and specifically, if the C.I. size has been changed, to adjust the size of the macros.

The source has been cataloged in the Parameter File (SY) under the name PACDxxyy, with yy = value of 'SUF' parameter, and xx = TD, TE, TG, TU, TV, TZ, T1 and TB.

The Compile JCL is not provided.

Space used: Refer to the summary chart in subchapter 'SYSTEM SIZE REQUIREMENT, chapter ENVIRONMENT, in the VisualAge Pacbase ENVIRONMENT AND INSTALLATION Manual.

4. LOADING OF THE PSBLIB

The installation tape contains the PSBs as object and source code.

The \$PRFJ.TPSB Job executes the loading of the PSB object code into the PSBLIB via IEBCOPY.

The loading is to be executed only if the values selected in the Generation JCL are as follows:

```
For:                                     Value:
A) The DBD Suffix ('SUF' parameter).....: '12'
B) The root of the system ('ROOT' param.): 'P2'
C) The batch PSB suffix ('SUG' parameter): '22'
D) The suffix of previously installed DBSs: '73'
    (Parameter SUFR used in PTAXVG, PTAXVV, PTAXVD)
    (7.3 Retrieval procedure)
```

Otherwise, a recompiling of the source must be executed. The sources are catalogued in the Parameters File (SY), under the name xxxxxxzz for batch PSBs, ryyyyy for on-line PSBs, with zz = value of the 'SUG' parameter, rr = value of 'ROOT' parameter,

```
xxxxxx= PTABVS PTAINI PTASTD
PTAT10 PTAT15 PTAT17 PTAU80 PTAXDT PTAXVD PTAXVV PTAXVG
PTA100 PTA120 PTA150 PTA160 PTA250 PTA290 PTA300 PTA302
PTA310 PTA312 PTA320 PTA350 PTA360 PTA400 PTA420 PTARSD
PTARSG PTARSV PTASVV PTASVD PTASVG PTAT19 PTAT40 PTAREO
```

for the DISPATCHED TABLE MANAGEMENT function:
PTAD05 PTAD10 PTAD20 PTAV10 PTAV20

and for yyyy = P500 P501 P510 P512 P520 P522 P530 P540 P550
P560 P570 P580 P590 P599 P600 P601 PLNK
and for the DISPATCHED TABLE MANAGEMENT function: P610 P620

The Compile JCL is not provided.

Space used: Refer to the summary chart in Subchapter 'SYSTEM SIZE REQUIREMENT', chapter ENVIRONMENT, in the VisualAge Pacbase ENVIRONMENT AND INSTALLATION Manual.

5. LOADING OF LOAD-MODULES, SYSTEM DATABASES AND FILES

ET010: IEBCOPY: Loading the on-line and batch load-modules.

ET015: IMASPZAP:

ET016: IMASPZAP: to be executed only if the root supplied, 'P2, is changed to another value. The selected value must be coded in hexadecimal for the ZAPs of \$ROOT.P501 and \$ROOT.P601.

ET017: IEBCOPY (Security System Interface Extension - SEC option only). This step allows to load the PACSECU sub-program in an authorized program library.

6. LOADING OF ERROR MESSAGES DATABASE (TE)

ET010: IEHPROGM: SCRATCH-UNCATLG of the file whose suffix is IN (source of the error messages).

ET020: IDCAMS : Copy the error messages onto the file whose suffix is IN (source of the error messages).

ET030: \$RADP.LDTE : Loading of TE error message database.

7. LOADING OF THE SPA DATABASE (TZ)

ET010: \$RADP.LDTZ: Loading the SPA database (TZ).

This job is only run during the first installation.

8. LOADING OF THE TUF-TP WORKING DATABASE (TB)

ET010 : \$RADP.LDTB : Loading of the TUF-TP database.

This job is run only during the first installation.

9. CREATING THE GENERATION BACKUP FILE (TC)

ET010: IEHPROGM: Creating a model DSCB

ET015: IEFBR14

ET020: IDCAMS: Creating a file

ET040: IEBGENER: Loading TC(0) from the installation tape test database

10. LOADING OF TEST DATABASES (TD, TV and TG)

ET010: \$radp.RMTA : loading TD, TV and TG test databases from TC files

11. COMPILING ACBs

ET010: ACBGEN.

This step constructs all the ACB's needed for Pactables on-line use.

It must be executed after the loading of the DBDLIB and PSBLIB (either by copying the object modules or by the compiling of the DBDs and the PSBs).

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

JOB \$prfj.TCTF

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

These Macros-structures are supplied in the form of transactions which are to be used as input to the UPDT procedure. It is then required to update the VA Pac Database before using the TUF-TP facility and this, in order to take these Macro-structures into account.

STEP1: IDCAMS: DELETE Macro-structures library

STEP2: IDCAMS: Allocation of Macro-structures library

STEP3: IEBCOPY: Loading of Macro-structures in the library already allocated.

USER OPERATION COMPLEMENTS

The backups and restorations of Pactables databases and files must be made by utilities.

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 IMS journal file.

23.11. JCL: LOADING OF PARAMETERS IN 'SY'

```
//$PRFU.TSY JOB ($CPT), 'LOAD TABLE PARAM.', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//*          LOADING PACTABLES PARAMETERS IN THE 'SY' PDS          *
//*****
//*
//*  *-----*
//*  *          I M P O R T A N T          *
//*  *          -----*
//*  *          BEFORE EXECUTING THIS JOB, REPLACE ALL          *
//*  *          ':' WITH '.' VIA THE EDITOR.          *
//*  *-----*
//*
//*  *-----*
//*  *          N O T E          *
//*  *          -----*
//*  * THESE PARAMETERS CONTAIN THE SYSINS FOR ALLOCA- *
//*  * TING FILES AND DATABASES USED IN THE PACTABLES *
//*  * MANAGEMENT FUNCTION. THE SIZES INDICATED CAN BE *
//*  * ADAPTED TO YOUR REQUIREMENTS. *
//*  *-----*
//*
//ET005 EXEC PGM=IEHPRGM
//SYSPRINT DD SYSOUT=$OUT
//DD1 DD UNIT=$UNITP, VOL=SER=$VOLP, DISP=SHR
//SYSIN DD *
        UNCATLG DSN=$INDEXP..$ROOT.$ROOT.SY
        SCRATCH DSN=$INDEXP..$ROOT.$ROOT.SY, VOL=$UNITP=$VOLP
//*
//ET007 EXEC PGM=IEFBR14
//DDA DD DSN=$INDEXP..$ROOT.$ROOT.SY, DISP=(,CATLG,DELETE),
//      UNIT=$UNITP, VOL=SER=$VOLP,
//      DCB=(RECFM=FB, LRECL=80, BLKSIZE=6080),
//      SPACE=(TRK,(03,02,05))
//*
//ET010 EXEC PGM=IEBUPDTE, PARM=NEW
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$INDEXP..$ROOT.$ROOT.SY, DISP=SHR
//SYSIN DD *
:/ ADD NAME=PACDTS$SUF
    DBD NAME=PACDTS$SUF, ACCESS=(HISAM, VSAM)
    DATASET DD1=PAC7TD$SUF, DEVICE=$UNITU, $A
            RECORD=248, SIZE=4096
    SEGM NAME=PAC7TD, BYTES=240
    FIELD NAME=(CLET, SEQ, U), BYTES=21, START=1
    DBDGEN
    END
:/ ADD NAME=PACDTE$SUF
    DBD NAME=PACDTE$SUF, ACCESS=(HISAM, VSAM)
    DATASET DD1=PAC7TE$SUF, DEVICE=$UNITU, $A
            RECORD=98, SIZE=4096
    SEGM NAME=PAC7TE, BYTES=90
    FIELD NAME=(CLETE, SEQ, U), BYTES=17, START=1
    DBDGEN
    END
:/ ADD NAME=PACDTG$SUF
    DBD NAME=PACDTG$SUF, ACCESS=(HISAM, VSAM)
    DATASET DD1=PAC7TG$SUF, DEVICE=$UNITU, $A
            RECORD=94, SIZE=4096
    SEGM NAME=PAC7TG, BYTES=85
    FIELD NAME=(CLETG, SEQ, U), BYTES=22, START=1
    DBDGEN
    END
:/ ADD NAME=PACDTU$SUF
    DBD NAME=PACDTU$SUF, ACCESS=(INDEX, VSAM)
    DATASET DD1=PAC7TU$SUF, DEVICE=$UNITU
    SEGM NAME=IPAC7TU, BYTES=35
    FIELD NAME=(CLETU, SEQ, U), BYTES=35, START=1
```

