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Re: Release: 1187
Service Request: Technical
Error Reports: 1560
Programs: PPOT1187
DB2 Programs: PPP876, PPP878 (new), PPP879 (new), PPP882 (new), PPP883 (new),
             PPP884 (new), PPP885 (new), PPP888 (new)
CICS Programs: None
Copymembers: CPPDXDC3, CPWSXFIN (new)
Include members: None
DDL members: None
Bind members: PPP878 (new), PPP879 (new), PPP882 (new), PPP883 (new), PPP884 (new), PPP885 (new), PPP888 (new)
CICS maps: None
Forms: None
Table updates: System Messages Table, Code Translation Table
Urgency: Not urgent (See Timing of Installation)

Technical Service Request

With this release the Payroll Maintenance unit is establishing the practice of citing a "technical service request" in cases where the main (or sole) impetus for a release is the accomplishment of a technically motivated change to the system with little or no functional impact. Change lines for such a release will be marked with the character string "TECHrrrr", where "rrrr" represents the particular release number.

In this case, the technical service request asks that all Payroll/Personnel System (PPS) programs written in the FOCUS language be converted to the COBOL language. All such programs are reporting programs. The intent of the service request is that, insofar as possible, the original functionality of these programs be retained in the new versions.

Some FOCUS reporting programs have already been replaced as a result of functionally oriented releases. The remainder of the PPS FOCUS library is replaced and made obsolete with this release.
Error Report 1560

This error report cites a problem with the handling of Work Study split percentages which resulted from the GFAU modifications made in release 1138. Specifically, program PPP876 uses the wrong function flag in calling program PPWSPUT2, setting XWSI-CHECK-FAU to true when it should be setting XWSI-CHECK-FAU-WSP to true. The result is that PPP876 attempts in certain cases to perform a DIVIDE function using a zero denominator.

New DB2 Programs

The description of the new and modified programs included in this release is arranged according to the functional areas upon which the programs report. The functional areas are:

- Dependent Data
- Labor Relations
- Other State or Local Tax
- Student Earnings and Financial Aid
- Title Code Table Reporting

Dependent Data

FOCUS-based reporting on dependent data was accomplished by five FOCEXECs:

- PPFOAD This program produced reports on dependents who are approaching the age limit for coverage and those who have reached that age and for whom de-enrollments are pending. As noted above, this module was replaced in release 1153 by the COBOL program PPP880.
- PPFOCD This program produced a report listing those dependents whose relationship to the covering employee is that of ‘Other Child’. As noted above, this module was replaced in Release 1153 by the COBOL program PPP881.
- PPFDUP This program produced reports intended to identify: 1) employees who carry benefits coverage themselves and are carried for benefits coverage as dependents of another employee, and 2) individuals who appear to be covered by more than one employee. This module is replaced in this release by COBOL program PPP882.
- PPFCCD This program produced a report of those employees whose coverage level(s) for one or more benefits appear to be inconsistent with the number of dependents recorded on the Employee Data Base (EDB) for that benefit. This report was made obsolete in Release RRRR when derivation of coverage code values was automated.
- PPFDSS This program produced a report identifying all records on the PPPDEP table for which the dependent’s Social Security Number is either all blanks or all zeroes. The report was available in both Employee Name order and in order by Employee Name within Home Department. This module is replaced by the COBOL program PPP883.

The new COBOL programs are described below.

PPP882

This program replaces and makes obsolete the FOCEXEC PPFDUP. Through the data supplied on the input specification (UPAY 823) the user can select either one or both of the following:
• The PPP8821 report which displays employees who have duplicate coverage through their own eligibility as employees and through a dependent relationship with another UC employee. This replaces the PPFDUP1 report.
• The PPP8822 report, which identifies dependent records which appear to record duplicate coverage for a single individual through dependent relationships with more than one UC employee. This replaces the PPFDUP2 report.

The program reads the PPPDEP table of the EDB in order by Employee ID Number within Dependent Social Security Number.

If the PPP8822 report has been requested, the program evaluates the PPPDEP rows, writing report records whenever two or more PPPDEP rows are found which share a common Dependent Social Security Number and which indicate simultaneous coverage for the same benefit.

