This release addresses the following error report:

**Error Report 1911**

The San Francisco campus reported that several programs using headers specified by copymember CPWSPSHR had experienced a page number overflow when report(s) produced exceeded 9,999 pages. This problem is the result of the standard page number field in CPWSPSHR being limited to only four-digit numbers.

**Copymembers**

**CPWSPSHR**

The copymember has been modified by removing two spaces from the end of the label field in front of the page number and by expanding the page number field to properly represent six-digit numbers.

**Test Plan**

Testing at UCOP was done by performing a before and after test with a program that used CPWSPSHR. The unmodified program was first executed under the control of Expediter, using that tool to override the initial value of the page number from zero to 9997. The program was then allowed to run with the report beginning with page 9998, followed by page 9999, after which the overflow occurred and the next report page was numbered 0000.

The program was then recompiled using the modified CPWSPSHR copymember and the test repeated, again using Expediter. The report began with page 009998, incremented to page 009999, and then incremented to page 010000 as expected.
Campuses may easily perform a similar test.

**Installation Instructions**

1. Install the modified copymember CPWSPSHR.
2. CPWSPSHR is used by more than 100 PPS base system programs, the vast majority of which will never even come close to producing a report that is 10,000 pages in length or more. As those programs are recompiled in the course of normal maintenance, they will begin displaying six-digit page numbers. In San Francisco’s report, programs PPP470 and PPP480 were identified as specific programs where the page overflow/reset was a problem. For this release, therefore, we suggest recompiling those two programs. Campuses may, of course, add additional programs using CPWSPSHR to the list, making sure to do the proper type of compiles and the appropriate binds for each such added program.
3. Compile unmodified programs:

   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.

   Note: "DUAL" programs must be compiled twice and linked into batch and online libraries ("LOADLIB" and "OLOADLIB" respectively), and DUAL-ONLINE programs must be compiled once only and linked into the online library. "CICS" programs must be CICS pre-compiled and compiled once and linked into OLOADLIB. "BATCH" programs must be compiled once and linked into the batch LOADLIB only.

   a) Install, compile, link, and bind the unmodified programs listed in Table 1

<table>
<thead>
<tr>
<th>Program Name</th>
<th>DB2?</th>
<th>Compile</th>
<th>Plan Bind?</th>
<th>Done?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPP470</td>
<td>Yes</td>
<td>Batch</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>PPP480</td>
<td>Yes</td>
<td>Batch</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

   Table 1

4. Testing

   Perform any desired campus testing.

5. Place modified objects in production.

**Timing of Installation**

The installation of this release is *Not Urgent*.

As usual, campuses are encouraged to install this release in as timely a fashion as possible and in the normal numeric sequence of releases.

If there are any questions, please send electronic mail to Jerry.Wilcox@ucop.edu, or call at (510) 987-0516.

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