INSTALLATION INSTRUCTIONS

RELEASE 1077

August 2, 1996 (revised)

Information Systems & Computing
Office of the President
University of California
Installation Sequence

Installation of this release requires the following steps.

1. Establish 2 new CTL tables, PPPIAP and PPPART, using RC/MIGRATOR. The RC/Migrator strategy ANALYSIS(CTL1077U) can be used to perform the DB2 structure changes, or the environment may be updated using the DDL members which are also provided. In any event, the provided DDL members should be installed into production so that they will be available if needed. You should also be aware that the strategy does not provide for local changes to referenced objects.

   If you do not wish to use the RC/Migrator strategy, skip this step and continue with step 2.

   a. Modify strategy member CTL1077U by replacing "*AUTHID*" with the appropriate campus value, and replacing "PPPCTL" with the name of the actual database to be updated.

   b. Use RC/Migrator to execute the strategy.

   c. Skip step 2 and continue with step 3.

2. Define the new CTL tables, PPPART and PPPIAP.

   a. Replace "*AUTHID*" with the appropriate campus value in the following DDL members:

      1) PPPVZART
      2) PPPVZIAP.

   b. Replace 'PPPCTL' with the name of the database to be updated in the following DDL members:

      1) TSART00C
      2) TBART00C
      3) TSIAP00C
      4) TBIAP00C.

   c. Execute the following DDL members in the order shown:

      1) TSART00C
      2) TBART00C
      3) IXART00C
      4) PPPVZART
      5) TSIAP00C
6) TBIAP00C
7) IXIAP00C
8) PPPVZIAP.

3. Install the new INCLUDE members:

a. PPPVZART
b. PPPVZIAP

4. Copylib Member Installation

a. Modify the following Copymembers:

   CPLNKCNT
   CPWSDOSC
   CPWSXCNT
   CPWSXEDR
   CPWSXICE.

b. Install the following new Copymembers:

   CPLNKIAP.

c. Campus Specific: Install the following modified Copymember:

   CPWSXIC5.

Copymember CPWSXIC5 is a campus specific copymember currently reflecting values and decisions made by your campus (note that all copymembers may have local values, review is prudent). Do not overlay your local campus values with the release version. Instead, install the release changes into your local version and verify that the provided values for new fields are appropriate for your campus, modifying them if necessary.

5. COBOL Program Installation

NOTE: At UCOP, all COBOL programs pass through the DB2 pre-compiler, whether or not the program contains embedded SQL, to resolve INCLUDE references. Your site may have different requirements.
"DUAL" programs must be compiled twice and linked into both batch and online libraries ("LOADLIB" and "OLOADLIB", respectively). "DUAL-ONLINE" must be compiled once and linked into OLOADLIB only. "DUAL-BATCH" must be compiled once and linked into LOADLIB only. "CICS" programs must be CICS pre-compiled, DB2 pre-compiled, and compiled once into OLOADLIB. "BATCH" programs must be compiled once and linked into the batch LOADLIB only.

a. Install, compile, and link the NEW programs listed below:

<table>
<thead>
<tr>
<th>PROGRAM:</th>
<th>DB2 Pre-Compile</th>
<th>Compile</th>
<th>Bind</th>
<th>Done?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPCTRLR42</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTRLR43</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTLU42</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTLU43</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPIAPUTL</td>
<td>YES</td>
<td>DUAL-BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPP533</td>
<td>YES</td>
<td>BATCH</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

Note that no online use is currently defined for PPIAPUTL so no DB2 package bind is provided in this release.

b. Install, compile, and link the MODIFIED programs listed below:

<table>
<thead>
<tr>
<th>PROGRAM:</th>
<th>DB2 Pre-Compile</th>
<th>Compile</th>
<th>Bind</th>
<th>Done?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPARWRUPD</td>
<td>YES</td>
<td>DUAL</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTRLR38</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTRLR39</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTLU38</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPCTLU39</td>
<td>YES</td>
<td>BATCH</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PPP006</td>
<td>YES</td>
<td>BATCH</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>PPP390</td>
<td>YES</td>
<td>BATCH</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
Note that a Package Bind exists for program PPAWRUD. This is unnecessary (PPAWRUPD does not contain Procedure Division SQL); no current base bind statements reference this package. As of this release, the Bind Package for PPAWRUDP is made OBsolete.

c. Install, compile, and link the UNMODIFIED programs listed below:

<table>
<thead>
<tr>
<th>PROGRAM:</th>
<th>DB2 Pre-Compile</th>
<th>Compile</th>
<th>Bind</th>
<th>Done?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPEDBUPD</td>
<td>NO</td>
<td>DUAL</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>

6. Install the following modified Bind members:

   PPP006
   PPP410
   PPP520.