If the PPP8821 report has been requested, each unique Dependent Social Security Number is checked against the PPPPAY table to determine whether the dependent in question is also an employee. If so, the benefits for the employee are retrieved from the PPPBEN table and compared to the coverage indicated on the PPPDEP table. Whenever duplicate coverage is found a record is written to a reporting file. This file subsequently is sorted in an internal sort and the PPP8821 report is produced from the sorted records.

PPP883

PPP883 replaces and makes obsolete the FOCEEXEC PPFDSS. The program reads those rows of the PPPDEP table of the EDB which meet the following criteria:

• The employee record to which the dependent record is related has an Employment Status code value other than ‘S’.
• The dependent record has a blank or all-zero Social Security Number.
• The dependent record indicates active enrollment in Medical, Dental, Vision or Legal coverage.

If the PPP8831 report (Employee Name Order) has been requested, the data from the PPPDEP row and other data from the EDB record of the employee in question are used to generate the appropriate print records.

If the PPP8832 report (Home Department Order) has been requested, the same information is used to construct a reporting file record. Upon completion of the evaluation of all PPPDEP table rows the reporting file is sorted by Home Department and read sequentially to produce the PPP8832 report.

Labor Relations

In order to support campus Labor Relations reporting requirements, four FOCEEXECs were written for PPS:

• PPFCCTU This program produced counts of employees by Title Unit Code.
• PPFDADA This program produced counts of exclusively represented who are authorized to pay dues to a collective bargaining agent or organization.
• PPFDN This program produced counts of non-represented employees who are authorized to pay dues to a collective bargaining agent or organization.
• PPFENR This program produced counts of non-represented employees.
The reporting programs have all been replaced by the new COBOL program PPP885, described below.

PPP885

This program reads an input specification record and the EDB to accumulate totals of employees that fit the various categories identified by the original FOCEXECs. Each of the various reports produced is available in one of four configurations, which can be readily identified by the specification input used to select them:

- **ALL** - All employees on the EDB are reported together in a single column.
- **UCOP** - Only Office of the President (UCOP) and the Department of Agriculture and Natural Resources (DANR) employees are counted. These employees are defined as those whose EDB records carry distributions with Full Accounting Units (FAUs) belonging either to UCOP or DANR. They are reported upon separately and in total.
- **COMBINED** - All employees on the EDB are counted, but are reported upon in the categories ‘Campus’, ‘UCOP’ and ‘DANR’ and in total.
- **CAMPUS** - Only campus employees (i.e., those who have no EDB distributions carrying UCOP or DANR FAUs) are counted and these are reported upon in a single column.

In order to produce proper results on the PPP8854 report (Non-Represented Employees by Employee Relations Code) a set of Code Translation Table transactions, included with this release, must be applied.

Other State or Local Tax

The PPS FOCEXEC PPFOST generated reports concerning those employees whose EDB records carried some indication of a tax relationship with a state other than California or some other local taxing authority. This FOCEXEC has been replaced by the COBOL program PPP884.

PPP884

This program reads an input specification that indicates the quarter for which reporting is to occur and the sort order (Employee Name or Employee Identification Number order) of the primary detail report to be produced, PPP8841 – Employees with Other State Tax and Gross.

In order to produce the PPP8841 report, a cursor is opened on the PPPGTN table, retrieving and storing the Gross-to-Net Number and Description for all rows that carry a GTN_SET_INDICATOR of either ‘4’ or ‘5’. The program then retrieves data on all employees for whom a PPPDBL table row exists for any one of the retrieved GTNs. If the report is requested in Employee Name order, an internal sort procedure is invoked.

