Volume 8: DAF21 Construction Workflow Charts and Task Tables

April 2023

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Contents

Glossary

AB	Accelerated Benefits Demonstration
ADM	Awardee Data Mart
AIME	Average Indexed Monthly Earnings
BEST	Benefits Entitlement Services Team
BFW	Benefits forgone due to work
BIC	Beneficiary Identification Code
BMF	Budget Month Factor
BOAN	Beneficiary's Own Account Number
BOND	Benefit Offset National Demonstration
BOPD	Benefit Offset Pilot Demonstration
CAN	Claim Account Number
CDR	Continuing Disability Review
CER	Characteristics Extract Record 100% Field File
COLA	Cost-of-Living Adjustment
DAC	Disabled Adult Child
DAF	Disability Analysis File (previously known as TRF)
DBAD	Disabled Beneficiary and Dependents Extract
DCF	Disability Control File
DDS	Disability Determination Services
DER	Detailed Earnings Record
DI	Disability Insurance, also referred to as SSDI
DMG	Demographic component of the DAF
DWB	Disabled Widow Beneficiaries
EN	Employment Network (also called a TTW provider)
EPE	Extended Period of Eligibility
EVS	Enumeration Verification System
EXR	Expedited Reinstatement
FBR	Federal Benefit Rate
FCI	Federal Countable Income
FIPS	Federal Information Processing Standards (in reference to U.S. Census standardized codes for uniform identification of geographic entities)
FRA	Full Retirement Age
HI	Hospital Insurance (Medicare Part A)
HOPE	Homeless Outreach Projects and Evaluation Demonstration

HUN	Housed Under Number
ICD-9	International Classification of Diseases Coding Scheme
IPE	Individualized Plan for Employment, developed by State VR Agency
IRS	Internal Revenue Service
IRWE	Impairment-Related Work Expense
LAF	Ledger Account File
LAUS	Local Area Unemployment Statistics
MBR	Master Beneficiary Record
MEF	Master Earnings File
MHTS	Mental Health Treatment Study
MIE	Medical Improvement Expected
MO	Milestone + Outcomes payment system
MPR-EVS	Mathematica's EVS
NBS	National Beneficiary Survey
NSCF	National Survey of SSI Children and Families
NUMIDENT	Numerical Identification File
OIM	Office of Information Management
OO	Outcomes-Only payment system
PAN	Person's Account Number
PASS	Program to Achieve Self-Support
PHUS	Payment History Update System
PIA	Primary Insurance Amount
PIN	Personal Identification Number
POD	Promoting Opportunity Demonstration
POMS	SSA's Program Operations Manual System
PROMISE	Promoting Readiness of Minors in SSI
Provider	Service provider under TTW (also called an EN)
PUF	Public Use File
REMICS	Revised Management Information Counts System
RIB	Retirement Insurance Benefits
RMA	Retrospective Monthly Accounting
RSA	Rehabilitation Services Administration
RSA-911	RSA Case Service Report
SAIPE	Small Area Income and Poverty Estimates
SAS	Statistical Analysis Software, used to produce the DAF

SCWF	Standalone Companion Work File
SED	Supported Employment Demonstration
SER	Summary Earnings Record
SGA	Substantial Gainful Activity
SMI	Supplemental Medical Insurance (Medicare Part B)
SNAP	Supplemental Nutrition Assistance Program
SSN	Social Security Number
SSA	Social Security Administration
SSDI	Social Security Disability Insurance (also referred to as DI)
SSI	Supplemental Security Income
SSI-LF	SSI - Longitudinal File
SSR	Supplemental Security Record
STW	Suspension or termination of cash benefits for work
T2	Title II, the SSDI Program
T16	Title XVI, the SSI Program
TANF	Temporary Assistance for Needy Families
TCNEI	Total countable non-earned income
TKT	DAF component containing data related to TTW participation
TRF	Ticket Research File, now called the DAF
TTW	Ticket to Work
TWP	Trial Work Period
VR	Federal/State Vocational Rehabilitation program/agency
VRRMS	Vocational Rehabilitation Reimbursement Management System; data from this system is contained in the Payments component
YTD	Youth Transition Demonstration

Overview of DAF Documentation

The documentation for the DAF consists of the eleven volumes described below. Questions about these documents should be directed to ORDES.DAF@ssa.gov. All of these documents are available at https://www.ssa.gov/disabilityresearch/daf.html.

- **Volume 1: Getting Started with the DAF21.** Provides an overview of the structure and contents of the DAF and related linkable files.
- **Volume 2: Working with the DAF21.** Contains practical suggestions such as how to extract data and interpret blank or missing variables as well as more detailed information on DAF data marts and linkable files.
- **Volume 3: Tips for Conducting Analysis with the DAF21.** Contains suggestions for working with common research concepts in the DAF such as program participation, benefits paid versus benefits due, and constructed measures related to beneficiary work activity resulting in the loss of cash benefits.
- **Volume 4: Lists of DAF21 Variables.** Contains lists of new, changed, and deleted variables, as well as lists of variables by DAF component and analytic category.
- **Volume 5: DAF Variable Detail Pages.** Contains specifications for each DAF variable, including name, definition, data format, identification of the DAF component to which it belongs, data source, availability, and (where applicable) SAS code used to construct the variable.
- **Volume 6: Validating the DAF21 Against Other Sources.** Provides an explanation of validation methods and summary of validation results.
- **Volume 7: DAF21 Development History and Construction Methods.** Describes key changes in DAF construction methodology over time as well as a description of each step in the current year DAF construction process.
- **Volume 8: DAF21 Construction Workflow Charts and Task Tables.** Provides detailed information in both chart and table format on each step in the current year DAF construction process.
- **Volume 9: DAF21 Source File Descriptions.** Describes the administrative source files used to construct the DAF.
- **Volume 10: DAF21 Administrative Source File Documentation.** Contains documentation from SSA or other agencies on the administrative source files described in Volume 9.
- **Volume 11: DAF21 Construction Code.** Contains all SAS code used to construct the DAF.
- **Volume 12: DAF21 RSA Administrative Source File Documentation.** Contains a description of the processing of Rehabilitation Services Administration (RSA) data for linkage to the DAF, along with documentation from RSA on the RSA-911 files.

The following table provides specific locations for common research-related questions and issues.

In order to …	Refer to …
Get started with a research task	Volume 2, “Working with the DAF21,” for information about selecting beneficiaries using finder files versus selection criteria
Identify what’s changed in the latest version of the DAF	Volume 1, “Getting Started with the DAF21”
View lists of DAF variables	Volume 4, “Lists of DAF21 Variables”
Understand individual variable definitions, specifications, and value ranges	Volume 5, “DAF Variable Detail Pages”
Understand the structure of the DAF data files at a high level	Volume 1, “Getting Started with the DAF21”
Identify variables for a specific research task	Volume 4, “Lists of DAF21 Variables,” for a list of variables contained within each DAF file and by analytic category
Understand the beneficiaries for which the DAF does and does not contain data	Volume 1, “Getting Started with the DAF21”
Identify administrative data sources for the DAF	Volume 9, “DAF21 Source File Descriptions”
Understand the linkage of the DAF to RSA-911 data and contents of the RSA files	Volume 12, “DAF21 RSA Administrative Source File Documentation”
Generate ideas for using the DAF more efficiently	Volume 1, “Getting Started with the DAF21” and Volume 2, “Working with the DAF21”
Find suggested ways to identify common research concepts in the DAF, such as calculating age of retirement, or disability title	Volume 3, “Tips for Conducting Analysis with the DAF21”
Understand what variables have changed in the most recent DAF	Volume 4, “Lists of DAF21 Variables”
Read about how information in the DAF is validated against other sources	Volume 6, “Validating the DAF21 Against Other Sources”

I. Understanding Workflow Charts and Task Tables

A. Workflow charts

Workflow charts reflect each step in the DAF construction process, illustrating the flow and manipulation of the data through the sequence of programs. JCL names for each SAS program are included in boxes.

B. Task tables

For each task, table sections are as follows:

Task Number and Name: identified at the top of each table.

Summary: provides an overview of the task steps.

Purpose: information for each step expands on the summary to provide a more thorough narrative of the construction task.

Programs: all relevant programs for each step are listed, including JCL, SAS code, and log file name, along with the execution date of the program and the name of the appendix in Volume 11, *DAF Construction Code and Data Mart Details* in which the code can be found.

Input: information on the input datasets for each step, which includes file name, file format, and number of observations.

Output: information on the output datasets from each step, which includes file name, file format, and number of observations.

Approximate Processing Time: the approximate processing time to run each program, by step. It should only be considered an approximation as many factors unrelated to the program itself can influence processing times.

Program QA: briefly explains methods used by Mathematica programmers to check the accuracy of code and output. For overall quality assurance of the DAF database, please see Volume 6, *Validating the DAF Against Other Sources.*

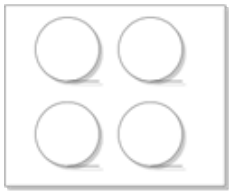
Data Documentation: provides references to external documentation, such as the relevant chapters in the SSA Program Analyst Manual, (RAND Manual, May 2007), where applicable.

SSA Contact Staff: identifies the SSA point of contact for the task.

C. Legend for DAF21 construction workflow charts

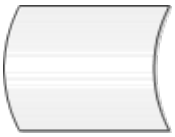
Tape File/Flat file or Multiple Tape/Flat files with the same data elements if number of files is noted in the shape

Single DB2 Database or Multiple DB2 Databases if number of files is noted in the shape

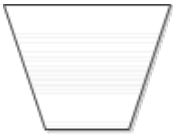


Multiple Tape/Flat files – used when space permits the individual representation of each file or files do not contain the same data elements

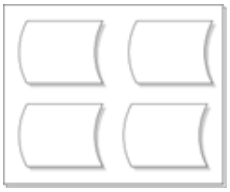
Single Excel Table



Single Non-Tape File and/or Resulting Dataset or Multiple Non-Tape files if number of files is noted in the shape



Manual process step



Multiple Non-Tape files or Resulting Datasets – used when space permits the individual representation of each file

Final Output Text File

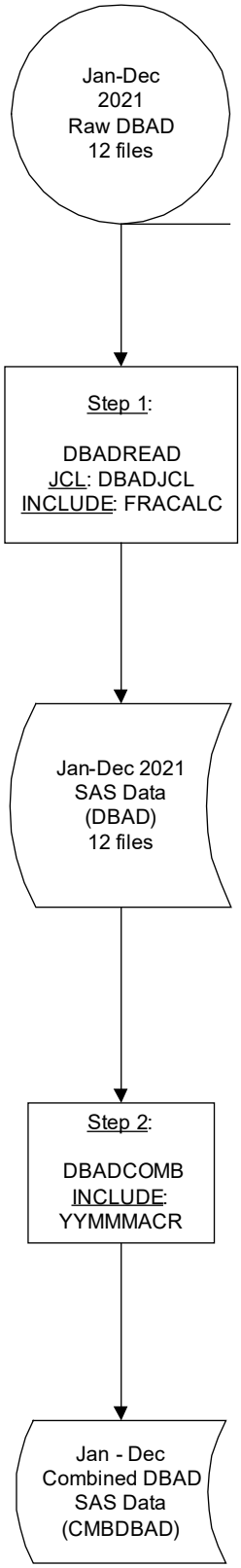
Mainframe/JCL/SAS program used for copy files Returns from SSA. Program written & executed by SSA

Mainframe/JCL/SAS Program

II. Workflow Charts and Task Tables for DAF21

In the following pages, workflow charts and task tables for each of the twenty one tasks needed to construct and validate the DAF, DAF-RSA and PUF files are presented.

