This electronic mail communication constitutes an official release of a change to the University of California Base Payroll System. A confirmation release letter will follow by U.S. Mail, but campuses are authorized to install this release immediately upon receipt of this communication.

Release 1069 issued three one-time programs to load retroactive TX files, calculate interest, and produce the final Compute file and reports.

Release 1074 re-released PPO1069C with a fix for a zero divide condition and possible sign errors.

It was reported that PPO1069C still contained an error which could result in a zero divide error. The condition occurs when employee amounts are being grouped, and the net sum of the hours of a collection of grouped hourly transactions is zero.

The one-time program is being re-released with the same name, i.e. PPO1069C.

Release Title: PPO1069C zero divide correction
Programs Being Modified: PPO1069C
Error Report: 1422
Change Mark: 28211075
Urgency: Urgent.

1. Make the following changes to one-time COBOL program PPO1069C.

At the beginning please insert the following flowerbox:

```
**************************************************************/
* PROGRAM: PPO1069C                                          */
* RELEASE: ___1075______ SERVICE REQUEST(S): ___12821____  */
* REF REL: ___1069,1074 ___                                    */
* NAME:__PHIL THOMPSON__ MODIFICATION DATE:  ___07/03/96_   */
* DESCRIPTION:                                              */
* ERROR REPORT 1422:                                         */
* - MOVE +1 TO HOURS WHEN NET GROUPED HOURS = ZERO.           */
* ***************************************************************/
```

2. In 1500-GROUP-EMP-AMOUNT find the following code and insert the changes:

```cobol
IF XC2T-HR-PCT = />'
    COMPUTE XC2T-GROSS9 = WS-EMP-GROUP-AMOUNT + .005
    MOVE 1.0000 TO XC2T-TIME-PCT
ELSE
    IF XC2T-HR-PCT = 'H'
        IF WS-EMP-GROUP-HOURS = 0
```
END-IF

COMPUTE XC2T-RATE9 = *(WS-EMP-GROUP-AMOUNT / WS-EMP-GROUP-HOURS) + .00005

COMPUTE XC2T-TIME9 = WS-EMP-GROUP-HOURS

2. In 1520-AMOUNT-GROUPS find the following code and insert the changes:

IF XC2T-HR-PCT = '%'
   MOVE WS-EMP-GROUP-AMOUNT TO XC2T-GROSS9
   MOVE 1.0000 TO XC2T-TIME-PCT
ELSE
   IF XC2T-HR-PCT = 'H'
      IF WS-EMP-GROUP-HOURS = 0
         MOVE +1 TO WS-EMP-GROUP-HOURS
      END-IF
      COMPUTE XC2T-RATE9 = *(WS-EMP-GROUP-AMOUNT / WS-EMP-GROUP-HOURS) + .00005
      COMPUTE XC2T-TIME9 = WS-EMP-GROUP-HOURS
   END-IF

Testing:

At UCOP we tested with transactions for an ID that required grouping (i.e. more 99 transactions would be required otherwise), that were hourly transactions and had equal positive and negative transactions so that the grouped net sum of hours was zero.

We ran the Release 1074 version of PPO1069C and it abended with an OCB zero divide error.

We made the above changes and reran PPO1069C. It ran to successful completion. The output transaction has the net rate (which can be zero, or greater or lesser than zero, depending on the original rates) and one hour.

Installation Instructions
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1. Modify program PPO1069C per above.
2. DB2 pre-compile, compile and link PPO1069C into the batch DBRMLIB and LOADLIB.
3. Bind the plan for PPO1069C.
4. Perform the above test.
5. Perform any desired local tests.
6. Install in production.

The modified program is available on the payroll FTP site, in the PAYDIST.R1075.COBOL library.

Timing of Installation
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The installation of this release is Urgent. This release should be installed as soon as possible in order to allow campus Payroll offices to proceed with the TX retroactive process.

If there are any questions, please send electronic mail to Phil.Thompson@ucop.edu, or call at (510)987-0468.