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        LCHILD  NAME=( PAC7TV , PACDTV$$SUF ) , INDEX=CLETV
        DBDGEN
        END
:/ ADD NAME=PACDTV$$SUF
        DBD      NAME=PACDTV$$SUF , ACCESS=( HIDAM , VSAM )
        DATASET DD1=PAC7TV$$SUF , DEVICE=$UNITU ,           $A
                SIZE=4096
        SEGM     NAME=PAC7TV , BYTES=( 1100 , 0080 )
        FIELD    NAME=( CLETV , SEQ , U ) , BYTES=35 , START=5
        LCHILD   NAME=( IPAC7TU , PACDTU$$SUF ) , PTR=INDX
        DBDGEN
        END
:/ ADD NAME=PACDTZ$$SUF
        DBD      NAME=PACDTZ$$SUF , ACCESS=( HISAM , VSAM )
        DATASET DD1=PAC7TZ$$SUF , DEVICE=$UNITU ,           $A
                RECORD=8510 , SIZE=10240
        SEGM     NAME=PAC7TZ , BYTES=8500
        FIELD    NAME=( CLETZ , SEQ , U ) , BYTES=11 , START=1
        DBDGEN
        END
:/ ADD NAME=PACDT1$$SUF
        DBD      NAME=PACDT1$$SUF , ACCESS=( INDEX , VSAM )
        DATASET DD1=PAC7T1$$SUF , DEVICE=$UNITU
        SEGM     NAME=IPAC7T1 , BYTES=63
        FIELD    NAME=( CLET1 , SEQ , U ) , BYTES=63 , START=1
        LCHILD   NAME=( PAC7TB , PACDTB$$SUF ) , INDEX=CLETB
        DBDGEN
        END
:/ ADD NAME=PACDTB$$SUF
        DBD      NAME=PACDTB$$SUF , ACCESS=( HIDAM , VSAM )
        DATASET DD1=PAC7TB$$SUF , DEVICE=$UNITU ,           $A
                SIZE=4096
        SEGM     NAME=PAC7TB , BYTES=( 1140 , 0080 )
        FIELD    NAME=( CLETB , SEQ , U ) , BYTES=63 , START=4
        LCHILD   NAME=( IPAC7T1 , PACDT1$$SUF ) , PTR=INDX
        DBDGEN
        END
:/ ADD NAME=PTABVS$$SUG
        PCB      TYPE=DB , DBDNAME=PACDTD$$SUF , PROCOPT=GOT , KEYLEN=21
        SENSEG   NAME=PAC7TD
        PCB      TYPE=DB , DBDNAME=PACDTV$$SUF , PROCOPT=GOT , KEYLEN=35
        SENSEG   NAME=PAC7TV
        PSBGEN   PSBNAME=PTABVS$$SUG , LANG=COBOL , CMPAT=YES
        END
===SEQ FOR DTM
:/ ADD NAME=PTAD05$$SUG
        PCB      TYPE=DB , DBDNAME=PACDTD$$SUF , PROCOPT=GOT , KEYLEN=21
        SENSEG   NAME=PAC7TD
        PCB      TYPE=DB , DBDNAME=PACDTE$$SUF , PROCOPT=GOT , KEYLEN=17
        SENSEG   NAME=PAC7TE
        PCB      TYPE=DB , DBDNAME=PACDTG$$SUF , PROCOPT=GOT , KEYLEN=22
        SENSEG   NAME=PAC7TG
        PSBGEN   PSBNAME=PTAD05$$SUG , LANG=COBOL , CMPAT=YES
        END
:/ ADD NAME=PTAD10$$SUG
        PCB      TYPE=DB , DBDNAME=PACDTD$$SUF , PROCOPT=GOT , KEYLEN=21
        SENSEG   NAME=PAC7TD
        PCB      TYPE=DB , DBDNAME=PACDTE$$SUF , PROCOPT=GOT , KEYLEN=17
        SENSEG   NAME=PAC7TE
        PSBGEN   PSBNAME=PTAD10$$SUG , LANG=COBOL , CMPAT=YES
        END
:/ ADD NAME=PTAD20$$SUG
        PCB      TYPE=DB , DBDNAME=PACDTD$$SUF , PROCOPT=A , KEYLEN=21
        SENSEG   NAME=PAC7TD
        PCB      TYPE=DB , DBDNAME=PACDTE$$SUF , PROCOPT=G , KEYLEN=17
        SENSEG   NAME=PAC7TE
        PCB      TYPE=DB , DBDNAME=PACDTV$$SUF , PROCOPT=A , KEYLEN=35
        SENSEG   NAME=PAC7TV
        PSBGEN   PSBNAME=PTAD20$$SUG , LANG=COBOL , CMPAT=YES
        END
===SEQ
:/ ADD NAME=PTAINI$$SUG
        PCB      TYPE=DB , DBDNAME=PACDTD$$SUF , PROCOPT=L , KEYLEN=21

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SENSEG      NAME=PAC7TD
PCB         TYPE=DB,DBDNAME=PACDTV$SUF,PROCOPT=L,KEYLEN=35
SENSEG      NAME=PAC7TV
PSBGEN     PSBNAME=PTAINI$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAREO$SUG
PCB         TYPE=DB,DBDNAME=PACDTD$SUF,PROCOPT=L,KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB,DBDNAME=PACDTV$SUF,PROCOPT=L,KEYLEN=35
SENSEG      NAME=PAC7TV
PSBGEN     PSBNAME=PTAREO$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTARSG$SUG
PCB         TYPE=DB,DBDNAME=PACDTG$SUF,PROCOPT=L,KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN     PSBNAME=PTARSG$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTARSV$SUG
PCB         TYPE=DB,DBDNAME=PACDTV$SUF,PROCOPT=L,KEYLEN=35
SENSEG      NAME=PAC7TV
PSBGEN     PSBNAME=PTARSV$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTARSD$SUG
PCB         TYPE=DB,DBDNAME=PACDTD$SUF,PROCOPT=L,KEYLEN=21
SENSEG      NAME=PAC7TD
PSBGEN     PSBNAME=PTARSD$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTASTD$SUG
PCB         TYPE=DB,DBDNAME=PACDTD$SUF,PROCOPT=GOT,KEYLEN=21
SENSEG      NAME=PAC7TD
PSBGEN     PSBNAME=PTASTD$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTASVG$SUG
PCB         TYPE=DB,DBDNAME=PACDTG$SUF,PROCOPT=GE,KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN     PSBNAME=PTASVG$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTASVV$SUG
PCB         TYPE=DB,DBDNAME=PACDTV$SUF,PROCOPT=GE,KEYLEN=35
SENSEG      NAME=PAC7TV
PSBGEN     PSBNAME=PTASVV$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTASVD$SUG
PCB         TYPE=DB,DBDNAME=PACDTD$SUF,PROCOPT=GE,KEYLEN=21
SENSEG      NAME=PAC7TD
PSBGEN     PSBNAME=PTASVD$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAT10$SUG
PCB         TYPE=DB,DBDNAME=PACDTE$SUF,PROCOPT=L,KEYLEN=17
SENSEG      NAME=PAC7TE
PSBGEN     PSBNAME=PTAT10$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAT15$SUG
PCB         TYPE=DB,DBDNAME=PACDTG$SUF,PROCOPT=L,KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN     PSBNAME=PTAT15$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAT17$SUG
PCB         TYPE=DB,DBDNAME=PACDTZ$SUF,PROCOPT=L,KEYLEN=11
SENSEG      NAME=PAC7TZ
PSBGEN     PSBNAME=PTAT17$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAT19$SUG
PCB         TYPE=DB,DBDNAME=PACDTB$SUF,PROCOPT=L,KEYLEN=63
SENSEG      NAME=PAC7TB
PSBGEN     PSBNAME=PTAT19$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTAT40$SUG
PCB         TYPE=DB,DBDNAME=PACDAN$SUFPPB,PROCOPT=GOT,KEYLEN=43
SENSEG      NAME=PAC7AN
PCB         TYPE=DB,DBDNAME=PACDAR$SUFPPB,PROCOPT=GOT,KEYLEN=07
SENSEG      NAME=PAC7AR
PCB         TYPE=DB,DBDNAME=PACDAE$SUFPPB,PROCOPT=GOT,KEYLEN=12