7. Install the following new Bind member:

   PPP533.

8. Bind the following plans:

   PPP006
   PPP390
   PPP410
   PPP520
   PPP533.

9. Execute and verify the separate Test Plan, per supplied instructions.

10. Perform any desired additional campus testing.

11. Modify all existing production JCL Procedures which execute program PPP006 as per the following (Test Plan JCL, RUN006, can be used as a sample):

   a. Add a Data Definition (DD) statement for each of the following 2 new reports (SYSOUT):
1) PPP0064
2) PPP0065.

b. Remove references to the VSAM Control File (DB2 access to the CTL will now provide Control Table functions).

c. Program PPP006 will now utilize enhanced message severities. Therefore, any JCL procedures which execute programs conditionally based on the Return Code issued by PPP006 must be modified. That is, JCL steps which are prevented from executing based upon a Return Code value of "5", issued by PPP006, must be modified to prevent execution when the Return Code is "8 " or higher.

12. Create production JCL for program PPP533. This program is run after the Expense Distribution process in order to report monthly IAP assessment and payment activity as well as cumulative IAP balances. The Expense Distribution Workfile (EDW) created by PPP520 is used as input to this process and reflects activity for the current process month. The IAP Balance File, a sequential file of cumulative balances, is created by PPP533 and will be used as input for the next monthly program run. During the first production month, the input IAP Balance File should be a null file. From that point on, the output IAP Balance File of each run should be the INPUT to the next sequential run. Note that Month 13 runs are no exception; that is, when a Month 13 Ledger run is made, PPP533 should also be run (using the output IAP balance from the Month 12 run of PPP533 as input. Note that on Month 01 (i.e., July), PPP533 will NOT open nor read the input IAP Balance File (so it does not need to be "dummy"ed out on Month 01 runs of PPP533).

Note that PPP533 uses enhanced Message Severity values.

13. Add the following new CTL tables to the appropriate DB2 utility JCL (loads, unloads, etc.):

a. PPPART
b. PPPIAP.

14. Update the production Control Tables:

a. Run PPP010 to apply the following table updates to the VSAM Control File:

1) System Parameter Table. Either key from the provided UPAY559 form or use the transactions in CARDLIB(PR).
2) System Message Table. Either key from the provided UPAY554 facsimile or use the transactions in CARDLIB(MSG).

3) Description of Service Table. Either key from the provided UPAY650 form or use the transactions in CARDLIB(DOS). Note that in either case, the DOS Sequence Number may be adjusted if a specific local DOS sequence is desired. Also note that IAP payment DOS "IAP" is identified for this update; if a different DOS(s) is specified, the values must correspond to "88" level value contained in copymember CPWSDOSC.

4) Fund Range Table. Either key from the provided UPAY866 form or use the transactions in CARDLIB(FND). Note that these entries control the Fund Ranges maintained for IAP balances in program PPP533. The Fund Range groups as issued with this release may need adjustment to fit local needs; therefore, the issued Fund Range groupings should be discussed with the functional areas responsible for the administration of the IAP benefit. Note the PPP533 usage of these values (specified by the Fund Range Group ID value "IAPBALNC") does not require an all inclusive range of 00001 through 99999 (nor should one be entered); PPP533 contains logic which forces all Fund Numbers not accounted for in other ranges to be placed in an "ALL OTHER" Funds reporting category.

Note that it is not advisable to modify Fund Group values for the IAP Balance function other than on initial installation or after the last Month I3 Expense Process (including PPP533) for the year has been run.

b. Run PPP851 to update the DB2 CTL with the Control Table updates applied to the VSAM Control File in the previous step.

c. Run PPP006 to update the DB2 CTL with the following Control Table transactions:

1) Assessment Rate Table (PPPART). Either key from the provided UPAY870 form or use the transactions in CARDLIB(ART).
2) Incentive Award Program (PPPIAP) table. Either key from the provided UPAY869 form or use the transactions in CARDLIB(IAP).

3) Code Translation Table (PPPCTT) table. Either key from the provided UPAY814 contained on the PAY-L note sent on 8/2/96 or use the transaction in CARDLIB (CTT).

15. CICS HELP

   a. Import new CICS HELP screen data from HELPDDSE (Refer to sample JCL in JCL(LOADDDSE) ). Note that this HELP modification is applicable the Award Type value descriptions contained on the EAWD screen. The following Award Type was added to the description: IAP.

16. Obsolete Items

   As of the installation of this release, the Bind Package for PPAWRUPD (and associated DBRM) is obsolete and should be handled per campus procedures for obsoleted base Payroll/Personnel System objects.

17. Place modified and new objects in production.