Release 1230
Service Request 3087
VSAM/DB2 Control Table Conversion
Test Plan

Document Number test.doc

03/08/99
Steve Smith

Information Systems & Computing
Office of the President
University of California
Testing Overview

This release used regression testing to verify the correctness of the modifications made to the programs involved. Output from the Base Payroll System after installing this release essentially remains functionally the same as prior to the release. The message text for the new severity levels, and the return codes issued for these new severities are the two areas in which the output from the Base Payroll System changes after this release is installed, along with the use of DB2 Control Tables in place of the VSAM Control Tables.

Below is a discussion of the modifications and regression testing for each executable job involved in this release. Reference to output data is by DD Name.

Batch Regression Testing

PPI730

Modifications involved the called program PPPBLS. No changes were made directly to PPI730.

Obsolete calls to PPIOCTL were removed.

Regression test to verify BLS790S output.

PPP001

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PRNTFIL output.

PPP002

Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. Access to the PPPJGT DB2 Control Table replaces VSAM access. DB2 is new to this program.

Regression test to verify PRINTFIL output.

PPP010

Called module PPCB02 was modified in addition to PPP010.

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.

Regression test to verify CONTROL/CONTROLR, CRESTORE, PRNTFIL, and PPP0198 output.
PPP123

Modifications involved the called program PPEDTERR. No changes were made directly to PPP123.

Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. New severity levels are used. Access to the PPPDET DB2 Control Table replaces VSAM access.

Regression test to verify ERROR and PRNTFIL output.

PPP124

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPHME DB2 Control Table replaces VSAM access.

Regression test to verify NRAMTHY, NRAYRLY, and ERRRPT output.

PPP125

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PPP1251, PPP1252 PPP1254, PPP1255 output.

PPP126

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPHME DB2 Control Table replaces VSAM access.

Regression test to verify ERRRPT, STATRPT output.

PPP127

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPHME DB2 Control Table replaces VSAM access.

Regression test to verify ERRRPT, NRASTARP output.

PPP135

Message utility calls to PPMSSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify CARROUT, RPT, WRNPRT output.
PPP150

Called module User15 was modified in addition to PPP150.

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify CONTROL/CONTROLR, WRNPRT output.

PPP170

Called module User17 was modified in addition to PPP170.

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPDET and PPRDRT DB2 Control Tables replaces VSAM access.

Regression test to verify PRNTFIL, PRINT2, PRINT3, PRINT4 output.

PPP180

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Utility PPDETUTL replaces calls to PPIOCTL to access the VSAM Data Element Control Table.

Regression test to verify NEWHIRE, PRNTFIL, WRNPRT output.

PPP250

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Access to the PPPGTN DB2 Control Table replaces VSAM access.

Regression test to verify FCHEFIL, PRNTFIL, WRNPRT output.

PPP270

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PRINTFIL output.

PPP305

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. Access to the PPPHME DB2 Control Table replaces VSAM access.
Regression test to verify TIMERP01, TIMERP02, PRNTFIL output.

**PPP310**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.
Regression test to verify PPP3101, PPP3102, SPMGFL output.

**PPP350**
Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.
Regression test to verify PAYACTIV, TIMEOUT, RPTFIL, PPP3505, PRNTFIL output.

**PPP360**
Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. Access to the PPPGTN and PPPCCR DB2 Control Tables replaces VSAM access.
Regression test to verify RPTFIL, PRINT2, PRNTFIL output.

**PPP370**
Obsolete calls to PPIOCTL were removed.
Regression test to verify PRNTFIL output.

**PPP380**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.
Regression test to verify CPA, RPTFIL, PPP3805, PRNTFIL output.

**PPP390**
As well as PPP390, the following called modules were modified.

<table>
<thead>
<tr>
<th>PGRSAUP</th>
<th>PGRSFIN</th>
<th>PGRSRP5</th>
<th>PPLVHRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGRSCBD</td>
<td>PGRSLVE</td>
<td>PGRSRP6</td>
<td></td>
</tr>
<tr>
<td>PGRSCOH</td>
<td>PGRSPAR</td>
<td>PGRSRVW</td>
<td></td>
</tr>
</tbody>
</table>
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. Bargaining unit utility calls to PPBUTUT2 replace calls to PPBUTUTL. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Access to the PPPHME and PPPCCR DB2 Control Tables replaces VSAM access.

Regression test to verify PRINTLV, EDBCHG, PRELMPAR COM3940, PRNTFIL1, PRNTFIL2, PRNTFIL3, PRNTFIL4, PRNTFIL5, PRNTFIL9 output.

PPP400

As well as PPP400, the called module PPFEDUTL was modified.