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SENSEG      NAME=PAC7AE
PSBGEN      PSBNAME=PTAT40$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTAU80$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB, DBDNAME=PACDTE$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG      NAME=PAC7TE
PCB         TYPE=DB, DBDNAME=PACDTV$SUF, PROCOPT=GOT, KEYLEN=35
SENSEG      NAME=PAC7TV
PCB         TYPE=DB, DBDNAME=PACDTG$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN      PSBNAME=PTAU80$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTAXVG$SUG
PCB         TYPE=DB, DBDNAME=PACDTG$SUFR, PROCOPT=GE, KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN      PSBNAME=PTAXVG$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTAXVV$SUG
PCB         TYPE=DB, DBDNAME=PACDTV$SUFR, PROCOPT=GE, KEYLEN=33
SENSEG      NAME=PAC7TV
PSBGEN      PSBNAME=PTAXVV$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTAXVD$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUFR, PROCOPT=GE, KEYLEN=19
SENSEG      NAME=PAC7TD
PSBGEN      PSBNAME=PTAXVD$SUG, LANG=COBOL, CMPAT=YES
END
===SEQ FOR DTM
:/ ADD NAME=PTAV10$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB, DBDNAME=PACDTE$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG      NAME=PAC7TE
PCB         TYPE=DB, DBDNAME=PACDTV$SUF, PROCOPT=GOT, KEYLEN=35
SENSEG      NAME=PAC7TV
PCB         TYPE=DB, DBDNAME=PACDTG$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN      PSBNAME=PTAV10$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTAV20$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PSBGEN      PSBNAME=PTAV20$SUG, LANG=COBOL, CMPAT=YES
END
===SEQ
:/ ADD NAME=PTAXDT$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PSBGEN      PSBNAME=PTAXDT$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA100$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB, DBDNAME=PACDTE$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG      NAME=PAC7TE
PCB         TYPE=DB, DBDNAME=PACDTG$SUF, PROCOPT=A, KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN      PSBNAME=PTA100$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA120$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB, DBDNAME=PACDTG$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG      NAME=PAC7TG
PSBGEN      PSBNAME=PTA120$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA150$SUG
PCB         TYPE=DB, DBDNAME=PACDTD$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG      NAME=PAC7TD
PCB         TYPE=DB, DBDNAME=PACDTE$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG      NAME=PAC7TE

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PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=GOT, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG   NAME=PAC7TG
PSBGEN   PSBNAME=PTA150$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA160$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PSBGEN   PSBNAME=PTA160$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA250$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=A, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PSBGEN   PSBNAME=PTA250$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA290$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PSBGEN   PSBNAME=PTA290$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA300$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG   NAME=PAC7TG
PSBGEN   PSBNAME=PTA300$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA302$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG   NAME=PAC7TG
PSBGEN   PSBNAME=PTA302$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA310$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG   NAME=PAC7TG
PSBGEN   PSBNAME=PTA310$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA312$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=GOT, KEYLEN=22
SENSEG   NAME=PAC7TG
PSBGEN   PSBNAME=PTA312$$SUG, LANG=COBOL, CMPAT=YES
END
:/ ADD NAME=PTA320$$SUG
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=GOT, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=GOT, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=GOT, KEYLEN=35

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SENSEGEN NAME=PAC7TV
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=GOT,KEYLEN=22
SENSEGEN NAME=PAC7TG
PSBGEN PSBNAME=PTA320$$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTA350$$SUG
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=GOT,KEYLEN=21
SENSEGEN NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=GOT,KEYLEN=35
SENSEGEN NAME=PAC7TV
PSBGEN PSBNAME=PTA350$$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTA360$$SUG
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=GOT,KEYLEN=21
SENSEGEN NAME=PAC7TD
PSBGEN PSBNAME=PTA360$$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTA400$$SUG
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=GOT,KEYLEN=21
SENSEGEN NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=GOT,KEYLEN=17
SENSEGEN NAME=PAC7TE
PCB TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=GOT,KEYLEN=35
SENSEGEN NAME=PAC7TV
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=GOT,KEYLEN=22
SENSEGEN NAME=PAC7TG
PSBGEN PSBNAME=PTA400$$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=PTA420$$SUG
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=GOT,KEYLEN=21
SENSEGEN NAME=PAC7TD
PSBGEN PSBNAME=PTA420$$SUG,LANG=COBOL,CMPAT=YES
END
:/ ADD NAME=$ROOT.PLNK
PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGEN NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=G,KEYLEN=22
SENSEGEN NAME=PAC7TG
PCB TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGEN NAME=PAC7TZ
PSBGEN PSBNAME=$ROOT.PLNK,LANG=COBOL
END
:/ ADD NAME=$ROOT.P500
PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=A,KEYLEN=21
SENSEGEN NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGEN NAME=PAC7TE
PCB TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=G,KEYLEN=35
SENSEGEN NAME=PAC7TV
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=A,KEYLEN=22
SENSEGEN NAME=PAC7TG
PCB TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGEN NAME=PAC7TZ
PSBGEN PSBNAME=$ROOT.P500,LANG=COBOL
END
:/ ADD NAME=$ROOT.P501
PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGEN NAME=PAC7TZ
PSBGEN PSBNAME=$ROOT.P501,LANG=COBOL
END
:/ ADD NAME=$ROOT.P510
PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGEN NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGEN NAME=PAC7TE
PCB TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=A,KEYLEN=35
SENSEGEN NAME=PAC7TV
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=G,KEYLEN=22
SENSEGEN NAME=PAC7TG

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PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P510, LANG=COBOL
END
:/ ADD NAME=$ROOT.P512
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=G, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=G, KEYLEN=22
SENSEG   NAME=PAC7TG
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P512, LANG=COBOL
END
:/ ADD NAME=$ROOT.P520
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=G, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=G, KEYLEN=22
SENSEG   NAME=PAC7TG
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P520, LANG=COBOL
END
:/ ADD NAME=$ROOT.P522
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=G, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=A, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTG$$SUF, PROCOPT=G, KEYLEN=22
SENSEG   NAME=PAC7TG
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P522, LANG=COBOL
END
:/ ADD NAME=$ROOT.P530
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=G, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTV$$SUF, PROCOPT=G, KEYLEN=35
SENSEG   NAME=PAC7TV
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P530, LANG=COBOL
END
:/ ADD NAME=$ROOT.P540
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTD$$SUF, PROCOPT=G, KEYLEN=21
SENSEG   NAME=PAC7TD
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11
SENSEG   NAME=PAC7TZ
PSBGEN   PSBNAME=$ROOT.P540, LANG=COBOL
END
:/ ADD NAME=$ROOT.P550
PCB      TYPE=TP, MODIFY=YES
PCB      TYPE=DB, DBDNAME=PACDTE$$SUF, PROCOPT=G, KEYLEN=17
SENSEG   NAME=PAC7TE
PCB      TYPE=DB, DBDNAME=PACDTZ$$SUF, PROCOPT=A, KEYLEN=11

```

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JCL: LOADING OF PARAMETERS IN 'SY'

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```

SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P550,LANG=COBOL
END
:/ ADD NAME=$ROOT.P560
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGE      NAME=PAC7TD
PCB          TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGE      NAME=PAC7TE
PCB          TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=G,KEYLEN=35
SENSEGE      NAME=PAC7TV
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P560,LANG=COBOL
END
:/ ADD NAME=$ROOT.P570
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGE      NAME=PAC7TD
PCB          TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGE      NAME=PAC7TE
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P570,LANG=COBOL
END
:/ ADD NAME=$ROOT.P580
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGE      NAME=PAC7TD
PCB          TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGE      NAME=PAC7TE
PCB          TYPE=DB,DBDNAME=PACDTV$$SUF,PROCOPT=G,KEYLEN=35
SENSEGE      NAME=PAC7TV
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P580,LANG=COBOL
END
:/ ADD NAME=$ROOT.P590
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=G,KEYLEN=21
SENSEGE      NAME=PAC7TD
PCB          TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGE      NAME=PAC7TE
PCB          TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=A,KEYLEN=22
SENSEGE      NAME=PAC7TG
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P590,LANG=COBOL
END
:/ ADD NAME=$ROOT.P599
PCB          TYPE=TP,MODIFY=YES
PSBGEN       PSBNAME=$ROOT.P599,LANG=COBOL
END
:/ ADD NAME=$ROOT.P600
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTD$$SUF,PROCOPT=A,KEYLEN=21
SENSEGE      NAME=PAC7TD
PCB          TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEGE      NAME=PAC7TE
PCB          TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=A,KEYLEN=22
SENSEGE      NAME=PAC7TG
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P600,LANG=COBOL
END
:/ ADD NAME=$ROOT.P601
PCB          TYPE=TP,MODIFY=YES
PCB          TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEGE      NAME=PAC7TZ
PSBGEN       PSBNAME=$ROOT.P601,LANG=COBOL
END
===SEQ FOR DTM
:/ ADD NAME=$ROOT.P610