Task 1. Assemble and combine DBAD files



Task No.: 1	**Task Name:** Assemble and Combine DBAD Files

Summary: The purpose of this task is to:

1. Create a finder file to submit to SSA staff for SSDI data.

2. Convert the raw SSA data into SAS format and combine all selected records from DBAD files for the selected months (January through December of the DAF year).

Step 1

PURPOSE:
Assemble DBAD files by SAS loading 12 months of DBAD monthly extracts. The selection criterion is based on BIC, LAF, TOC, and FRA:

- For records where BIC = “A”, use the CAN as the SSN identifier for DAF.
- For records where BIC = “C” or “W”, use the BOAN as the SSN identifier for DAF, but also keep CAN.

De-duplicate on SSN/BIC to keep all possible CANs for finders and all possible SSN/BIC combos for linking returned records.

DATE EXECUTED: 02/15/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(DBADJCL) (See Appendix A.10)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(DBADREAD) (See Appendix A.11)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(FRACALC) (See Appendix A.1)

INPUT(S):
MTOSSI.T2.DBADMBR.D21xx WHERE xx=01 – 12 (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DBAD21xx.SA.V1 WHERE xx=01 – 12 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.DBADJCL

APPROXIMATE PROCESSING TIME: 05 hours 51 minutes 56 seconds

QA:

- Confirm whether DBAD file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
  Year-to-year comparison of input record counts: check for reasonable trend in changes

M	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
1	57,949,349	59,088,245	60,052,552	1.97%	1.64%
2	58,035,466	59,181,788	60,121,036	1.98%	1.59%
3	58,155,080	59,299,300	60,211,819	1.97%	1.54%
4	58,256,736	59,378,534	60,289,807	1.93%	1.53%
5	58,349,353	59,462,653	60,373,198	1.91%	1.53%
6	58,452,456	59,529,130	60,444,443	1.84%	1.54%
7	58,545,946	59,591,020	60,513,005	1.79%	1.55%
8	58,641,962	59,671,771	60,596,663	1.76%	1.55%
9	58,750,103	59,750,926	60,652,990	1.70%	1.51%
10	58,843,183	59,842,975	60,733,646	1.70%	1.49%
11	58,935,728	59,906,887	60,783,143	1.65%	1.46%
12	58,971,092	59,969,936	60,846,200	1.70%	1.46%

- Year-to-year comparison of output record counts: check for reasonable trend in changes

M	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
1	9,985,759	9,824,930	9,615,684	-1.61%	-2.13%
2	9,975,520	9,816,850	9,630,012	-1.59%	-1.90%
3	9,969,448	9,812,457	9,603,517	-1.57%	-2.13%
4	9,962,296	9,805,142	9,579,998	-1.58%	-2.30%
5	9,950,163	9,794,702	9,553,719	-1.56%	-2.46%
6	9,939,944	9,779,813	9,527,113	-1.61%	-2.58%
7	9,922,350	9,756,247	9,497,347	-1.67%	-2.65%
8	9,907,081	9,734,864	9,470,358	-1.74%	-2.72%
9	9,898,523	9,710,776	9,429,358	-1.90%	-2.90%
10	9,884,349	9,677,497	9,389,329	-2.09%	-2.98%
11	9,870,730	9,642,249	9,352,153	-2.31%	-3.01%
12	9,843,336	9,607,700	9,319,655	-2.39%	-3.00%

Step 2

PURPOSE:
Combine the 12 DBAD files into one data set. The ZIP, ZIPADD, and the BIC field are converted into monthly variables. For example, the variables from the January DBAD file are converted into variables with January included in the name of the variables.

DATE EXECUTED: 02/16/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(DBADCOMB) (See Appendix A.12)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.DBAD21xx.SA.V1 WHERE xx=01 – 12 (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CMBDBAD.SA.V1 (N = 10,192,368) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.DBADCOMB

APPROXIMATE PROCESSING TIME: 00 hours 03 minutes 38 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	OBS	RATE
DAF19	10,710,903	-1.47%
DAF20	10,488,463	-2.08%
DAF21	10,192,368	-2.82%

- Proc Contents Comparison of Combined DBAD output file to previous DAF year’s file
- Compare frequencies and means of key variables from current DAF to previous DAF

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

SSA Contact Staff:
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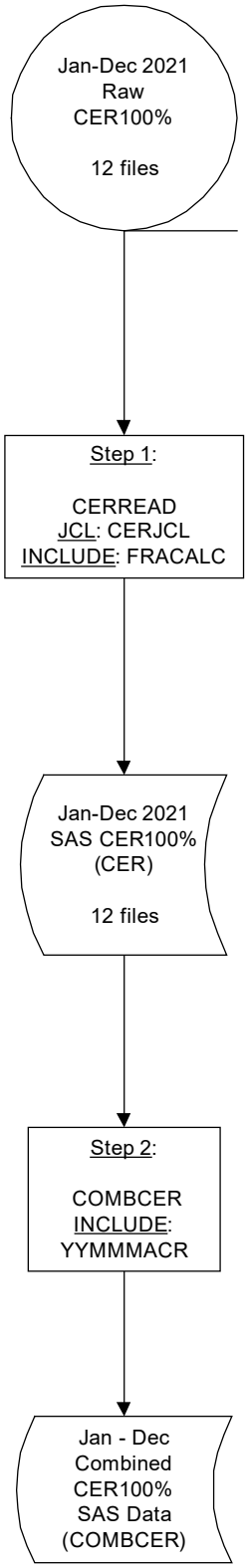
Task 2. Assemble and combine CER100% files



Task No.: 2	**Task Name:** Assemble and Combine CER100% Files

Summary: The purpose of this task is to:

1. Create a finder file to submit to SSA staff for SSI data.
2. Convert the raw SSA data into SAS format, and combine all selected records from CER100% files for the selected months (e.g., for DAFyy, this would be January 20yy to December 20yy) to create a finder file.

Step 1

PURPOSE:
Assemble CER100% files by SAS loading 12 months of CER100% file monthly extracts (January to December) and selecting records based on PSTAT, MFT, Denial Code, and age. As each SSI record is listed under the beneficiary's own SSN (PAN), use PAN as the SSN identifier for DAF.

DATE EXECUTED: 02/15/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(CERJCL) (See Appendix A.13)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(CERREAD) (See Appendix A.14)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(FRACALC) (See Appendix A.1)

INPUT(S):
MTOSSI.CER100.FIELD.D21xx WHERE xx=01 – 12 (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CER20xx.SA.V1 WHERE xx=01 – 12 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.CERJCL

APPROXIMATE PROCESSING TIME: 01 hour 04 minutes 06 seconds

QA:

- Confirm whether CER file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of input record counts: check for reasonable trend in changes

M	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
1	7,237,354	7124912	7,013,871	-1.55363	-1.55849
2	7,197,687	7117800	6,996,259	-1.1099	-1.70756
3	7,200,170	7132152	6,964,755	-0.94467	-2.34708
4	7,194,049	7123804	6,924,079	-0.97643	-2.80363
5	7,188,089	7112081	6,907,748	-1.05742	-2.87304
6	7,185,696	7108816	6,898,013	-1.0699	-2.96537
7	7,174,498	7083786	6,878,479	-1.26437	-2.89827
8	7,164,738	7066214	6,872,363	-1.37512	-2.74335
9	7,174,916	7061692	6,873,891	-1.57805	-2.65943
10	7,154,890	7032364	6,871,598	-1.71248	-2.28609
11	7,146,914	7016426	6,872,877	-1.8258	-2.0459
12	7,148,782	7007475	6,878,189	-1.97666	-1.84497

- Year-to-year comparison of output record counts: check for reasonable trend in changes

M	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
1	7,237,354	7124912	7,013,871	-1.55363	-1.55849
2	7,197,687	7117800	6,996,259	-1.1099	-1.70756
3	7,200,170	7132152	6,964,755	-0.94467	-2.34708
4	7,194,049	7123804	6,924,079	-0.97643	-2.80363
5	7,188,089	7112081	6,907,748	-1.05742	-2.87304
6	7,185,696	7108816	6,898,013	-1.0699	-2.96537
7	7,174,498	7083786	6,878,479	-1.26437	-2.89827
8	7,164,738	7066214	6,872,363	-1.37512	-2.74335
9	7,174,916	7061692	6,873,891	-1.57805	-2.65943
10	7,154,890	7032364	6,871,598	-1.71248	-2.28609
11	7,146,914	7016426	6,872,877	-1.8258	-2.0459
12	7,148,782	7007475	6,878,189	-1.97666	-1.84497

Step 2

PURPOSE:
Combine the 12 CER100% files into one data set. Selected variables have been converted into monthly variables.