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Tax table load utility calls to PPFEDUTL and PPSTEUTL replace VSAM access. Access to the PPPBRG, PPEIC, PPPGTN, and PPPPRM DB2 Control Tables replaces VSAM access.

Regression test to verify PAYAUDIT, EDBCHG, WRNPRT, PRNTFIL output.

PPP410

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Access to the PPPGTN DB2 Control Table replaces VSAM access.

Regression test to verify EDBCHG, WRNPRT, PRNTFIL output.

PPP420

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Access to the PPPCCR, PPPGTN, PPPHME, and PPPSPB DB2 Control Tables replaces VSAM access.

Regression test to verify ADVICE, CHECKS, WRNPRT, RPTFIL, RECON, DISBWORK output.

PPP435

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.
Regression test to verify PPP4352, WRNPRT output.

**PPP460**
Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.
Regression test to verify PAYMERG, WRNPRT, PRNTFIL, CTLRCDS output.

**PPP465**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.
Regression test to verify PPP4651, PPP4652 output.

**PPP500**
Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Access to the PPPGTN DB2 Control Table replaces VSAM access.
Regression test to verify CONBEN, LEDCNTL PRINTFIL, WRNPRT output.

**PPP520**
As well as PPP520, the called modules PPBENBRR and PPLVASM were modified.
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Parameter utility calls to PPRRMUT2 replace calls to PPRRMUTL. Access to the PPPBRR DB2 Control Table replaces VSAM access.
Regression test to verify EXPDIST, PRNTFIL output.

**PPP530**
Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Parameter utility calls to PPRRMUT2 replace calls to PPRRMUTL. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL. Access to the PPPCCR DB2 Control Table replaces VSAM access.
Regression test to verify GLTXN, RVRSLOT, TOEUPDT, PPP5301, PPP5302, PPP5304, P5302FL, REPTFLE WRNPRT output.

**PPP535**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.
Regression test to verify PPP5351, PPP5352, PPP5353 output.

**PPP540**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMULT.

Regression test to verify PPP5401 output.

**PPP580**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMULT.

Regression test to verify OFEDRSRV, OREPORT1, OREPORT2, OREPORT3, OREPORT4, OREPORT5 output.

**PPP590**

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMULT. Access to the PPPGTN DB2 Control Table replaces VSAM access.

Regression test to verify PRINT1, PRINT2, WRNPRT output.

**PPP591**

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify PPP5911, PPP5912, WRNPRT output.

**PPP627**

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. Access to the PPPHME DB2 Control Table replaces VSAM access.

Regression test to verify PPP6271, WRNPRT output.

**PPP630**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPCCR DB2 Control Table replaces VSAM access.
Regression test to verify PRNTFIL, PRINT2 output.

**PPP660**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.

Regression test to verify XLIFERPT output.

**PPP690**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Access to the PPPCCR and PPPHME DB2 Control Tables replaces VSAM access.

Regression test to verify TRANFILE, ADDRFILE, PPP6901, PPP6902, PPP6903, PPP6904, PPP6905, PPP6906 output.

**PPP700**

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify COSTDBAF, PRNTFIL output.

**PPP710**

Message utility calls to PPMSSG2 replace calls to PPMSSG and calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL.

Regression test to verify NEWACTIV, PRNTFIL, output.

**PPP741**

In addition to PPP741, the following modules called by PPP741 were modified.

```
PPBRAHST  PPBRLHST  PPBUGHST  PDOSHST  PPLRTHST
PPBREHST  PPBRRHST  PPBULHST  PGTNHST  PPLUCHST
PPBRGHST  PPBUBHST  PPBUSHT  PHMEHST  PRPRMHST
PPBRJHST  PPBUDHST  PPBUTHST  PPLRRHST  PPTTLHST
```

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.
Regression test to verify WRNPRT output.

**PPP742**

In addition to PPP742, the following modules called by PPP742 were modified.

```
PPAPNHST  PPBKGHST  PPHDPHST  PPLEVHST  PPSVCHST
PPATNHST  PPCBGHST  PPHNRHST  PPLICHST
PPAWDHST  PPDSTHST  PPIDXHST  PPOFFHST
PPBASHST  PPBNHNHST  PPLCRHST  PPSABHST
```

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify WRNPRT output.

**PPP743**

In addition to PPP743, the following modules called by PPP743 were modified.

```
PPAPNHST  PPBKGHST  PPHBNHST  PPLCRHST  PPOFFHST  PPYRLHST
PPATNHST  PPCBGHST  PPHDPHST  PPLEVHST  PPQTRHST
PPAWDHST  PPDSTHST  PPHNRHST  PPLICHST  PPSABHST
PPBASHST  PPFSCHST  PPHSTPRG  PMTHHST  PPSVCHST
```

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify WRNPRT output.