```

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JCL: LOADING OF PARAMETERS IN 'SY'

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```

PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEG NAME=PAC7TE
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=A,KEYLEN=22
SENSEG NAME=PAC7TG
PCB TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEG NAME=PAC7TZ
PSBGEN PSBNAME=$ROOT.P610,LANG=COBOL
END
:/ ADD NAME=$ROOT.P620
PCB TYPE=TP,MODIFY=YES
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=21
SENSEG NAME=PAC7TD
PCB TYPE=DB,DBDNAME=PACDTE$$SUF,PROCOPT=G,KEYLEN=17
SENSEG NAME=PAC7TE
PCB TYPE=DB,DBDNAME=PACDTG$$SUF,PROCOPT=A,KEYLEN=22
SENSEG NAME=PAC7TG
PCB TYPE=DB,DBDNAME=PACDTZ$$SUF,PROCOPT=A,KEYLEN=11
SENSEG NAME=PAC7TZ
PSBGEN PSBNAME=$ROOT.P620,LANG=COBOL
END
===SEQ
:/ ADD NAME=DF$ROOT.$FILE.AD
DELETE ($INDEX..$ROOT.$FILE.AD) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.AD) -
                SHR (2,3) RUS KEY (21,0) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (240,240) ) -
INDEX ( NAME ($INDEX..IND.$ROOT.$FILE.AD) -
        CISZ (1024) ) -
DATA ( NAME ($INDEX..DAT.$ROOT.$FILE.AD) -
        FSPC (10,5) -
        CISZ (2048) ) /*: CATALOG ($CATU) /*/
:/ ADD NAME=DF$ROOT.$FILE.AV
DELETE ($INDEX..$ROOT.$FILE.AV) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.AV) -
                SHR (2,3) RUS KEY (35,4) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (80,1100) ) -
INDEX ( NAME ($INDEX..IND.$ROOT.$FILE.AV) -
        CISZ (1024) ) -
DATA ( NAME ($INDEX..DAT.$ROOT.$FILE.AV) -
        FSPC (10,5) -
        CISZ (2048) ) /*: CATALOG ($CATU) /*/
:/ ADD NAME=DF$ROOT.$FILE.DD
DELETE ($INDEX..$ROOT.$FILE.DD) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.DD) -
                SHR (2,3) RUS KEY (21,0) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (240,240) ) -
INDEX ( NAME ($INDEX..IND.$ROOT.$FILE.DD) -
        CISZ (1024) ) -
DATA ( NAME ($INDEX..DAT.$ROOT.$FILE.DD) -
        FSPC (10,5) -
        CISZ (2048) ) /*: CATALOG ($CATU) /*/
:/ ADD NAME=DF$ROOT.$FILE.TD
DELETE ($INDEX..$ROOT.$FILE.TD) CLUSTER
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TD) -
                SHR (2,3) RUS KEY (21,6) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (248,248) ) -
INDEX ( NAME ($INDEX..IND.$ROOT.$FILE.TD) -
        CISZ (4096) ) -
DATA ( NAME ($INDEX..DAT.$ROOT.$FILE.TD) -
        FSPC (10,5) -
        CISZ (4096) ) /*: CATALOG ($CATU) /*/
:/ ADD NAME=DF$ROOT.$FILE.TS
DELETE ($INDEX..$ROOT.$FILE.TS) CLUSTER
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TS) -
                SHR (2,3) RUS KEY (21,0) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (240,240) ) -
INDEX ( NAME ($INDEX..IND.$ROOT.$FILE.TS) ) -

```

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JCL: LOADING OF PARAMETERS IN 'SY'

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```

        DATA      ( NAME ($INDEX..DAT.$ROOT.$FILE.TS) -
                    FSPC (10,5) -
                    CISZ (4096) ) /*: CATALOG ($CATU) :*/
:/ ADD NAME=DF$ROOT.$ROOT.TE
DELETE ($INDEX..$ROOT.$ROOT.TE) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$ROOT.TE) -
                SHR (2,3) RUS KEYS (17,6) -
                VOL ($VOLV) CYL (2,1) -
                RECSZ (098,098) ) -
INDEX      ( NAME ($INDEX..IND.$ROOT.$ROOT.TE) -
            CISZ (4096) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$ROOT.TE) -
            FSPC (10,5) -
            CISZ (4096) ) /*: CATALOG ($CATV) :*/
:/ ADD NAME=DF$ROOT.$FILE.TG
DELETE ($INDEX..$ROOT.$FILE.TG) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TG) -
                SHR (2,3) RUS KEYS (22,6) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (094,094) ) -
INDEX      ( NAME ($INDEX..IND.$ROOT.$FILE.TG) -
            CISZ (4096) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$FILE.TG) -
            FSPC (10,5) -
            CISZ (4096) ) /*: CATALOG ($CATU) :*/
:/ ADD NAME=DF$ROOT.$FILE.TU
DELETE ($INDEX..$ROOT.$FILE.TU) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TU) -
                SHR (2,3) RUS KEYS (35 5) -
                INDEXED -
                VOL ($VOLU) CYL (1,1) -
                RECSZ (040 040) ) -
INDEX      ( NAME ($INDEX..IND.$ROOT.$FILE.TU) -
            CISZ (1024) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$FILE.TU) -
            CISZ (1024) ) /*: CATALOG ($CATU) :*/
:/ ADD NAME=DF$ROOT.$FILE.TV
DELETE ($INDEX..$ROOT.$FILE.TV) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TV) -
                SHR (2,3) RUS -
                NONINDEXED -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (4089 4089) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$FILE.TV) -
            FSPC (10,5) -
            CISZ (4096) ) /*: CATALOG ($CATU) :*/
:/ ADD NAME=DF$ROOT.$FILE.TW
DELETE ($INDEX..$ROOT.$FILE.TW) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.TW) -
                SHR (2,3) RUS KEY (35,4) -
                VOL ($VOLU) CYL (2,1) -
                RECSZ (80,1100) ) -
INDEX      ( NAME ($INDEX..IND.$ROOT.$FILE.TW) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$FILE.TW) -
            FSPC (10,5) -
            CISZ (4096) ) /*: CATALOG ($CATU) :*/
:/ ADD NAME=DF$ROOT.$ROOT.TZ
DELETE ($INDEX..$ROOT.$ROOT.TZ) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$ROOT.TZ) -
                SHR (2,3) KEYS (11,6) -
                VOL ($VOLV) CYL (3 3) -
                RECSZ (8510 8510) RUS ) -
INDEX      ( NAME ($INDEX..IND.$ROOT.$ROOT.TZ) -
            CISZ (4096) ) -
DATA      ( NAME ($INDEX..DAT.$ROOT.$ROOT.TZ) -
            FSPC (10,5) -
            CISZ (10240) ) /*: CATALOG ($CATV) :*/
:/ ADD NAME=DF$ROOT.$FILE.T1
DELETE ($INDEX..$ROOT.$FILE.T1) CL
DEFINE CLUSTER ( NAME ($INDEX..$ROOT.$FILE.T1) -
                SHR (2,3) RUS KEYS (63 5) -
                INDEXED -
                VOL ($VOLU) CYL (1,1) -

```


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JCL: LOADING OF PARAMETERS IN 'SY'