DATE EXECUTED: 02/16/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(CERCOMB) (See Appendix A.15)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CER21xx.SA.V1 WHERE xx=01 – 12 (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCER.SA.V1 (N = 7,441,536) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.CERCOMB

APPROXIMATE PROCESSING TIME: 00 hours 03 minutes 22 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	OBS	RATE
DAF16	8,057,736	.
DAF17	8,025,639	-3.98%
DAF18	7,934,636	-1.13%
DAF19	7,843,650	-1.15%
DAF20	7,634,256	-2.67%
DAF21	7,441,536	-2.52%

- Proc Contents Comparison of Combined CER output file to previous DAF year’s file

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

SSA Contact Staff:
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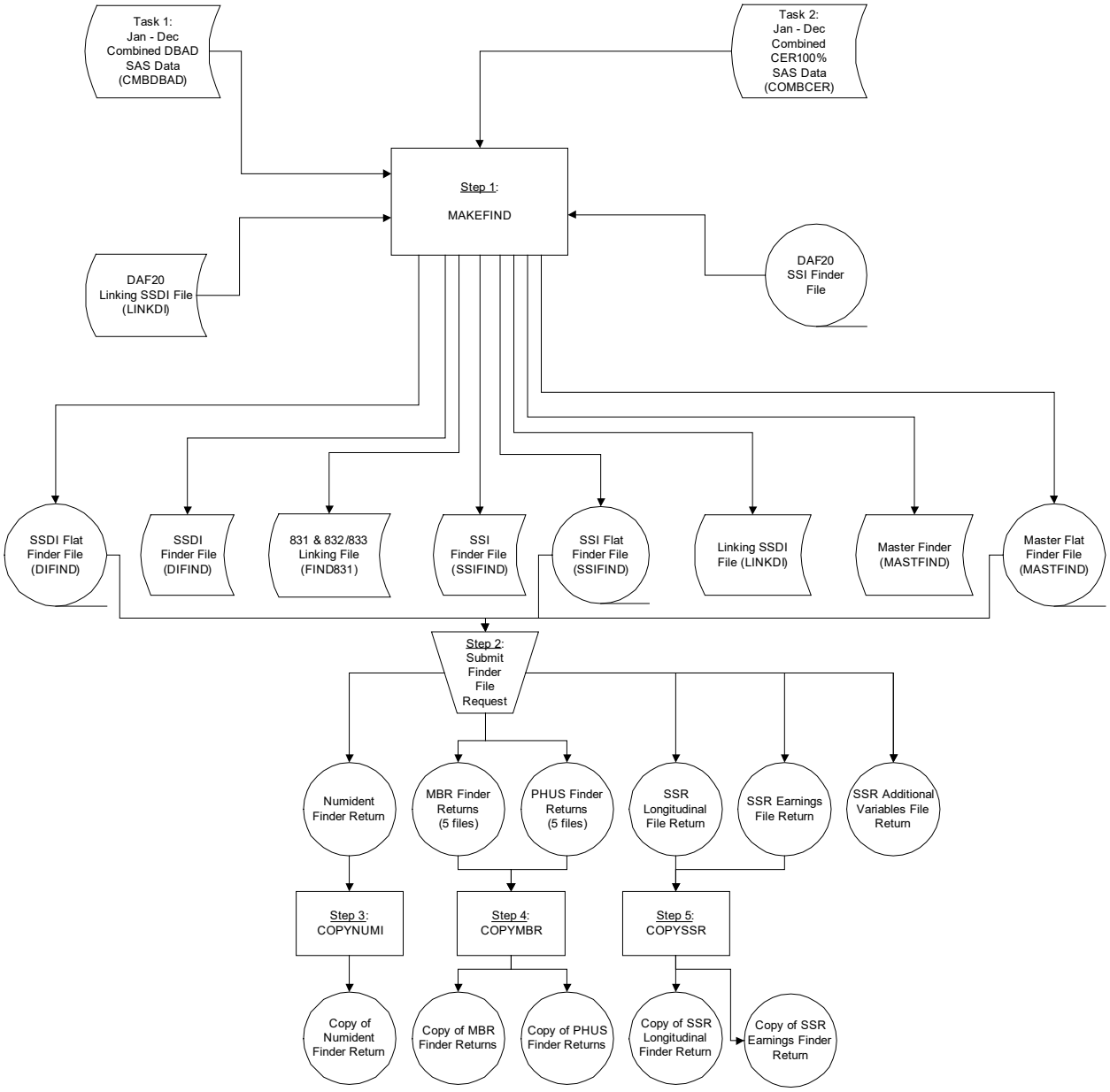
EMAIL: Paul.OLeary@ssa.gov

Task 3. Create and submit finders



Task No.: 3	**Task Name:** Create and Submit Finders

Summary: The purpose of this task is to:

1. Combine the lists of CANs, BOANs, and PANs, compiled from the DBAD and CER100% Field files data, with the SSNs from the previous DAF version.
2. Create SSI Flat Finder, SSDI Flat Finder, the NUMIDENT/Earnings Flat Finder, the Linking SSDI File, the Master Finder, and the linking file for subsetting 831-833 records.
3. Submit Finders to SSA and make copies of returned files as needed.

Step 1

PURPOSE:
Create finder files for SSI and SSDI as well as a reference file for SSDI to link CANs to SSNs by BIC (Linking SSDI file).

- For the SSI Flat Finder, provide the list of PANs to SSA staff, who pull corresponding data from the SSI longitudinal file.
- For the SSDI Flat Finder, provide the list of CANs to SSA staff, who pull corresponding SSDI data.

Create a Master Finder for NUMIDENT, to obtain demographic data such as birth and death dates, and MEF to obtain earnings data for 1990-2020 MEF.

- The previous year's finder and linking files include all the cases in the DAF DMG component file, so we use them as the base files to which we add the new 100% CER file and DBAD data from the current DAF year.

Create linking file to pull records from the 831 & 832/833 files.

- The file will contain CANs for SSDI (T2) and SSNs from SSI (T16).
- This list is matched to identifiers in the 831 & 832/833 file to select the appropriate records.

DATE EXECUTED: 02/16/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.PRDLIB(MAKEFIND) (See Appendix A.16)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CMBDBAD.SA.V1 (N= 10,192,368) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCER.SA.V1 (N= 7,441,536) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.LINKDI.SA.V1 (N= 24,800,117) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.SSIFIND.SA.V1 (N=21,171,274) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.LINKDI.SA.V1 (N= 25,369,154) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DIFIND.SA.V1 (N= 24,422,962) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DIFIND.FL.V1 (N=24,422,962) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.SA.V1 (N=21,558,767) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.FL.V1 (N=21,558,767) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1 (N=37,523,560) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.FL.V1 (N=37,523,560) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.FIND831.SA.V1 (N= 38,555,294) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.FINDER.MAKEFIND

APPROXIMATE PROCESSING TIME: 00 hours 08 minutes 17 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
LINKDI	24,142,469	24,800,117	25,369,154	2.72%	2.29%
DIFIND	23,254,237	23,879,601	24,422,962	2.69%	2.28%
SSIFIND	20,706,202	21,171,274	21,558,767	2.25%	1.83%
MASTFIND	35,887,308	36,763,625	37,523,560	2.44%	2.07%
FIND831	36,865,308	37,771,082	38,555,294	2.46%	2.08%

Step 2

PURPOSE: Submit finders request via email to SSA.

DATE EXECUTED: 03/08/2022

MAIN PROGRAM: n/a

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DIFIND.FL.V1 (N=24,422,962) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.FL.V1 (N=21,558,767) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.FL.V1 (N=37,523,560) (Flat file format)

OUTPUT(S):
MBR and PHUS Finder returns

- OPDR.TG.PRD.ETTW.DAF21.MBROUT.F1.R220329 (N= 8,978,955) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F1.R220329 (N =8,978,955) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.MBROUT.F2.R220329 (N= 8,975,977) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F2.R220329 (N = 8,975,977) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.MBROUT.F3.R220329 (N= 8,974,223) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F3.R220329 (N = 8,974,223) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.MBROUT.F4.R220329 (N= 8,977,320) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F4.R220329 (N = 8,977,320) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.MBROUT.F5.R220329 (N= 8,975,430) (Flat file format)
- OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F5.R220329 (N = 8,975,430) (Flat file format)

Numident Finder return

- OPDR.TG.PRD.ETTW.DAF21.NUMI.Y22M0330 (N= 139,329,983) (Flat file format)

SSR Longitudinal Finder return

- OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V1 (N= 75,388,647) (Flat file format)
- OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V2 (N= 75,388,647) (Flat file format)

SSR Earnings Finder return
- OPDR.TG.PRD.ETTW.#7429.DAF21.SSRERN.FL.V1 (N= 215,656,407) (Flat file format)

SSR Additional Variables Finder return
- AIS.P1252.ADVRSAS.AVR21.2203.FILE1A (N = 854,365,731) (SAS file format)
- AIS.P1252.ADVRSAS.AVR21.2203.FILE2A (N = 854,247,021) (SAS file format)
- AIS.P1252.ADVRSAS.AVR21.2203.FILE3A (N = 854,119.422) (SAS file format)
- AIS.P1252.ADVRSAS.AVR21.2203.FILE4A (N = 854,095,755) (SAS file format)

LOG: n/a

APPROXIMATE PROCESSING TIME: n/a

QA: n/a

Step 3

PURPOSE: Copy MBR and PHUS finder returns.

DATE EXECUTED: 04/04/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.PRDLIB(COPYMBR) (See Appendix A.18)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.DAF21.MBROUT.F1.R220329 (N= 8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F1.R220329 (N =8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.MBROUT.F2.R220329 (N= 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F2.R220329 (N = 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.MBROUT.F3.R220329 (N= 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F3.R220329 (N = 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.MBROUT.F4.R220329 (N= 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F4.R220329 (N = 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.MBROUT.F5.R220329 (N= 8,975,430) (Flat file format)
OPDR.TG.PRD.ETTW.DAF21.PHUSOUT.F5.R220329 (N = 8,975,430) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F1.R220329 (N= 8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F1.R220329 (N =8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F2.R220329 (N= 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F2.R220329 (N = 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F3.R220329 (N= 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F3.R220329 (N = 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR..F4.R220329 (N= 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F4.R220329 (N = 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F5.R220329 (N= 8,975,430) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F5.R220329 (N = 8,975,430) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.COPYMBR

APPROXIMATE PROCESSING TIME: 02 hours 06 minutes 47 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm that number of records in copied files matches that of original files

Step 4

PURPOSE: Copy the Numident finder return.

DATE EXECUTED: 04/04/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.PRDLIB(COPYNUMI) (See Appendix A.17)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.DAF21.NUMI.Y22M0330 (N= 139,329,983) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.NUMI.FL.V1 (N= 139,329,983) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.COPYNUM

APPROXIMATE PROCESSING TIME: 00 hours 05 minutes 47 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm that number of records in copied files matches that of original files

Step 5

PURPOSE: Copy the SSR longitudinal and earnings finder returns.