**PPP744**

In addition to PPP744, the following modules called by PPP744 were modified.

```
PPAPNHST  PPBKGHST  PPHNRHST  PPLICHST
PPATNHST  PPCBGHST  PPIDXHST  PPPOFFHST
PPAWDHST  PPDSTHST  PPLCRHST  PPSABHST
PPBASHST  PPBNHNHST  PPLEVHST  PPSVCHST
```

Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify WRNPRT output.

**PPP760**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Bargaining unit utility calls to PPBUTUT2 replace calls to PPBUTUTL. Access to the PPPCCR and PPHME DB2 Control Tables replaces VSAM access.

Regression test to verify TRNS6000, PRNTFIL output.

PPP765

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Bargaining unit utility calls to PPBUTUT2 replace calls to PPBUTUTL. Access to the PPPBUT and PPHME DB2 Control Tables replaces VSAM access.

Regression test to verify PRNTFIL output.

PPP785

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PPP7851, PPP7852 output.

PPP800

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify CCCRPT1, CCCRPT2, EMPLOYEE, ERRRPT output.

PPP851

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify REPORT output.

PPP900

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PRNTFL1, PRNTFL2, PRNTFL3, PAYRTFLO output.

PPP920

Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. DOS utility calls to PPDOSUT2 replace calls to PPDOSUTL.
Regression test to verify TIMEOUT, PPP9201, PPP9202 output.

**PPP970**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.

Regression test to verify TRANOUT, PPP9701, PPP9702, PPP9703 output.

**PPP990**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used.

Regression test to verify PPP9901, PPP9915 output.

**PPRCABEY**
Message utility calls to PPMSGUT2 replace calls to PPMSGUTL. New severity levels are used.

Regression test to verify WRNPRT output.

**PPRCVNDR**
Message utility calls to PPMSSG2 replace calls to PPMSSG. New severity levels are used. Parameter utility calls to PPPRMUT2 replace calls to PPPRMUTL.

Regression test to verify VNDRFL, RPT001, RPT002, WRNPRT output.

**End of Batch Testing**

**Online Regression Testing**

**PPOROVPY**
This program calls the dual use module PPFEDUTL, which loads the DB2 Federal Tax Tables.

One statement was *added* to PPOROVPY to initialize the FEDERAL-TAX-AREA into which PPFEDUTL loads the DB2 Federal Tax Tables, and, one statement was *removed* from PPFEDUTL to eliminate the initialization of the
FEDERAL-TAX-AREA. This was done to allow program PPP400 to use PPFEDUTL and standardize the loading of the Federal Tax Tables in both online and batch programs.

PPOROVPY is executed when the OVPY function is invoked from the Special Processes sub-menu from the Payroll Online Applications Main Menu.

Completing an OVPY online transaction containing a Federal Tax deduction with before and after versions of PPOROVPY and PPFEDUTL will provide comparison data for regression test verification.

**PPRCOPT1**

This program calls the dual use module PPFEDUTL, which loads the DB2 Federal Tax Tables.

One statement was added to PPRCOPT1 to initialize the FEDERAL-TAX-AREA into which PPFEDUTL loads the DB2 Federal Tax Tables, and, one statement was removed from PPFEDUTL to eliminate the initialization of the FEDERAL-TAX-AREA. This was done to allow program PPP400 to use PPFEDUTL and standardize the loading of the Federal Tax Tables in both online and batch programs.

PPRCOPT1 is executed when the RC10/RC11 functions are invoked from the Special Processes sub-menu from the Payroll Online Applications Main Menu.

Completing an RC10/RC11 online transaction with before and after versions of PPRCOPT1 and PPFEDUTL will provide comparison data for regression test verification.

**PPRCOPT2**

This program calls the dual use module PPFEDUTL, which loads the DB2 Federal Tax Tables.

One statement was added to PPRCOPT2 to initialize the FEDERAL-TAX-AREA into which PPFEDUTL loads the DB2 Federal Tax Tables, and, one statement was removed from PPFEDUTL to eliminate the initialization of the FEDERAL-TAX-AREA. This was done to allow program PPP400 to use PPFEDUTL and standardize the loading of the Federal Tax Tables in both online and batch programs.

PPRCOPT2 is executed when the RC20/RC21 functions are invoked from the Special Processes sub-menu from the Payroll Online Applications Main Menu.

Completing an RC20/RC21 online transaction with before and after versions of PPRCOPT1 and PPFEDUTL will provide comparison data for regression test verification.

**End of Online Testing**