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```

* * WARNING: THE FOLLOWING PARAMETERS OF THE MACRO-INSTRUCTIONS *
* * 'TRANSACT' CANNOT BE MODIFIED: *
* * 'CODE=' , 'SEGSIZE=' , 'MODE=' , 'SPA=' , 'SNGLSEG' (IN THE *
* * PARAMETER 'MSGTYPE=') *
* * OTHER PARAMETERS MUST BE ADJUSTED TO THE STANDARDS IN USE ON *
* * THE INSTALLATION SITE. *
* -----*
APPLCTN PSB=$ROOT.PLNK
TRANSACT CODE=$ROOT.CLNK,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P501
TRANSACT CODE=$TRANT,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P601
TRANSACT CODE=$TRANP,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P500
TRANSACT CODE=$ROOT.C500,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P510
TRANSACT CODE=$ROOT.C510,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P520
TRANSACT CODE=$ROOT.C520,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P530
TRANSACT CODE=$ROOT.C530,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P540
TRANSACT CODE=$ROOT.C540,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P550
TRANSACT CODE=$ROOT.C550,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P560
TRANSACT CODE=$ROOT.C560,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P570
TRANSACT CODE=$ROOT.C570,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P580
TRANSACT CODE=$ROOT.C580,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P590
TRANSACT CODE=$ROOT.C590,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P599
TRANSACT CODE=$ROOT.C599,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P600
TRANSACT CODE=$ROOT.C600,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
===SEQ FOR DTM
APPLCTN PSB=$ROOT.P610
TRANSACT CODE=$ROOT.C610,SEGSIZE=03500,MODE=SNGL,SEGNO=00050, $A
        PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
        MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
APPLCTN PSB=$ROOT.P620

```

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JCL: LOADING OF PARAMETERS IN 'SY'

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```
TRANSACT CODE=$ROOT.C620,SEGSIZE=03500,MODE=SNGL,SEGNO=00050,$A
      PRTY=(07,10,00002),PROCLIM=(00005,00015),EDIT=ULC,$A
      MSGTYPE=(SNGLSEG,RESPONSE,$CLS),SPA=(150,DASD)
===SEQ
*-----*
* DEFINITION OF BMP'S      -   PACTABLES 2.5      -   CONTROL REGION      *
*-----*
      APPLCTN  PSB=PTA250$SUG,PGMTYPE=BATCH
      APPLCTN  PSB=PTA300$SUG,PGMTYPE=BATCH
===SEQ
```


23.12. JCL: LOADING OF BATCH PROCEDURES

```
//$PRFJ.TPRO JOB ($CCPT), 'LOADING PROCEDURES', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//ET010 EXEC PGM=IEBUPDTE, PARM=NEW
//*****
//*          CATALOGING THE PACTABLES PROCEDURES          *
//*****
//*
//*  *-----*
//*  *          I M P O R T A N T          *
//*  *          -----*
//*  *          BEFORE EXECUTING THIS JOB, REPLACE ALL    *
//*  *          ':' WITH '.' USING AN EDITOR.              *
//*  *-----*
//*
//SYSPRINT DD SYSOUT=$OUT
//SYSUT2 DD DSN=$BIBP, DISP=SHR
//SYSIN DD DATA, DLM='%%'
:/ ADD NAME=$RADP.BVTA
//* PACTABLES 2.0 : COPY OF TD, TV DATABASES ONTO VSAM FILES
:/ ADD NAME=$RADP.PRTA
//* PACTABLES 2.0 : PRINTING OF TABLES
:/ ADD NAME=$RADP.IMTA
//* PACTABLES 2.0 : IMPORT OF TABLES
:/ ADD NAME=$RADP.EXTA
//* PACTABLES 2.0 : EXTRACTION OF TABLES
:/ ADD NAME=$RADP.GETT
//* PACTABLES 2.0 : GENERATION OF TABLES (PACTABLES SITE)
:/ ADD NAME=$RADP.INTA
//* PACTABLES 1.2 : INITIALIZATION OF PACTABLES
:/ ADD NAME=$RADP.LDTA
//* PACTABLES 2.0 : TABLE DESCRIPTION LIST
:/ ADD NAME=$RADP.LDTE
//* PACTABLES 2.0 : CREATION OF THE DL/1 ERROR-MESSAGE DATABASE
:/ ADD NAME=$RADP.LDTG
//* PACTABLES 2.0 : LOADING OF THE DL/1 USER PARAMETER DATABASE
:/ ADD NAME=$RADP.LDTZ
//* PACTABLES 2.0 : LOADING OF THE DL/1 SPA DATABASE
:/ ADD NAME=$RADP.PMTA
//* PACTABLES 2.0 : UPDATE OF USER PARAMETERS
:/ ADD NAME=$RADP.UPTA
//* PACTABLES 2.0 : TABLE UPDATE
:/ ADD NAME=$RADP.RETA
//* PACTABLES 1.2 : REORGANIZATION OF TABLES
:/ ADD NAME=$RADP.TUTA
//* PACTABLES 2.0 : DIRECT CONSULTATION OF TABLES
:/ ADD NAME=$RADP.LPTA
//* PACTABLES 2.0 : LIST OF INSTALLED PROGRAMS
:/ ADD NAME=$RADP.CDT1
//* PACTABLES 2.0 : TABLE DESCRIPTION COMPARISON
:/ ADD NAME=$RADP.CDT2
//* PACTABLES 2.0 : TABLE DESCRIPTION UPDATE
:/ ADD NAME=$RADP.CVTA
//* PACTABLES 2.0 : EXTRACTION OF MODIFIED TABLE DATA
:/ ADD NAME=$RADP.SVTA
//* PACTABLES 2.0 : TABLE DATABASE BACKUP (TD-TV-TG)
:/ ADD NAME=$RADP.RSTA
//* PACTABLES 2.0 : RELOADING-RESTORING TABLES (TD-TV-TG DB's)
:/ ADD NAME=$RADP.R3TA
//* PACTABLES 2.0 : RETREIVING 7.3 PACTABLES FILES
:/ ADD NAME=$RADP.RTTA
//* PACTABLES 2.0 : RETRIEVAL FROM PACTABLES 7.3
===SEQ
%%
//
```

23.13. JCL: LOADING OF THE DBDLIB

```
//$PRFJ.TDBD JOB ($CCPT),'DBDLIB',CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//ET010 EXEC PGM=IEBCOPY  
//*****  
//* LOADING OF DBDLIB PACTABLES 2.5 *  
//*****  
//*  
//*-----*  
//* TO BE EXECUTED ONLY IF YOUR DEVICE TYPE IS '3390' AND *  
//* THE SUFFIX OF DBD IS '22'. OTHERWISE, YOU MUST COMPILE *  
//* THE DBD SOURCES FOUND IN PDS PARAMETER FILE 'SY'. *  
//*-----*  
//*  
//SYSPRINT DD SYSOUT=$OUT  
//SYSUT3 DD UNIT=$UWK,SPACE=(TRK,5)  
//SYSUT4 DD UNIT=$UWK,SPACE=(TRK,5)  
//IND1 DD DSN=PACT.DBDLIB,DISP=OLD,UNIT=$UTAPE,LABEL=(09,SL),  
// VOL=(,RETAIN,SER=$TAPEI)  
//OUT1 DD DSN=$DBDLIB,DISP=SHR  
//SYSIN DD *  
COPY INDD=((IND1,R)),OUTDD=OUT1  
/*  
/*
```

23.14. JCL: LOADING OF THE PSBLIB

```
//$PRFJ.TPSB JOB ($CCPT), 'PSBLIB', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//ET010 EXEC PGM=IEBCOPY
//*****
//*          LOADING OF PSBLIB          PACTABLES 2.5 *
//*****
//*
//*-----*
//* TO BE EXECUTED ONLY WHEN:          *
//* - YOUR CHOSEN SYSTEM ROOT IS ....: ROOT='P2'          *
//* - THE SUFFIX OF THE DBD IS .....: SUF='22'          *
//* - THE PRECEDING SUFFIX WAS .....: SUFR='73'          *
//* - THE SUFFIX OF THE BATCH PSB IS : SUG='22'          *
//* IF ONLY ONE OF THESE REQUIREMENTS IS NOT MET, YOU MUST *
//* COMPILE THE PDS SOURCES FOUND IN THE 'SY' PDS PARAMETER *
//* FILE.          *
//*-----*
//*
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK, SPACE=(TRK,15)
//SYSUT4 DD UNIT=$UWK, SPACE=(TRK,15)
//IND1 DD DSN=FACT.PSBLIB, DISP=OLD, UNIT=$UTAPE, LABEL=(10,SL),
// VOL=(,RETAIN,SER=$TAPEI)
//OUT1 DD DSN=$PSBLIB, DISP=SHR
//SYSIN DD *
COPY INDD=((IND1,R)), OUTDD=OUT1
S M=PTABVS22
===SEQ FOR DTM
S M=PTAD0522
S M=PTAD1022
S M=PTAD2022
===SEQ
S M=PTAINI22
S M=PTAREO22
S M=PTARSV22
S M=PTARSD22
S M=PTARSG22
S M=PTASTD22
S M=PTASVV22
S M=PTASVD22
S M=PTASVG22
S M=PTAT1022
S M=PTAT1522
S M=PTAT1722
S M=PTAT1922
S M=PTAT4022
S M=PTAU8022
S M=PTAXVD22
S M=PTAXVV22
S M=PTAXVG22
===SEQ FOR DTM
S M=PTAV1022
S M=PTAV2022
===SEQ
S M=PTAXDT22
S M=PTA10022
S M=PTA12022
S M=PTA15022
S M=PTA16022
S M=PTA25022
S M=PTA29022
S M=PTA30022
S M=PTA30222
S M=PTA31022
S M=PTA31222
S M=PTA32022
S M=PTA35022
S M=PTA36022
```