DATE EXECUTED: 04/25/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.PRDLIB(COPYSSR) (See Appendix A.19)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
MTOSSI.MISC.LONGTP.FRDAF21.D2203 (N= 75,388,647) (Flat file format)
MTOSSI.MISC.LONGFLAT.DAF21.D202203 (N= 75,388,647) (Flat file format)
MTOSSI.MISC.EARN.FRERN21.D2203 (N= 215,656,407) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V1 (N= 75,388,647) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V2 (N= 75,388,647) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRERN.FL.V1 (N= 215,656,407) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF21.FINDER.COPYSSR

APPROXIMATE PROCESSING TIME: 14 hours 36 minutes 51 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm that number of records in copied files matches that of original files

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 6

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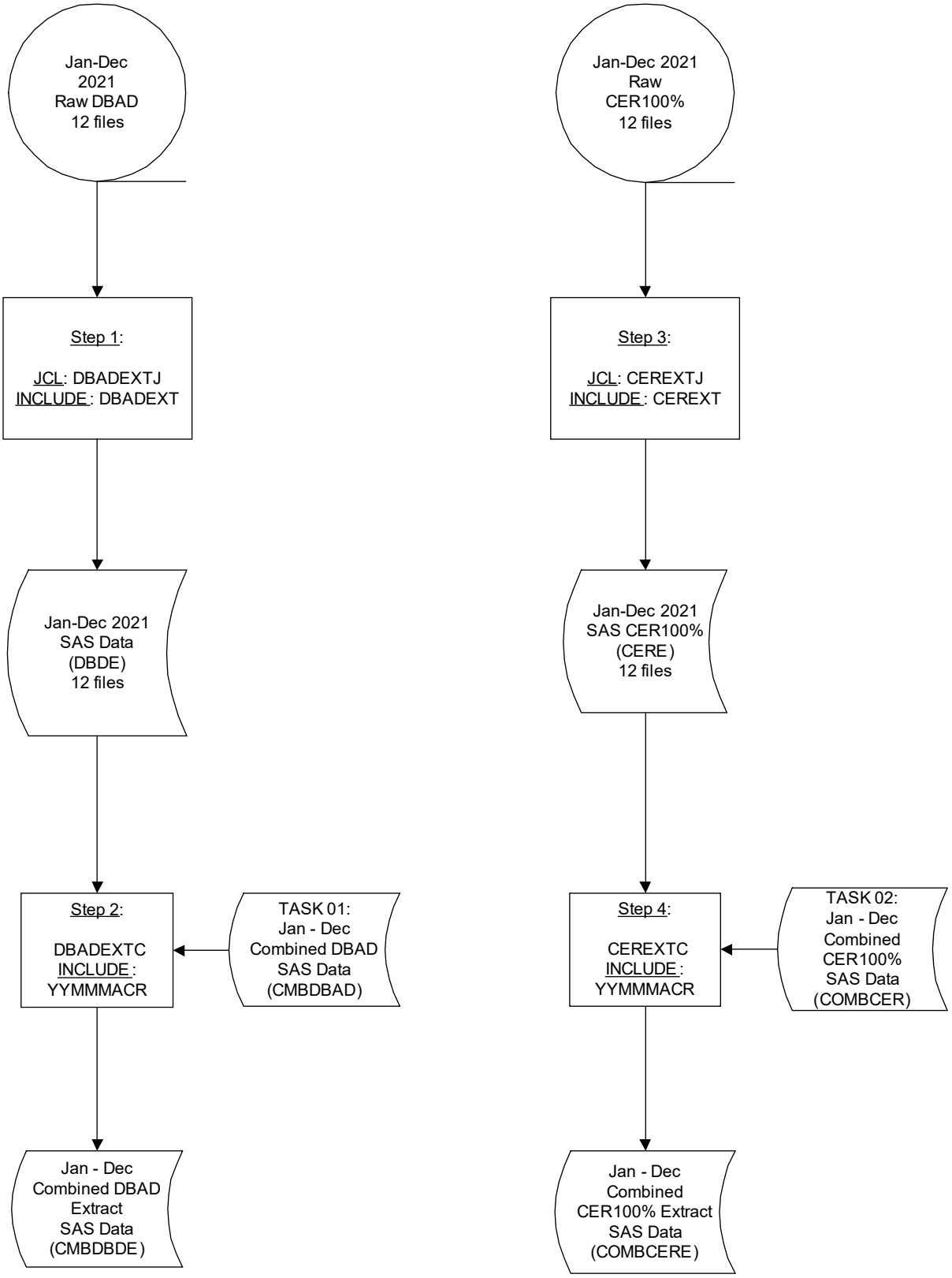
Task 4. CER and DBAD second pull



Task No.: 4	**Task Name:** CER and DBAD second Pull

Summary: The purpose of this task is to:

1. Extract the DBAD data a second time without finder restrictions applied
2. Extract the CER100% data a second time without finder restrictions applied.

Step 1

PURPOSE:
Assemble DBAD files by SAS loading 12 months of DBAD monthly extracts, without applying finder selection criteria. De-duplicate on SSN/BIC to keep all possible CANs for finders and all possible SSN/BIC combos for linking returned records.

DATE EXECUTED: 03/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(DBADEXTJ) (See Appendix A.20)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(DBADEXT) (See Appendix A.21)

INPUT(S):
MTOSSI.T2.DBADMBR.D21xx where xx=01 – 12 (N = see below) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DBD21xxE.SA.V1 where xx=01 – 12 (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.DBADEXT

APPROXIMATE PROCESSING TIME: 5 hours 56 minutes 48 seconds

QA:

- Confirm whether DBAD file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input record counts: check for reasonable trend in changes

# of Input Observations			
N	**DAF20**	**DAF21**	**PCT 21 vs 20**
1	59,088,245	60,052,552	1.63%
2	59,181,788	60,121,036	1.58%
3	59,299,300	60,211,819	1.54%
4	59,378,534	60,289,807	1.53%
5	59,462,653	60,373,198	1.53%
6	59,529,130	60,444,443	1.54%
7	59,591,020	60,513,005	1.55%
8	59,671,771	60,596,663	1.55%
9	59,750,926	60,652,990	1.51%
10	59,842,975	60,733,646	1.49%
11	59,906,887	60,783,143	1.46%
12	59,969,936	60,846,200	1.46%

- Year-to-year comparison of output record counts: check for reasonable trend in changes

# of Output Observations			
N	**DAF20**	**DAF21**	**PCT 21 vs 20**
1	18,147,256	18,026,398	-0.67%
2	18,175,258	18,008,052	-0.92%
3	18,183,350	17,990,152	-1.06%
4	18,183,775	17,949,502	-1.29%
5	18,142,767	17,924,058	-1.21%
6	18,154,033	17,932,988	-1.22%
7	18,139,670	17,930,664	-1.15%
8	18,104,259	17,946,639	-0.87%
9	18,108,067	17,972,508	-0.75%
10	18,099,877	17,995,407	-0.58%
11	18,054,955	17,990,069	-0.36%
12	17,975,169	17,958,959	-0.09%

Step 2

PURPOSE:
Combine the 12 monthly DBAD datafiles into one by merging with the combined DBAD file from finder processing.

DATE EXECUTED: 04/07/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(DBADEXTC) (See Appendix A.22)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CMBDBAD.SA.V1 (N=10,192,368) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DBD21xxE.SA.V1 where xx=01 – 12 (N = see output table from Step 1) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CMBDBDE.SA.V1 (N = 10,192,368) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.DBDEXTC

APPROXIMATE PROCESSING TIME: 00 hours 13 minutes 35 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	# obs	% change
DAF20	7,634,256	
DAF21	7,441,536	-2.52%

- Proc Contents Comparison of DBAD Extract output file to previous DAF year’s file

Step 3

PURPOSE:
Assemble CER100% files by SAS loading 12 months of CER100% file monthly extracts (January to December), without applying finder selection criteria. As each SSI record is listed under the beneficiary’s own SSN (PAN), use PAN as the SSN identifier for DAF.

DATE EXECUTED: 03/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(CEREXTJ) (See Appendix A.23)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(CEREXT) (See Appendix A.24)

INPUT(S):
MTOSSI.CER100.FIELD.D21xx where xx=01 – 12 (N = see below) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.CER21xxE.SA.V1 where xx=01 – 12 (N = see below) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.CEREXT

APPROXIMATE PROCESSING TIME: 01 hours 21 minutes 05 seconds

QA:

- Confirm whether CER file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input record counts: check for reasonable trend in changes

# of Input Observations			
N	**DAF20**	**DAF21**	**PCT 21 vs 20**
1	20,460,435	20,279,617	-0.88%
2	20,498,751	20,258,828	-1.17%
3	20,511,392	20,235,788	-1.34%
4	20,503,532	20,186,555	-1.55%
5	20,453,339	20,145,413	-1.51%
6	20,459,768	20,148,948	-1.52%
7	20,436,056	20,140,494	-1.45%
8	20,392,174	20,156,742	-1.15%
9	20,388,722	20,178,913	-1.03%
10	20,373,545	20,200,417	-0.85%
11	20,317,662	20,187,385	-0.64%
12	20,230,567	20,154,765	-0.37%

- Year-to-year comparison of output record counts: check for reasonable trend in changes

# of Output Observations			
N	**DAF20**	**DAF21**	**PCT 21 vs 20**
1	18,147,256	18,026,398	-0.67%
2	18,175,258	18,008,052	-0.92%
3	18,183,350	17,990,152	-1.06%
4	18,183,775	17,949,502	-1.29%
5	18,142,767	17,924,058	-1.21%
6	18,154,033	17,932,988	-1.22%
7	18,139,670	17,930,664	-1.15%
8	18,104,259	17,946,639	-0.87%
9	18,108,067	17,972,508	-0.75%
10	18,099,877	17,995,407	-0.58%
11	18,054,955	17,990,069	-0.36%
12	17,975,169	17,958,959	-0.09%

Step 4

PURPOSE:
Combine the 12 monthly CER100% datafiles into one by merging with the combined CER file from finder processing.