The program produces three other reports that identify potentially problematic exception conditions detected through a review of EDB records. These reports are:

- PPP8842 – Other State Grosses Not Identified by State Name Code
- PPP8843 – Other State Grosses with No Matching Year-to-Date Deductions
- PPP8844 – Other State Grosses with No Matching Gross-to-Net Table Entry

In order to produce these reports, a cursor is opened on the PPPPCM table of the EDB, retrieving all rows for which one of the Other State Withholding Tax Gross columns contains a non-zero value. For each retrieved row, the program determines whether the record satisfies the criteria for each of the three reports listed above.
Student Earnings and Financial Aid

The current set of student earnings and financial aid reports are produced by the following FOCEXECs:

PPFFAE produces reports that identify potential exceptions in the identity information on individuals who are both students and employees. The existing FOCUS reports are:

- PPFFAE1 – Multiple Employee IDs by SSN
- PPFFAE2 – Multiple Names by Employee ID
- PPFFAE3 – Multiple SSNs by Employee ID

PPFSES produces reports related to earnings received by student employees during the current fiscal year:

- PPFSES1 – Student Earnings Report
- PPFSES2 – Student Earnings Summary
- PPFSES3 – Student Earnings Control

PPFWSE produces reports related to earnings received by Work Study recipients during the current fiscal year:

- PPFWSE1 – Work Study Earnings Report
- PPFWSE2 – Work Study Earnings Control

PPFFAE is replaced by COBOL program PPP879, PPFSES is replaced by PPP878 and PPFWSE is replaced by PPP888. All of the FOCEXECs and their respective replacement COBOL programs use the Fiscal Year-to-Date Student Earnings/Financial Aid Extract file produced by PPP876 as the primary source of information. This file will be referred to hereinafter as the ‘PPP876 extract’.

In addition to these replacements, this release expands all date fields within the PPP876 extract from Standard format (YYMMDD) to Standard Long (YYYYMMDD).

PPOT1187

Program PPOT1187 is a one-time program which reads the Fiscal Year-to-Date Student Earnings/Financial Aid Extract file and expands six character date fields to eight characters through the use of the modified version of copymember CPPDXDC3.

PPP878

The PPFSES1, PPFSES2 and PPFSES3 reports are replaced by PPP8781, PPP8782 and PPP8783, respectively. PPP8781 is available in either Employee Name order or Social Security Number order. The program reads an input specification record to determine the fiscal year for which reporting is desired and the sort order for the PPP8781 report. If the input specification information is valid, the System Calendar utility, PPCALUTL, is called to retrieve information for the PPP8783 Student Earnings Control report. This information is stored in an internal array for subsequent use.
The program then reads the PPP876 extract file sequentially in its entirety, using only earning detail records from that file in processing. Detail information is treated in three ways:

1. A subset of the information on each record is written to a reporting file that will be sorted according to the input specification for later production of the PPP8781 Student Earnings report.
2. Gross amounts are accumulated in an array that is used to produce the PPP8782 Student Earnings Summary report.
3. Any pay cycles which are found and which were not retrieved from the System Calendar are added to the array that is used to produce the PPP8783 Student Earnings Control report.

PPP879

PPP879 reads the PPP876 extract file in its entirety. For each distinct Employee Identification Number encountered, the program verifies the identity information (Name, Social Security Number) found in the PPP876 extract file against the EDB. In addition, internal arrays of Names and Social Security Numbers associated with a given Employee Identification Number are maintained. At Employee Identification Number break, exception report records are written when multiple identity elements have been encountered. When more than one Employee Name has been found, a record is written to the PPP8792 – Multiple Employee Names by Employee ID report. When more than one Social Security Number has been found a record is written to the PPP8793 – Multiple SSNs by Employee ID report.

Also, a reporting file record is written for each distinct Employee Identification Number/Social Security Number combination. The resulting reporting file is sorted on Social Security Number to produce the PPP8791 – Multiple Employee IDs by SSN report.

PPP888

The PPFWSE1 and PPFWSE2 reports are replaced by PPP8881 and PPP8882, respectively. PPP8881 is available in either Employee Name order or Social Security Number order. The program reads an input specification record to determine the fiscal year for which reporting is desired and the sort order for the PPP8881 report. If the input specification information is valid, the System Calendar utility, PPCALUTL, is called to retrieve information for the PPP8882 Work Study Earnings Control report. This information is stored in an internal array for subsequent use.