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JCL: LOADING OF THE PSBLIB

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```
S M=PTA40022
S M=PTA42022
S M=P2PLNK
S M=P2P500
S M=P2P501
S M=P2P510
S M=P2P512
S M=P2P520
S M=P2P522
S M=P2P530
S M=P2P540
S M=P2P550
S M=P2P560
S M=P2P570
S M=P2P580
S M=P2P590
S M=P2P599
S M=P2P600
S M=P2P601
===SEQ FOR DTM
S M=P2P610
S M=P2P620
===SEQ
/*
/**
```

23.15. JCL: LOADING OF THE LOAD-MODULES

```
//$PRFJ.TSYS JOB ($CCPT), 'SYSTEM FILES LOAD', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//*          LOADING OF ALL PACTABLES SYSTEM FILES          *
//*****
//*****
//*          COPY OF LOAD-MODULES IN A PDS                  *
//*****
//*-----*
//*          I M P O R T A N T                               *
//*          -----                                         *
//* IT IS NOT NECESSARY TO EXECUTE THE 'ET015' AND 'ET016' *
//* STEPS IF THE ON-LINE MODULES' PREFIX CONTAINS THE     *
//* VALUE 'P2' (CHECK THE 'ROOT' PARAMETER).              *
//* IF THE PREFIX IS MODIFIED, THESE STEPS MUST BE EXECUTED.*
//* TO DO THIS, THE 'HEXA' PARAMETER MUST BE CODED WITH   *
//* THE CORRESPONDING HEXADECIMAL VALUE OF THE NEW       *
//* PREFIX.                                                 *
//* FOR INST.: IF THE NEW PREFIX IS: ROOT='AB', THE      *
//* 'HEXA' PARAMETER MUST BE CODED: HEXA='C1C2'          *
//*                                                       *
//* STEP 'ET017' APPLIES TO THE 'SEC' OPTION ONLY.        *
//* (LOADING -PACSECU8-)                                   *
//*                                                       *
//* IMPORTANT : (FOR 'SEC' VARIANT ONLY)                   *
//* IF THE ON-LINE AND BATCH PROGRAMS ARE INSTALLED IN A  *
//* COMMON LIBRARY, THE SELECTION OF USER'S PROGRAM      *
//* 'PACSECB' IN ONE OF THE TWO 'COPY' CLAUSES MUST BE   *
//* CANCELLED.                                             *
//*-----*
//ET005 EXEC PGM=IEHPROGM
//SYSPRINT DD SYSOUT=$OUT
//DD1 DD UNIT=$UNITP, VOL=SER=$VOLP, DISP=SHR
//SYSIN DD *
        UNCATLG DSN=$MODB
        SCRATCH DSN=$MODB, VOL=$UNITP=$VOLP
        UNCATLG DSN=$MODT
        SCRATCH DSN=$MODT, VOL=$UNITP=$VOLP
//*
//ET007 EXEC PGM=IEFBR14
//DDA DD DSN=$MODB, DISP=(,CATLG,DELETE), UNIT=$UNITP,
//     SPACE=(TRK,(55,10,15)), VOL=SER=$VOLP,
//     DCB=(RECFM=U, BLKSIZE=6144)
//DDB DD DSN=$MODT, DISP=(,CATLG,DELETE), UNIT=$UNITP,
//     SPACE=(TRK,(70,10,15)), VOL=SER=$VOLP,
//     DCB=(RECFM=U, BLKSIZE=6144)
//*
//ET010 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK, SPACE=(CYL,(2,1))
//OUTB DD DSN=$MODB, DISP=SHR
//OUTP DD DSN=$MODT, DISP=SHR
//INB DD DSN=PACT.MBR8, DISP=OLD, UNIT=$UTAPE, LABEL=(04,SL),
//     VOL=(,RETAIN,SER=$TAPEI)
//INT DD DSN=PACT.MTR8, DISP=OLD, UNIT=$UTAPE, LABEL=(05,SL),
//     VOL=(,RETAIN,SER=$TAPEI)
//SYSIN DD *
        COPY INDD=((INB,R)), OUTDD=OUTB
===SEQ FOR SEC
        S M=PACSECB
===SEQ
        S M=PAP820
        S M=PAP822
        S M=PAP920
        S M=PAP922
        S M=PTABVS
===SEQ FOR DTM
```

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JCL: LOADING OF THE LOAD-MODULES

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```

S M=PTAD05
S M=PTAD10
S M=PTAD20
===SEQ
S M=PTAINI
S M=PTAREO
S M=PTARSD
S M=PTARSV
S M=PTARSG
S M=PTAR20
===SEQ
S M=PTASTD
S M=PTASVV
S M=PTASVD
S M=PTASVG
S M=PTATC1
S M=PTATC2
S M=PTATCD
S M=PTATCV
S M=PTATCG
S M=PTAXVV
S M=PTAXVD
S M=PTAXVG
S M=PTAT10
S M=PTAT15
S M=PTAT17
S M=PTAT19
S M=PTATIN
S M=PTAT40
S M=PTAT45
S M=PTAT50
S M=PTAU80
===SEQ FOR DTM
S M=PTAV10
S M=PTAV20
===SEQ
S M=PTAXDT
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=PTU001
COPY INDD=( ( INT , R ) ) ,OUTDD=OUTP
===SEQ FOR SEC
S M=PACSECB
===SEQ
S M=PACXSY
S M=MVSJOB
S M=( ( ZZPLNK , $ROOT . PLNK ) )
S M=( ( ZZP500 , $ROOT . P500 ) )
S M=( ( ZZP501 , $ROOT . P501 ) )
S M=( ( ZZP510 , $ROOT . P510 ) )
S M=( ( ZZP512 , $ROOT . P512 ) )
S M=( ( ZZP520 , $ROOT . P520 ) )
S M=( ( ZZP522 , $ROOT . P522 ) )
S M=( ( ZZP530 , $ROOT . P530 ) )
S M=( ( ZZP540 , $ROOT . P540 ) )
S M=( ( ZZP550 , $ROOT . P550 ) )
S M=( ( ZZP560 , $ROOT . P560 ) )
S M=( ( ZZP570 , $ROOT . P570 ) )

```

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JCL: LOADING OF THE LOAD-MODULES

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```
S M=((ZP580,$ROOT.P580))
S M=((ZP590,$ROOT.P590))
S M=((ZP599,$ROOT.P599))
S M=((ZP600,$ROOT.P600))
S M=((ZP601,$ROOT.P601))
S M=((ZP980,$ROOT.R980))
===SEQ FOR DTM
S M=((ZP610,$ROOT.P610))
S M=((ZP620,$ROOT.P620))
===SEQ FOR TUF
S M=((ZFT00,$ROOT.FT00))
S M=((ZFT90,$ROOT.FT90))
===SEQ
/*
//ET015 EXEC PGM=IMASPZAP
//SYSPRINT DD SYSOUT=$OUT
//SYSLIB DD DSN=$MODT,DISP=SHR
NAME $ROOT.P501 P2P501
VER 0005 D7F2
REP 0005 $HEXA
VER 01FD D7F2
REP 01FD $HEXA
VER 0237 D7F2
REP 0237 $HEXA
/*
//ET016 EXEC PGM=IMASPZAP
//SYSPRINT DD SYSOUT=$OUT
//SYSLIB DD DSN=$MODT,DISP=SHR
NAME $ROOT.P601 P2P601
VER 0005 D7F2
REP 0005 $HEXA
VER 01FD D7F2
REP 01FD $HEXA
VER 0237 D7F2
REP 0237 $HEXA
/*
===SEQ FOR SEC
//ET017 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT3 DD UNIT=$UWK,SPACE=(TRK,20)
//IND1 DD DSN=PACT.MBR8,DISP=OLD,UNIT=$UTAPE,
// VOL=(,RETAIN,SER=$TAPEI),LABEL=(04,SL)
//OUT1 DD DISP=OLD,DSN=----- <-- AUTHORIZED LIBRARY
COPY INDD=((IND1,R)),OUTDD=OUT1
S M=PACSECUS
/*
===SEQ
```

23.16. JCL: LOADING OF DOCUMENTATION-ERROR MESSAGES