DATE EXECUTED: 08/19/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.PRDLIB(CEREXTC) (See Appendix A.25)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCER.SA.V1 (N=7,441,536)
OPDR.TG.PRD.ETTW.#6266.DAF21P.CER21xxE.SA.V1 where xx=01 – 12 (N=see output table from Step 3) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCERE.SA.V1 (N = 7,441,536) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6266.DAF21.CERDBAD.CEREXTC

APPROXIMATE PROCESSING TIME: 00 hours 10 minutes 15 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	# obs	% change
DAF20	7,634,256	
DAF21	7,441,536	-2.52%

- Proc Contents Comparison of DBAD Extract output file to previous DAF year’s file

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

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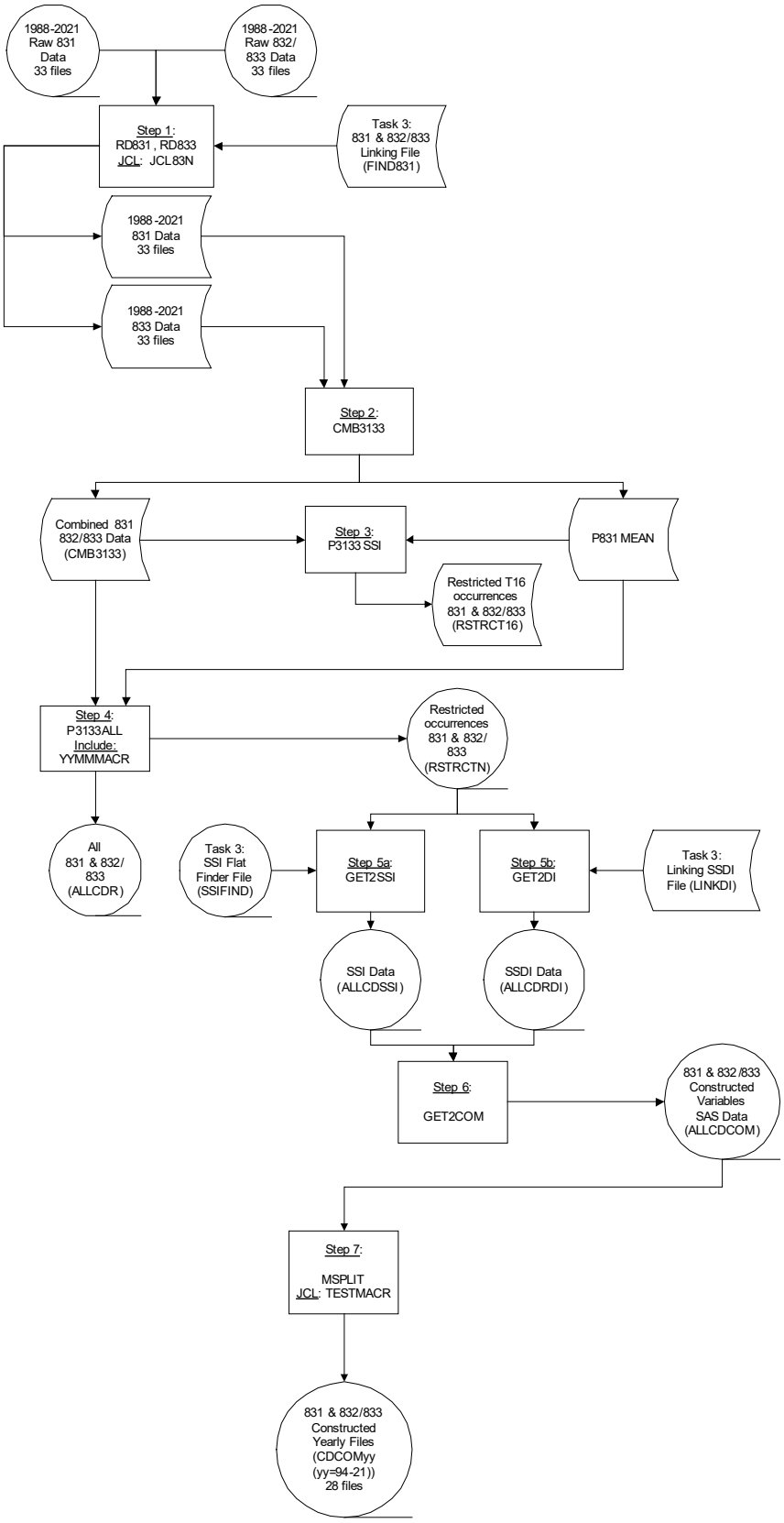
Task 5. Process 831 & 832/833 data



Task No.: 5	**Task Name:** Process 831 & 832/833 Data

Summary: The purpose of this task is to:

1. Read in, process, and combine the 831, 832 and 833 SSA Administrative data. This includes determining the number of adjudications per beneficiary and building historical variables for disability adjudication, diagnosis codes, MIE indicators, and levels of education.

Step 1

PURPOSE:
Read in 831 and 833 data for each year in the range of 1988 to 2021.

DATE EXECUTED: 03/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(JCL83N) (See Appendix A.26)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(RD831) (See Appendix A.27)
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(RD833) (See Appendix A.28)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.FIND831.SA.V1 (N= 38,555,294) (SAS file format)
AIS.F5750DDB.UNI831.CYyyyy where yyyy=1988-2020 (N= see table below) (Flat file format)
AIS.D5750030.UNI831.MONDAY.WEEK2164 (N= 2,942,529) (Flat file format)
AIS.F5750DDB.UNI833.CYyyyy where yyyy=1988-2020 (N= see table below) (Flat file format)
AIS.D5750030.UNI833.MONDAY.WEEK2164 (Flat file format) (N= 611,630)

Year	831 Yearly Input File # of Observations	833 Yearly Input File # of Observations
1988	2,455,980	514,007
1989	2,536,532	457,031
1990	2,741,896	203,648
1991	3,143,538	127,480
1992	4,199,417	96,849
1993	4,266,071	66,515
1994	4,383,757	108,111
1995	4,241,187	211,598
1996	4,088,121	374,110
1997	3,618,197	889,322
1998	3,360,401	968,126
1999	3,343,492	985,834
2000	3,341,003	1,077,344
2001	3,414,146	980,588
2002	3,713,856	1,013,927
2003	3,980,241	783,841
2004	4,135,925	778,709
2005	4,069,295	631,104
2006	4,022,964	327,633
2007	4,092,460	330,206
2008	4,233,217	272,014
2009	4,561,845	432,157
2010	5,136,049	416,502
2011	5,410,060	505,334
2012	4,991,084	537,924
2013	4,855,642	537,643
2014	4,447,210	802,863
2015	4,343,405	935,987
2016	3,956,307	1,150,416
2017	3,728,873	1,044,681
2018	3,467,879	1,102,946
2019	3,526,359	887,207
2020	3,164,798	484,354

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20.P831.Yyyyy where yyyy=1988-2021 (N= see table below) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.P833.Yyyyy where yyyy=1998-2021 (N= see table below) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.JCL83N

APPROXIMATE PROCESSING TIME: 0 hour 53 minutes 40 seconds

QA:

- Confirm whether the 831, 832 and 833 file layouts have changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

831 Number of observations in yearly output files

Yearly File	831 Output Observations			833 Output Observations		
	DAF20	DAF21	Rate 20 VS 21	DAF20	DAF21	Rate 20 VS 21
1988	1,336,387	1,338,803	0.18%	325,174	325,314	0.04%
1989	1,475,264	1,477,788	0.17%	319,689	319,838	0.05%
1990	1,709,454	1,712,456	0.18%	149,653	149,761	0.07%
1991	2,070,029	2,074,036	0.19%	99,050	99,117	0.07%
1992	2,883,808	2,890,561	0.23%	76,933	77,009	0.10%
1993	2,971,917	2,980,181	0.28%	57,668	57,713	0.08%
1994	3,051,465	3,061,406	0.33%	96,332	96,407	0.08%
1995	3,068,191	3,077,799	0.31%	192,081	192,243	0.08%
1996	3,144,962	3,153,552	0.27%	363,831	363,878	0.01%
1997	2,825,542	2,832,578	0.25%	881,331	881,340	0.00%
1998	2,632,373	2,638,935	0.25%	961,990	962,016	0.00%
1999	2,630,451	2,636,956	0.25%	970,462	970,466	0.00%
2000	2,659,589	2,666,151	0.25%	1,065,288	1,065,291	0.00%
2001	2,725,124	2,732,524	0.27%	971,102	971,105	0.00%
2002	2,942,968	2,952,429	0.32%	1,007,841	1,007,846	0.00%
2003	3,109,281	3,120,293	0.35%	780,725	780,730	0.00%
2004	3,160,453	3,173,306	0.41%	775,636	775,637	0.00%
2005	3,074,594	3,088,306	0.45%	628,484	628,488	0.00%
2006	3,018,601	3,032,828	0.47%	326,150	326,157	0.00%
2007	3,064,075	3,079,153	0.49%	328,935	328,946	0.00%
2008	3,161,117	3,177,499	0.52%	271,004	271,013	0.00%
2009	3,318,036	3,338,126	0.61%	430,236	430,256	0.00%
2010	3,577,759	3,605,243	0.77%	415,003	414,997	0.00%
2011	3,614,088	3,647,957	0.94%	503,527	503,515	0.00%
2012	3,222,088	3,257,877	1.11%	536,119	536,108	0.00%
2013	3,008,807	3,048,987	1.34%	535,533	535,528	0.00%
2014	2,682,456	2,725,122	1.59%	800,708	800,684	0.00%
2015	2,539,257	2,589,963	2.00%	934,060	934,036	0.00%
2016	2,262,152	2,320,251	2.57%	1,148,028	1,148,006	0.00%
2017	2,082,993	2,149,957	3.21%	1,041,700	1,041,676	0.00%
2018	1,872,919	1,952,767	4.26%	1,099,394	1,099,358	0.00%
2019	1,807,404	1,974,926	9.27%	883,981	883,939	0.00%
2020	1,231,167	1,632,608	32.61%	482,728	482,709	-0.00%
2021	-	1,121,756	-	-	609,659	-

Step 2

PURPOSE:
Combine 831 and 833 data for each year in the range of 1988 to 2021.