The program then reads the PPP876 extract file sequentially in its entirety, using only earning detail records from that file in processing. Detail information is treated in three ways:

1. A subset of the information on each record is written to a reporting file that will be sorted according to the input specification for later production of the PPP8881 Work Study Earnings report.
2. Any pay cycles which are found and which were not retrieved from the System Calendar are added to the array that is used to produce the PPP8882 Work Study Earnings Control report.

Existing DB2 Programs

PPP876

The modification to the PPP876 extract file structure described above requires changes to program PPP876. These changes involve use of modified date conversion routines in copymember CPPDXDC3 (see below). In addition, this release addresses error report 1560, modifying the call to program PPWSINPUT2.
Minor modifications have been made to PPP876 to clarify the use of Work Study Program related fields in the extract file which the program produces. Specifically, the program makes no use of the field that it identifies as WSP-CODE in the WS-MERGED-REC1 record. Instead, it uses the field WSP-KEY to record the Work Study Program Code. Comments have been introduced to clarify this situation in the hope that future maintenance will be accomplished more easily.

**New Copymember**

**CPWSXFIN**

This copymember is implemented to provide a common definition for the Fiscal Year-to-Date Financial Aid/Student Earnings extract file produced by program PPP876. This definition will be used by new reporting programs PPP878, PPP879 and PPP888.

**Modified Copymember**

**CPPDXDC3**

This copymember contains procedure division code for date conversions. Its routines which translate Standard date format (YYMMDD) to International Standards Organization (ISO) format (YYYY-MM-DD) and to USA Standard format (MM/DD/YYYY) will produce, as a by-product, dates in Standard Long format (YYYYMMDD). In addition, its routines which translate from ISO and USA to Standard will also produce Standard Long.

**Table Updates**

**System Messages Table**

Message transactions are included with this release to add those messages issued by the new programs.

**Modified UPAY Forms**

**UPAY806**

This form is to be used to format the specification card input for programs PPP878, PPP879 and PPP888.

**UPAY823**

This form is to be used to format the specification card input for program PPP880.

**UPAY834**

This form is to be used to format the specification card input for program PPP884.

**UPAY836**

This form is to be used to format the specification card input for program PPP883.

**UPAY838**
This form is to be used to format the specification card input for program PPP885.

**Installation Instructions**

The following steps should be followed in installing this release:

1. **Install the modified copy statement CPPDXDC3.**
2. Install, batch compile and link-edit the one-time program PPOT1187.
3. Execute program PPOT1187 to convert any existing Financial Aid/Student Earnings files.
4. **Install the modified copy statement CPPDXDC3.**
5. Install, pre-compile, batch compile and link-edit the modified program PPP876.
6. Bind plan PPP876
7. Install the new copy statement CPWSXFIN.
8. Install, pre-compile, batch compile and link-edit the following new programs:
   - PPP878
   - PPP879
   - PPP882
   - PPP883
   - PPP884
   - PPP885
   - PPP888
9. Bind the following new plans:
   - PPP878
   - PPP879
   - PPP882
   - PPP883
   - PPP884
   - PPP885
   - PPP888
10. Execute the release test plan.
11. Execute program PPP010 to add new messages to the VSAM CTL.
12. Execute program PPP851 to re-load the DB2 version of the System Messages Table.
13. **Execute program PPP006 to apply Code Translation Table updates.**
14. Perform any additional testing as required.

**Timing of Installation**

Installation of this release is not urgent. All of the materials in this release were prepared in a post-Release-1138 environment. However, only some of the programs in this release are impacted by generic Full Accounting Unit (GFAU) considerations. While it is recommended that this release be installed in the order received and, therefore, after the installation of release 1138 and its related releases, it is clear that some of the programs in this release may be installed prior to release 1138 installation without adverse impact. Below are lists of programs included in this release grouped according to their relationship to the GFAU releases, i.e., impacted by them or not:
Impacted by GFAU

PPP876
PPP878
PPP879
PPP885
PPP888

Not Impacted by GFAU

PPP882
PPP883
PPP884

If there are any questions please send electronic mail to William.Gayle@ucop.edu or call (510)987-9614.

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