```
//$PRFJ.TTE JOB ($CCPT), 'LOADING TE', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
// JCLLIB ORDER=( $BIBP)
//ET010 EXEC PGM=IEHPROGM
//*****
//*
//***** SCRATCH-UNCATLG OF THE 'TE' FILE SEQUENTIAL IMAGE
//*
//SYSPRINT DD SYSOUT=$OUT
//DD1 DD UNIT=$UNITP, VOL=SER=$VOLP, DISP=SHR
SCRATCH DSNAME=$INDEXP..$ROOT.$ROOT.IN, VOL=$UNITP=$VOLP
UNCATLG DSNAME=$INDEXP..$ROOT.$ROOT.IN
//*
//ET020 EXEC PGM=IDCAMS
//*****
//*
//***** LOADING OF THE 'TE' FILE SEQUENTIAL IMAGE
//*
//*:STEPCAT DD DSN=$CATV, DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//TEI DD DSN=PAC.TE, DISP=OLD, UNIT=$UTAPE, LABEL=(06, SL),
// VOL=(, RETAIN, SER=$TAPEI)
//TEO DD DSN=$INDEXP..$ROOT.$ROOT.IN, DISP=(, CATLG, DELETE),
// VOL=SER=$VOLP, UNIT=$UNITP, SPACE=(TRK, (20, 10), RLSE),
// DCB=(RECFM=FB, LRECL=90, BLKSIZE=6030)
//SYSIN DD *
REPRO INFILE (TEI) OUTFILE (TEO)
//*
//***** LOADING OF THE 'TE' DATABASE *****
//*
//ET030 EXEC $RADP.LDTE
//*
//
```


INSTALLATION
JCL: INITIAL LOADING OF THE SPA DATABASE

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23.17. JCL: INITIAL LOADING OF THE SPA DATABASE

```
//$PRFJ.TTZ JOB ($CCPT), 'LOADING TZ', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* INITIAL LOADING OF SPA DATABASE 'TZ' *  
//* ----- *  
//* JOB TO BE RUN ONLY WHEN FIRST INSTALLING THE PACTABLES 2.5 *  
//* FUNCTION. *  
//*****  
//ET010 EXEC $RADP.LDTZ  
//*
```

23.18. JCL: INITIAL LOADING OF THE TUF-TP DATABASE

```
//$PRFJ.TTB JOB ($CCPT), 'LOADING TB', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=($BIBP)  
//*****  
//* INITIAL LOADING OF TUF-TP DATABASE 'TB'  
//* -----  
//* JOB TO BE RUN ONLY WHEN FIRST INSTALLING THE PACTABLES 2.5  
//* FUNCTION.  
//*****  
//ET010 EXEC $RADP.LDTB  
//*
```

23.19. JCL: BUILDING OF THE GENERATION-FILE INDEX

```
//$PRFJ.TTC JOB ($CCPT), 'G.D.G. TC', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* BUILDING GENERATION FILE INDEX 'TC' *
//* ----- *
//* JOB TO BE RUN ONLY WHEN FIRST INSTALLING THE PACTABLES 2.5 *
//* FUNCTION *
//* . BUILDING OF DSCB MODEL *
//* . DEFINE OF GDG *
//* . FILE INITIALIZATION (USER PARAMETER BACKUP) *
//* ->NOTE *
//* ---- *
//* IF "SMS" IS INSTALLED, DELETE //DD1 (ET020) *
//*****
//*
//ET010 EXEC PGM=IEHPROGM
//*****
//* SCRATCH-UNCATLG OF DSCB *
//*****
//SYSPRINT DD SYSOUT=$OUT
//DD1 DD UNIT=$UNITP, VOL=SER=$VOLP, DISP=SHR
//SYSIN DD *
UNCATLG DSN=$INDEXQ..DSCB.$ROOT.$FILE.TC
SCRATCH DSN=$INDEXQ..DSCB.$ROOT.$FILE.TC, VOL=$UNITP=$VOLP
//*
//ET015 EXEC PGM=IEFBR14
//DDA DD DSN=$INDEXQ..DSCB.$ROOT.$FILE.TC, DISP=(,CATLG,DELETE),
// SPACE=(TRK,(0)), VOL=SER=$VOLP, UNIT=$UNITP,
// DCB=(RECFM=VB, LRECL=1067, BLKSIZE=10674)
//*****
//* BUILDING GENERATION FILES INDEX *
//*****
//ET020 EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=$CATV, DISP=SHR
//*: DD DSN=$CATU, DISP=SHR
//DD1 DD DSN=$INDEXQ..$ROOT.$FILE.TC, DISP=(,CATLG,DELETE),
// UNIT=$UNITO, VOL=SER=$VOLO, SPACE=(TRK,0),
// DCB=$INDEXQ..DSCB.$ROOT.$FILE.TC
//SYSIN DD DSN=$INDEXP..$ROOT.$ROOT.SY(BL$ROOT.$FILE.TC), DISP=SHR
//SYSPRINT DD SYSOUT=$OUT
//*
//ET040 EXEC PGM=IEBGENER
//*****
//* LOADING TC *
//*****
//SYSIN DD DUMMY
//SYSPRINT DD SYSOUT=$OUT
//SYSUT1 DD DSN=PAC.TCENG, DISP=OLD, UNIT=$UTAPE, LABEL=(08,SL),
// VOL=(,RETAIN,SER=$TAPEI)
//SYSUT2 DD DSN=$INDEXQ..$ROOT.$FILE.TC(+1), DISP=(,CATLG,DELETE),
// VOL=SER=$VOLO, SPACE=(TRK,(1,1),RLSE), UNIT=$UNITO,
// DCB=$INDEXQ..DSCB.$ROOT.$FILE.TC
//*
```

23.20. JCL: LOADING OF THE TEST FILES

```
//$PRFJ.TTAB JOB ($CCPT), 'TABLES TEST FILES', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
// JCLLIB ORDER=( $BIBP )  
//*****  
//*          LOADING PACTABLES FUNCTION'S TEST FILES          *  
//*****  
//*  
//ET010 EXEC $RADP.RSTA  
//
```

23.21. JCL: COMPILATION OF ACBs

```
//$PRFJ.TACB JOB ($CCPT), 'ACBGEN', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//ET010 EXEC ACBGEN, SOUT=$OUT, PSB='$PSBLIB',
// DBD='$DBDLIB', ACB='$ACBLIB'
//*****
//* COMPILATION OF ACB'S PACTABLES *
//*****
//*-----*
//* THIS JOB MUST BE EXECUTED AFTER LOADING DBDLIB AND *
//* PSBLIB (EITHER BY LOADING OF OBJECT MODULES OR BY *
//* COMPILATION OF DBD AND PSB). *
//*-----*
//*
//G.SYSIN DD *
BUILD DBD=(PACDTE$SUF, PACDTG$SUF)
BUILD DBD=(PACDTU$SUF, PACDTV$SUF, PACDTZ$SUF)
BUILD DBD=(PACDT1$SUF, PACDTB$SUF)
BUILD PSB=($ROOT.P500, $ROOT.P501, $ROOT.P510, $ROOT.P520)
BUILD PSB=($ROOT.P530, $ROOT.P540, $ROOT.P550, $ROOT.P560)
BUILD PSB=($ROOT.P570, $ROOT.P580, $ROOT.P590, $ROOT.P599)
BUILD PSB=($ROOT.P600, $ROOT.P601, $ROOT.PLNK)
BUILD PSB=(PTA250$SUG, PTA300$SUG)
===SEQ FOR DTM
BUILD PSB=($ROOT.P610, $ROOT.P620)
===SEQ
/*
//*
//
```

23.22. JCL: LOADING OF THE TUF-TP MACRO-STRUCTURES