DATE EXECUTED: 03/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(CMB3133) (See Appendix A.29)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.Y&YEAR. (WHERE YEAR=1988-2021) (N = see output tables from Step #1) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.P833.Y&YEAR. (WHERE YEAR=1988-2021) (N = see output tables from Step #1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.CMB3133.SA.V1 (N= 110,333,766) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.MEAN.SA (N=1) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.CMB3133

APPROXIMATE PROCESSING TIME: 00 hour 21 minutes 37 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	OBS	RATE
DAF13	77,716,994	
DAF14	81,464,075	4.8%
DAF15	85,253,211	4.7%
DAF16	90,741,131	6.4%
DAF17	96,385,815	6.2%
DAF18	100,331,844	4.01%
DAF19	104,220,302	3.87%
DAF20	107,395,147	3.04%
DAF21	110,333,776	2.77%

Step 3

PURPOSE:
Process 831/833 data for SSI beneficiaries

DATE EXECUTED: 03/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(P3133SSI) (See Appendix A.30)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.CMB3133.SA.V1
(WHERE RID IN ('R', 'S')) (N= 57,158,844) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.MEAN.SA (N=1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.RSTRCT16.SA.V1 (N= 23,398,934) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.P3133SSI

APPROXIMATE PROCESSING TIME: 00 hour 09 minutes 03 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of input and output observation counts: check for reasonable trend in changes

	INPUT OBS	OUTPUT OBS	RATE
DAF13	38,581,668	16,872,514	
DAF14	40,455,641	17,551,185	4.0%
DAF15	42,456,809	18,206,955	3.7%
DAF16	46,128,169	19,801,717	8.8%
DAF17	49,862,689	21,151,382	6.8%
DAF18	51,972,888	21,772,869	2.3%
DAF19	54,027,772	22,408,246	2.9%
DAF20	55,638,815	22,945,167	2.4%
DAF21	57,158,844	23,398,934	1.98%

Step 4

PURPOSE:
Process 831/833 data for all beneficiaries.

DATE EXECUTED: 03/23/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(P3133ALL) (See Appendix A.31)

INCLUDED SAS PROGRAM(S):
YYMMMACR from DAF21 Utility Library (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.CMB3133.SA.V1 (N= 110,333,766) (SAS file format)

OPDR.TG.PRD.ETTW.#6502.DAF21.P831.MEAN.SA (N=1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDR.SA.V1 (N= 38,079,519) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.RSTRCTN.SA.V1 (N= 38,079,519) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.P3133ALL

APPROXIMATE PROCESSING TIME: 14 hours 32 minutes 42 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input and output observation counts: check for reasonable trend in changes

	INPUT OBS	OUTPUT OBS	RATE
DAF13	77,716,994	27,815,876	
DAF14	81,464,075	28,996,763	4.25%
DAF15	85,253,211	30,142,454	3.95%
DAF16	90,741,131	32,222,794	6.9%
DAF17	96,385,815	34,043,718	5.6%
DAF18	100,331,844	35,123,161	3.2%
DAF19	104,220,302	36,248,096	3.2%
DAF20	107,395,147	37,228,371	2.7%
DAF21	110,333,766	38,079,519	2.3%

Step 5

PURPOSE:
Create 831/833 data for SSI beneficiaries.

DATE EXECUTED: 03/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(GET2SSI) (See Appendix A.32)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.RSTRCTN.SA.V1 (WHERE PROGRAM IN (2, 3)) (N= 23,422,175) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.FL.V1 (N= 21,558,767) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDSSI.SA.V1 (N= 20,092,347) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.GET2SSI

APPROXIMATE PROCESSING TIME: 01 hour 30 minutes 04 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	OBS	RATE
DAF13	14,115,346	
DAF14	14,726,815	4.3%
DAF15	15,315,947	4.0%
DAF16	16,845,626	10%
DAF17	18,131,355	7.6%
DAF18	18,680,101	3%
DAF19	19,239,962	3.0%
DAF20	19,704,677	2.4%
DAF21	20,092,347	1.97%

Step 6

PURPOSE:
Create 831/833 data for DI beneficiaries.

DATE EXECUTED: 03/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(GET2DI) (See Appendix A.33)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.RSTRCTN.SA.V1 (WHERE PROGRAM IN (1, 2))
(N= 26,729,979) (SAS file format)

OPDR.TG.PRD.ETTW.#6266.DAF21P.LINKDI.SA.V1 (N= 25,369,154) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDRDI.SA.V1 (N= 23,040,986) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.GET2DI

APPROXIMATE PROCESSING TIME: 04 hour 38 minutes 59 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	OBS	RATE
DAF13	17,503,974	
DAF14	18,276,856	4.99%
DAF15	19,184,652	4.97%
DAF16	19,738,480	2.89%
DAF17	20,446,029	3.58%
DAF18	21,131,828	3.35%
DAF19	21,837,928	3.34%
DAF20	22,481,699	2.86%
DAF21	23,040,986	2.49%

Step 7

PURPOSE:
Combine SSI and DI 831/833 data.

DATE EXECUTED: 03/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(GET2COM) (See Appendix A.34)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDRDI.SA.V1 (N= 23,040,986) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDSSI.SA.V1 (N= 20,092,347) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.ALLCDCOM.SA.V1 (N= 35,842,400) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.GET2COM

APPROXIMATE PROCESSING TIME: 02 hours 01 minutes 38 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

Contents comparison available at 'OPDR.TG.PRD.ETTW.#6502.DAF21.P831.CONCOMP'

	OBS	RATE
DAF13	26,282,745	
DAF14	27,384,946	4.19%
DAF15	28,451,054	3.89%
DAF16	30,457,388	7.05%
DAF17	32,190,977	5.69%
DAF18	33,192,252	3.11%
DAF19	34,202,993	3.05%
DAF20	35,081,137	2.57%
DAF21	35,842,400	2.17%

- Proc Contents Comparison of Combined DBAD output file to previous DAF year's file

Step 8

PURPOSE:
Split the combined file into yearly files (1994-2021).

DATE EXECUTED: 03/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(SP831833) (See Appendix A.35)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.ALLCDCOM.SA.V1 (N= 35,081,137) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.CDCOMyy.SA.V1 (N= 35,081,137) (SAS file format)
(yy = 94 – current DAF year)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.P831.MSPLIT

APPROXIMATE PROCESSING TIME: 14 hours 08 minutes 15 seconds

QA:
Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
Formal code review
Confirm that number of observations in yearly output files is the same as the combined input file

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 9

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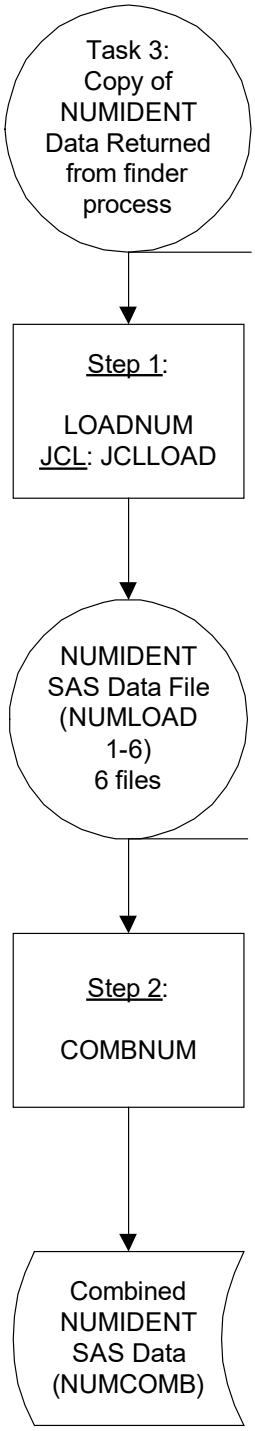
Task 6. Process NUMIDENT data



Task No.: 6	**Task Name:** Process NUMIDENT Data

Summary: The purpose of this task is to:
1. Create a finder file to submit to SSA staff for SSDI data.

Step 1

PURPOSE:
Convert the NUMIDENT raw data file into 6 SAS files.

DATE EXECUTED: 04/20/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.NUM.PRDLIB(JCLLOAD) (See Appendix A.36)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.NUM.PRDLIB(LOADNUM) (See Appendix A.37)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.NUMI.FL.V1 (N=139,329,983) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD1.SA.V1 (N= 23,997,345) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD2.SA.V1 (N= 23,997,198) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD3.SA.V1 (N= 23,996,761) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD4.SA.V1 (N= 23,996,230) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD5.SA.V1 (N= 23,995,101) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD6.SA.V1 (N= 19,327,416) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.NUM.JCLLOAD

APPROXIMATE PROCESSING TIME: 00 hours 45 minutes 26 seconds

QA:
- Confirm whether DBAD file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 2

PURPOSE:
Combine the 6 sections of the NUMIDENT SAS files into 1 SAS file.

DATE EXECUTED: 04/18/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.NUM.PRDLIB(COMBNUM) (See Appendix A.38)

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD1.SA.V1 (N= 23,997,345) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD2.SA.V1 (N= 23,997,198) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD3.SA.V1 (N= 23,996,761) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD4.SA.V1 (N= 23,996,230) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD5.SA.V1 (N= 23,995,101) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21.NUMLOAD6.SA.V1 (N= 19,327,416) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.NUMCOMB.SA.V1 (N = 37,520,013) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.NUM.COMBNUM

APPROXIMATE PROCESSING TIME: 00 hours 16 minutes 16 seconds

QA:

- Confirm whether DBAD file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21	Rate	
				19 VS 20	20 VS 21
NUMIDENT (FINAL)	35,883,761	36,760,077	37,520,013	2.44%	2.07%
NUMIDENT RETURN	131,238,998	135,318,550	139,310,051	3.11%	2.94%
MASTERFIND	35,887,308	36,763,626	37,523,560	2.44%	2.07%