```
//$PRFJ.TCTF JOB ($CCPT), 'MBR8 MTR8 PDS', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* ALLOCATION AND LOADING OF THE LIBRARY WHICH WILL CONTAINS
//* THE MACROSTRUCTURES FOR TUF/TP (BATCH TRANSACTION FOR
//* VISUALAGE PACBASE UPDT PROCEDURE)
//* .STEP1 : SCRATCH UNCATLG
//* .STEP2 : ALLOCATION
//* .STEP3 : LOADING OF THE MACROSTRUCTURES
//*****
//*
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=$OUT
//SYSIN DD *
DELETE ($MACT)
//*
//STEP2 EXEC PGM=IEFBR14
//MACT DD DSN=$MACT,
// DISP=(,CATLG,DELETE), UNIT=$UNITO,
// VOL=SER=$VLO,
// SPACE=(6144,(20,2,2)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=32000)
//*
//STEP3 EXEC PGM=IEBCOPY
//***** CHARGEMENT DES MACROS-STRUCTURES *****
//SYSPRINT DD SYSOUT=$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=(11,SL),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=32000)
//SYSIN DD *
C I=((INM,R)),O=OUTM
S M=((FAATUFA,AATUFA))
S M=((FAATUFL,AATUFL))
S M=((FAATUFS,AATUFS))
S M=((FAATUFX,AATUFX))
/*
```

23.23. 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 below).

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.

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LIST OF INSTALLED PROGRAMS

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```

//*****
//* PACTABLES 2.5
//*          LIST OF INSTALLED PROGRAMS
//*****
//$RADP.LPTA PROC FILE=$FILE,    PHYSICAL-DATABASE NUMBER
//          ROOT=$ROOT,        ROOT OF VA PAC SYSTEM
//          INDEX='$INDEX',    VSAM-FILE INDEX
//          INDEXP='$INDEXP',  INDEX OF NON-VSAM FILES
//*:       SYSTCAT='$CATV',    VSAM SYSTEM CATALOG
//          OUT='$OUT',        OUTPUT CLASS
//          OUTL='$OUTL',      OUTPUT CLASS
//          MODB='$MODB',      LIBRARY OF BATCH LOAD-MODULES
//          MODT='$MODT',      LIBRARY OF ON LINE LOAD-MODULES
//          UWK=$UWK,         WORK UNIT
//          PSBLIB='$PSBLIB',  LIBRARY OF PSB'S
//          DBDLIB='$DBDLIB',  LIBRARY OF DBD'S
//          RESLIB='$RESLIB',  IMS RESLIB
//          PROCLIB='$PRCLIB', IMS PROCLIB
//          BUF=40,SPIE=0,TEST=0,EXCPVR=0,RST=0,PRLD=,SRCH=0,
//          CKPTID=,MON=N,LOGA=0,FMTO=T,DBRC=$DBRC,IRLM=$IRLM
//*****
//* INPUT :
//* - IF A LIST OF ALL PROGRAMS IS NEEDED: ONE LINE WITH THE ROOT
//*   OF THE PACTABLES SYSTEM (COL.3 LENGTH 2)
//* - SELECTION OF PROGRAMS IS NEEDED:
//*   ONE LINE PER PROGRAM: PROGRAM CODE (COL.3 LENGTH 6)
//*****
//INPUT EXEC PGM=PTU001
//STEPLIB DD DSN=&MODB,DISP=SHR
//CARTE DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB DD DSN=&&LPTAMB,DISP=(,PASS),
//          UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
//*
//VERIFY EXEC PGM=IDCAMS
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//DDTD DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//SYSIN DD DSN=&INDEXP..&ROOT.&ROOT.SY(VERIFTD),DISP=SHR
//*
//PACXDT EXEC PGM=DFSRR00,REGION=$REGSIZ,
//          PARM=(DLI,PTAXDT,PTAXDT$SUG,&BUF,
//          &SPIE&TEST&EXCPVR&RST,&PRLD,
//          &SRCH,&CKPTID,&MON,&LOGA,&FMTO,,,&DBRC,&IRLM)
//STEPLIB DD DSN=&RESLIB,DISP=SHR
//          DD DSN=&MODB,DISP=SHR
//          DD DSN=&MODT,DISP=SHR
//DFSRESLB DD DSN=&RESLIB,DISP=SHR
//IMS DD DSN=&PSBLIB,DISP=SHR
//          DD DSN=&DBDLIB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//SYSOUT DD SYSOUT=&OUT
//SYSOUX DD SYSOUT=&OUT
//DDSNAP DD SYSOUT=&OUT
//PROCLIB DD DSN=&PROCLIB,DISP=SHR
//IEFRDER DD DUMMY,
//          DCB=(RECFM=VB,BLKSIZE=1920,LRECL=1916,BUFNO=2)
//SYSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSUDUMP DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,
//          BLKSIZE=605),SPACE=(605,(500,500),RLSE,,ROUND)
//IMSMON DD DUMMY
//DFSVSAMP DD DSN=&INDEXP..&ROOT.&ROOT.SY(DFSVSAM8),DISP=SHR
//PAC7TD$SUF DD DSN=&INDEX..&ROOT.&FILE.TD,DISP=SHR
//PAC7MB DD DSN=&&LPTAMB,DISP=(OLD,DELETE)
//PAC7DS DD SYSOUT=&OUTL
//*

```


INSTALLATION
LIST OF INSTALLED PROGRAMS

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

23.24. USE TESTS

USE TESTS

The tests contain the following steps:

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

The test case contains 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. PTA430)
- . 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 with VA Pac (GETA or GETD).
- . Execute GETT.
- . Verify the execution.
- . Re-open the files and perform some verification tests.

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TEST JCL: INTA

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23.25. TEST JCL: INTA

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

INSTALLATION
TEST JCL: GETT

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23.26. TEST JCL: GETT

```
//$PRFJ.GETT JOB ($CCPT), 'GENERATION', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* Pactables 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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23.27. TEST JCL: PRTA

```
//$PRFJ.PRTA JOB ($CCPT), 'PRINT', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* Pactables 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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23.28. TEST JCL: IMTA

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

23.29. TEST JCL: UPTA

```
//$PRFJ.UPTA JOB ($CCPT), 'UPDATE', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* Pactables 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
```


23.30. TEST JCL: SVTA

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

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TEST JCL: RSTA

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23.31. TEST JCL: RSTA

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

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TEST JCL: RETA

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23.32. TEST JCL: RETA

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

23.33. TEST JCL: PMTA

```
//$PRFJ.PMTA JOB ($CCPT), 'PARAM.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* Pactables 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
```

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TEST JCL: EXTA

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23.34. TEST JCL: EXTA

```
//$PRFJ.EXTA JOB ($CCPT), 'EXTRACTION', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* Pactables 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
```

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TEST JCL: TUTA

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23.35. TEST JCL: TUTA

```
//$PRFJ.TUTA JOB ($CCPT), 'EXPLOI.', CLASS=$CLASSJ,  
// MSGCLASS=$MSGCL  
//*****  
//* Pactables 2.5 *  
//*****  
//* --- TEST OF THE TUTA PROCEDURE --- *  
//*****  
// JCLLIB ORDER=( $BIBP )  
//TUTA EXEC $RADP.TUTA  
*****SUPER  
ACUSTOM10311985  
ATEMPER
```

23.36. TEST JCL: CDT1 (DTM)

```
//$PRFJ.CDT1 JOB ($CCPT), 'EXPLOI.', CLASS=$CLASSJ,
// MSGCLASS=$MSGCL
//*****
//* Pactables 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
/*
```

23.37. TEST JCL: CDT2 (DTM)

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


INSTALLATION
TEST JCL: CVTA (DTM)

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23.38. TEST JCL: CVTA (DTM)

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

23.39. PACTABLES STANDARD REINSTALLATION

STANDARD REINSTALLATION OF THE SYSTEM

Pactables must be re-installed when a new version of the software comes out following corrections and enhancements.

This new version, identified by a number is made of:

A sub-release, identified by a number is composed of:

- . the product installation cartridge (or tape),
- . the list of the corrected abends,
- . additional instructions that might be included to complete the reinstallation steps described in this Subchapter. 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 the 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 JCL (INST.JCL, (1,SL)).

2. RETRIEVAL OF INSTALLATION JCL

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

NOTE: If the JCL modules required for the installation have been 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 are added the JCL module selection lines that follow:

Add in the SYSIN the following JCL module selection lines:

```
===SELM PACTSYS  
===SELM PACTTE
```

ADDITIONAL selection lines may 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-)installation, the reinstallation is carried out through the jobs described below.

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

\$prfj.TSYS job (===MOD PACTSYS)

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

. execution of the complete job : In this case, programs stored in the library which do not directly come 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.TTE job (===MOD PACTTE)