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

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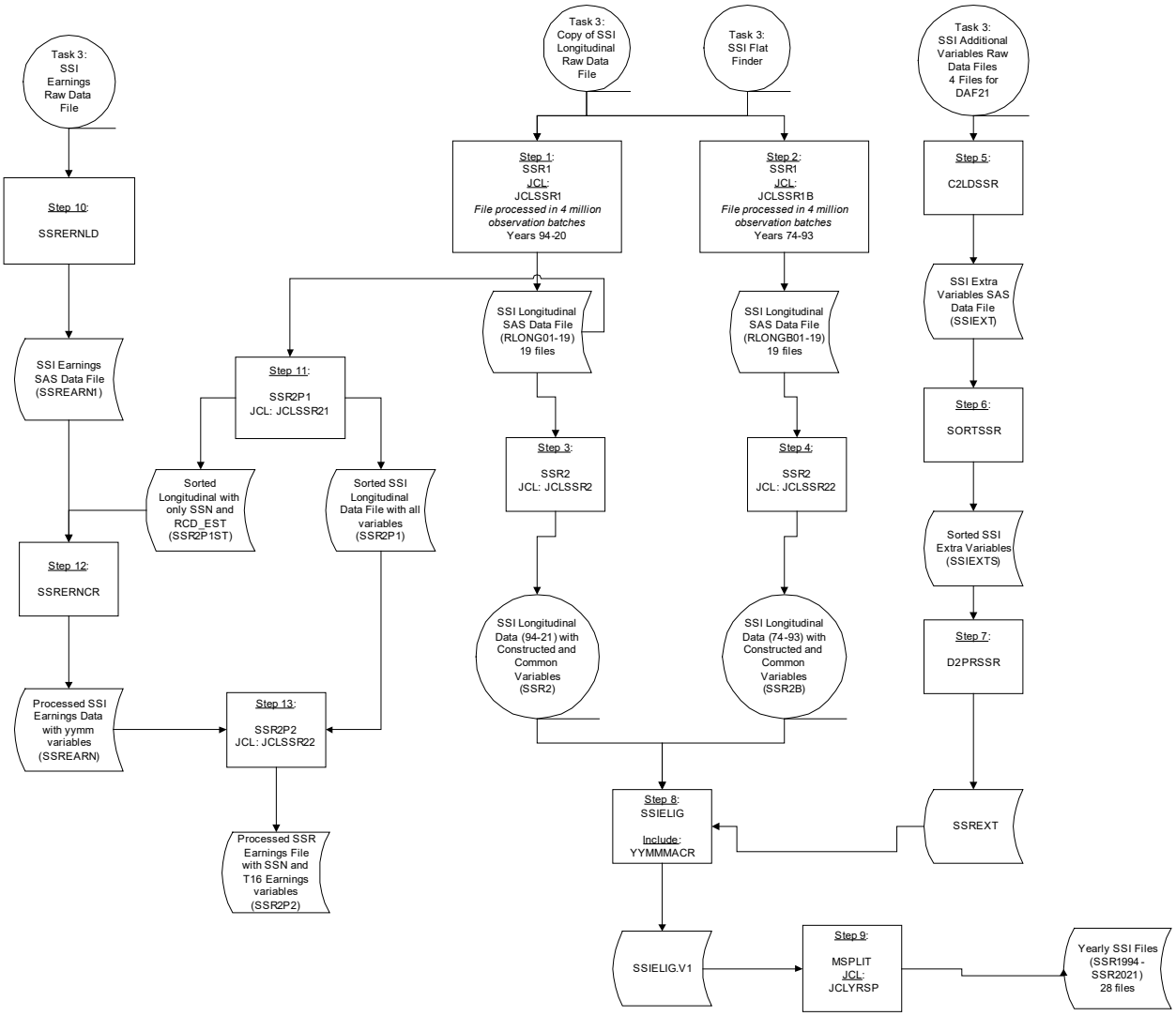
Task 7. Process SSR data



Task No.: 7	**Task Name:** Process SSR Data

Summary: The purpose of this task is to:

1. Process SSI Longitudinal File:
   a. Read return file in multiple segments, combine the segments into one file, and collapse all the data to create a dataset with one record per beneficiary. This is done for years 1994-DAF Year and again for years 1974-1993.
   b. Identify the month and year when a beneficiary is first eligible to receive benefits both overall all and as an adult (after 18 years of age).
   c. Split processed longitudinal data into yearly files
2. Process SSR additional variables file:
   a. Read return file collapsing the data to create a dataset with one record per beneficiary
   b. Construct student income indicator
3. Process SSR Earning variables file:
   a. Read return file collapsing the data to create a dataset with one record per beneficiary

Step 1

PURPOSE:
SAS load the SSI Longitudinal File returned from the finder process for years 1994-2020. Due to file size, the longitudinal file is read into SAS with multiple segments that divides the file into 4 million record sections.

DATE EXECUTED: 05/02/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR1) (See Appendix A.39)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR1) (See Appendix A.40)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V1 (N =75,388,647) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.SA.V1 (N=21,558,767) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG01.SA.V1 (N= 2,606,080) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG02.SA.V1 (N= 2,604,979) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG03.SA.V1 (N= 2,603,900) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG04.SA.V1 (N= 2,605,584) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG05.SA.V1 (N= 2,611,874) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG06.SA.V1 (N= 2,600,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG07.SA.V1 (N= 2,601,963) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG08.SA.V1 (N= 2,600,309) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG09.SA.V1 (N= 2,596,555) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG10.SA.V1 (N= 2,592,163) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG11.SA.V1 (N= 2,609,488) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG12.SA.V1 (N= 2,600,611) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG13.SA.V1 (N= 2,618,989) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG14.SA.V1 (N= 2,627,730) (SAS file format)

OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG15.SA.V1 (N= 2,581,250) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG16.SA.V1 (N= 2,555,204) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG17.SA.V1 (N= 2,585,543) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG18.SA.V1 (N= 2,605,975) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG19.SA.V1 (N= 2,191,045) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR1S1 (segments 1-19)

APPROXIMATE PROCESSING TIME: 73 HRS 49 MINS 09 SECS

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

segment	DAF19	DAF20	DAF21	% difference 19-20	% difference 20-21
1	2,604,625	2,606,751	2,606,080	0.08%	-0.026%
2	2,600,570	2,602,388	2,604,979	0.07%	0.100%
3	2,609,804	2,607,068	2,603,900	-0.10%	-0.122%
4	2,596,204	2,612,404	2,605,584	0.62%	-0.261%
5	2,588,902	2,600,092	2,611,874	0.43%	0.453%
6	2,589,936	2,594,161	2,600,539	0.16%	0.246%
7	2,599,839	2,589,327	2,601,963	-0.40%	0.488%
8	2,635,668	2,608,391	2,600,309	-1.03%	-0.310%
9	2,536,498	2,601,211	2,596,555	2.55%	-0.179%
10	2,580,132	2,632,136	2,592,163	2.02%	-1.519%
11	2,602,358	2,576,320	2,609,488	-1.00%	1.287%
12	2,605,188	2,549,337	2,600,611	-2.14%	2.011%
13	2,599,433	2,607,579	2,618,989	0.31%	0.438%
14	2,591,905	2,602,838	2,627,730	0.42%	0.956%
15	2,585,345	2,605,308	2,581,250	0.77%	-0.923%
16	2,600,568	2,606,679	2,555,204	0.23%	-1.975%
17	2,629,315	2,601,360	2,585,543	-1.06%	-0.608%
18	2,564,866	2,594,146	2,605,975	1.14%	0.456%
19	71,692	1,090,908	2,191,045	1421.66%	100.846%

Step 2

PURPOSE:
SAS load the SSI Longitudinal File returned from the finder process for years 1974-1993. Due to file size, the longitudinal file is read into SAS with multiple segments that divides the file into 4 million record sections.

DATE EXECUTED: 05/06/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR1B) (See Appendix A.41)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR1) (See Appendix A.40)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRLONG.FL.V1 (N =75,388,647) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.SA.V1 (N=21,558,767) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB01.SA.V1 (N= 2,606,080) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB02.SA.V1 (N= 2,604,979) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB03.SA.V1 (N= 2,603,900) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB04.SA.V1 (N= 2,605,584) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB05.SA.V1 (N= 2,611,874) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB06.SA.V1 (N= 2,600,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB07.SA.V1 (N= 2,601,963) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB08.SA.V1 (N= 2,600,309) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB09.SA.V1 (N= 2,596,555) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB10.SA.V1 (N= 2,592,163) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB11.SA.V1 (N= 2,609,488) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB12.SA.V1 (N= 2,600,611) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB13.SA.V1 (N= 2,618,989) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB14.SA.V1 (N= 2,627,730) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB15.SA.V1 (N= 2,581,250) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB16.SA.V1 (N= 2,555,204) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB17.SA.V1 (N= 2,585,543) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB18.SA.V1 (N= 2,605,975) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB19.SA.V1 (N= 2,191,045) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR1B1 (segments 1-13)
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR1B2 (segments 14-19)

APPROXIMATE PROCESSING TIME:
RLONGB01-RLONGB13: 35 HRS 42 MINS 31 SECS
RLONGB14-RLONGB19: 32 HRS 14 MINS 52 SECS

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Confirm that that number of output record counts are the same as from Step #1

Step 3

PURPOSE:

- Combine segments from Step 1 into a single file
- Sort each segment by SSN and RCD_EST (the record establishment date) then combine by interleaving by SSN and RCD_EST. This ensures that the records for a given beneficiary are grouped and sorted by the date of their appearance in the data.
- Collapse SSI Longitudinal records to one record per SSN format with monthly variables from 1994-DAF Year
- Create flags identifying yearly SSI benes 1994-DAF Year

DATE EXECUTED: 05/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR2) (See Appendix A.42)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR2) (See Appendix A.44)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG01.SA.V1 (N= 2,606,080) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG02.SA.V1 (N= 2,604,979) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG03.SA.V1 (N= 2,603,900) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG04.SA.V1 (N= 2,605,584) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG05.SA.V1 (N= 2,611,874) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG06.SA.V1 (N= 2,600,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG07.SA.V1 (N= 2,601,963) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG08.SA.V1 (N= 2,600,309) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG09.SA.V1 (N= 2,596,555) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG10.SA.V1 (N= 2,592,163) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG11.SA.V1 (N= 2,609,488) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG12.SA.V1 (N= 2,600,611) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG13.SA.V1 (N= 2,618,989) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG14.SA.V1 (N= 2,627,730) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG15.SA.V1 (N= 2,581,250) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG16.SA.V1 (N= 2,555,204) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG17.SA.V1 (N= 2,585,543) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG18.SA.V1 (N= 2,605,975) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG19.SA.V1 (N= 2,191,045) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2.SA.V1 (N= 21,557,838)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR2R1

APPROXIMATE PROCESSING TIME: 26 HRS 34 MINS 14 SECS

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

DAF 14:	16,114,422	4.01% increase
DAF 15:	16,713,426	3.72% increase
DAF 16:	1 8,257,933	9.24% increase
DAF 17:	19,589,322	7.29% increase
DAF 18:	20,144,016	2.83% increase
DAF 19:	20,705,278	2.79% increase
DAF 20:	21,169,017	2.24% increase
DAF 21:	21,557,838	1.84% increase

Step 4

PURPOSE:

- Combine segments from Step 2 into a single file
- Sort each segment by SSN and RCD_EST (the record establishment date) then combine by interleaving by SSN and RCD_EST. This ensures that the records for a given beneficiary are grouped and sorted by the date of their appearance in the data.
- Collapse SSI Longitudinal records to one record per SSN format with monthly variables from 1994-DAF Year
- Create flags identifying yearly SSI benes 1974-1993

DATE EXECUTED: 05/16/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR2B) (See Appendix A.43)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR2) (See Appendix A.44)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB01.SA.V1 (N= 2,606,080) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB02.SA.V1 (N= 2,604,979) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB03.SA.V1 (N= 2,603,900) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB04.SA.V1 (N= 2,605,584) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB05.SA.V1 (N= 2,611,874) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB06.SA.V1 (N= 2,600,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB07.SA.V1 (N= 2,601,963) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB08.SA.V1 (N= 2,600,309) (SAS file format)

OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB09.SA.V1 (N= 2,596,555) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB10.SA.V1 (N= 2,592,163) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB11.SA.V1 (N= 2,609,488) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB12.SA.V1 (N= 2,600,611) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB13.SA.V1 (N= 2,618,989) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB14.SA.V1 (N= 2,627,730) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB15.SA.V1 (N= 2,581,250) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB16.SA.V1 (N= 2,555,204) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB17.SA.V1 (N= 2,585,543) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB18.SA.V1 (N= 2,605,975) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONGB19.SA.V1 (N= 2,191,045) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2B.SA.V1 (N = 21,557,838)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR2R2

APPROXIMATE PROCESSING TIME: 22 HR 38 MIN 41 SEC

QA:
Same as Step 3

Step 5

PURPOSE:

- Combine SSR Additional Variables files limiting it to records with computation months in the DAF reporting period (1994-DAF Year)

DATE EXECUTED: 05/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(STKSTUDM) (See Appendix A.45)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
AIS.P1252.ADVRSAS.AVR21.D2203.FILE1A (N=854,365,731) (SAS file format)
AIS.P1252.ADVRSAS.AVR21.D2203.FILE2A (N=854,247,021) (SAS file format)
AIS.P1252.ADVRSAS.AVR21.D2203.FILE3A (N=854,119,422) (SAS file format)
AIS.P1252.ADVRSAS.AVR21.D2203.FILE4A (N=854,095,755) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.STKSTD.SA.V1 (N = 2,868,083,718) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.STKSTUDM

APPROXIMATE PROCESSING TIME: 2 HR 5 MIN 0 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

DAF15: 2,062,339,644
DAF16: 2,242,368,612 (8.73% increase)
DAF17: 2,394,643,797 (6.79% increase)
DAF18: 2,516,610,660 (5.09% increase)
DAF19: 2,638,345,671 (4.84% increase)
DAF20: 2,756,265,402 (4.47% increase)
DAF21: 2,868,083,718 (4.06% increase)

Step 6

PURPOSE:

- Sort the SSI additional variable files in multiple segments by SSN, record establishment dates, and computation months.
- Combine the sorted files into one single file.

DATE EXECUTED: 05/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SORTSSR) (See Appendix A.46)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.STKSTD.SA.V1 (N= 2,868,083,718) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIEXTS.SA.V1 (N= 2,868,083,718) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SORTSSR

APPROXIMATE PROCESSING TIME: 6 HR 38 MIN 14 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of input and output observations are the same

Step 7

PURPOSE:

- Create a new set of yymm variables (DEEMINCyymm, DEEMCDyymm, BMFyymm, FCIyymm, and PROFACyymm) using the value of computation month, and keep one record per SSN by selecting the latest established record.

DATE EXECUTED: 05/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(D2PRSSR) (See Appendix A.47)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIEXTS.SA.V1 (N= 2,868,083,718) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREXT.SA.V1 (N=23,323,883) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.D2PRSSR

APPROXIMATE PROCESSING TIME: 3 HR 34 MIN 14 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

  DAF15: 18,455,612
  DAF16: 19,942,316 (~ 8% increase)
  DAF17: 21,169,911 (6.16% increase)
  DAF18: 21,777,439 (2.87% increase)
  DAF19: 22,390,078 (2.81% increase)
  DAF20: 22,897,725 (2.27% increase)
  DAF21: 23,323,883 (1.86% increase)

Step 8

PURPOSE:

- Create SSI Eligibility date variables by using the PSTA, birth, and death dates for beneficiaries in the SSI Longitudinal file from 1974 to the current DAF year. Identify the month and year when a beneficiary is first eligible to receive benefits and identify

the month and year when a beneficiary is first eligible to receive benefits after they are 18 years of age.
- Build the most recent PSTA value indicator and month of most recent PSTA value (PSTA MR)
- Merge SSI Longitudinal and SSR Additional Variables files

DATE EXECUTED: 05/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSIELIG) (See Appendix A.48)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2.SA.V1 (N= 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2B.SA.V1 (N = 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREXT.SA.V1 (N=23,323,883) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N=21,557,838) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG

APPROXIMATE PROCESSING TIME: 18 HR 31 MIN 58 SEC

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that number of observations in the output file matches that of the Longitudinal input files
- Check the level of missingness of the Date_error variable (which checks that SSIELIG_ADULT is not before SSIELIG_FIRST is never flagged) in the SAS lst output and compare with trends from previous DAF years:
  - DAF15: Missing for ~12% of observations
  - DAF16: Missing for ~16% of observations (because we added records that wouldn’t have SSIELIG_ADULT)
  - DAF17: Missing for 19.78% (because we added more children that wouldn’t have SSIELIG_ADULT)
  - DAF18: Missing for 19.56%
  - DAF19: Missing for 19.36%
  - DAF20: Missing for 19.27%
  - DAF21: Missing for 18.9%
- Proc Contents Comparison of SSIELIG output file to previous DAF year’s file
- Compare means of key SSI Longitudinal variables from current DAF to previous DAF

Step 9

PURPOSE:
Split the SSI Longitudinal file with SSR additional variables merged in (from Step 8) into yearly files

DATE EXECUTED: 05/25/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLYRSP) (See Appendix A.49)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N=21,557,838) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1994.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1995.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1996.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1997.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1998.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR1999.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2000.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2001.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2002.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2003.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2004.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2005.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2006.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2007.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2008.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2009.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2010.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2011.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2012.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2013.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2014.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2015.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2016.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2017.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2018.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2019.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2020.SA.V1 (N=21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2021.SA.V1 (N=21,557,838) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.JCLYRSP

APPROXIMATE PROCESSING TIME: 5 HR 31 MIN 19 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Confirm that number of observations in the yearly output file matches that of the full SSIELIG input file

Step 10

PURPOSE:

- Load SSI earning variable file from flat text file to SAS format and sort the file by SSN and RCD_EST.

DATE EXECUTED: 05/26/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSRERNLD) (See Appendix A.50)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.SSRERN.FL.V1 (N = 215,656,407) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREARN1.V1 (N = 215,656,407) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSRERNLD

APPROXIMATE PROCESSING TIME: 00 hours 45 minutes 39 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of records in the output file matches that of the input file
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	Record count	Unique PAN count	% change count	% change PAN
DAF17	189,491,711	8,152,852		
DAF18	196,571,515	8,428,809	3.74%	3.38%
DAF19	203,879,187	8,709,088	3.72%	3.33%
DAF20	209,622,216	8,942,558	2.82%	2.68%
DAF21	215,656,407	9,166,163	2.88%	2.5%

- Check the cross frequency of LAPSE (computed as IEASTOP – IEASTART) by IEFRQ and confirm that negative LAPSE is associated with IEFRQ = “C” and 0/positive LAPSE is associated with IEFRQ = “N” or “T”.
- Check that all values in the proc means of IEAMT are all positive
- Check the cross frequency of IEAMT by IETYP shows all positive amounts and no missing IETYPE
- Compare the printout of 10 random obs to that from the last DAF and confirm that it looks similar

Step 11

PURPOSE:

- Sort and combine the 1994-current DAF year SSI Longitudinal File segments (from Step 1) into 2 files: one file sorted by SSN and RCD_EST (containing all variables), and one file sorted by SSN and descending RCD_EST (containing just these two variables).
- Obtain the latest Record Establishment Date per beneficiary from the SSI Longitudinal File to facilitate backing out of carried forward earnings.

DATE EXECUTED: 05/26/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR21) (See Appendix A.51)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR2P1) (See Appendix A.52)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG01.SA.V1 (N= 2,606,080) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG02.SA.V1 (N= 2,604,979) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG03.SA.V1 (N= 2,603,900) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG04.SA.V1 (N= 2,605,584) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG05.SA.V1 (N= 2,611,874) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG06.SA.V1 (N= 2,600,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG07.SA.V1 (N= 2,601,963) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG08.SA.V1 (N= 2,600,309) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG09.SA.V1 (N= 2,596,555) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG10.SA.V1 (N= 2,592,163) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG11.SA.V1 (N= 2,609,488) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG12.SA.V1 (N= 2,600,611) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG13.SA.V1 (N= 2,618,989) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG14.SA.V1 (N= 2,627,730) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG15.SA.V1 (N= 2,581,250) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG16.SA.V1 (N= 2,555,204) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG17.SA.V1 (N= 2,585,543) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG18.SA.V1 (N= 2,605,975) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.RLONG19.SA.V1 (N= 2,191,045) (SAS file format)

OUTPUT(S):
All variables, sorted by SSN and ascending RCD_EST
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P1.SA.V1 (N= 48,999,781) (SAS file format)
2 variables, sorted by SSN and descending RCD_EST, latest RCD_EST for each SSN kept
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P1ST.SA.V1 (N= 48,997,496) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR2P1

APPROXIMATE PROCESSING TIME: 10 HR 02 MIN 44 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

  SSR2P1 Output
  DAF19 - 46,792,848
  DAF20 - 47,888,404 – 2.34% change
  DAF21 - 48,999,781 – 2.32% change

  SSR2P1ST Output
  DAF19 – 46,790,634
  DAF20 – 47,886,160 – 2.34% change
  DAF21 - 48,997,496 – 2.32% change

Step 12

PURPOSE:

- Create a new set of yymm earnings variables (T16GRSAMT, T16EXLAMT, T16BEXPAMT, T16EXPAMT, T16SEAMT, T16NETAMT, T16PASAMT, T16VERCD) from the earnings file (from Step 10) and merge with SSN-descending RCD_EST SSI Longitudinal file (from Step 11) to keep one record at the SSN-RCD_EST level
- Back out carried forward earnings

DATE EXECUTED: 05/27/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSRERNCR) (See Appendix A.53)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREARN1.V1 (N = 215,656,407) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P1ST.SA.V1 (N= 48,997,496) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREARN.SA.V1 (N=12,143,519) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSRERNCR

APPROXIMATE PROCESSING TIME: 14 HR 36 MIN 20 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

  SSREARN Output
  DAF19: 11,470,973
  DAF20: 11,815,001 (3.00% change)
  DAF21: 12,143,519 (2.78% change)

Step 13

PURPOSE:

- Merge with the SSN-RCD EST SSI Longitudinal file to collapse the SSR Earnings file to one record per SSN.

DATE EXECUTED: 05/29/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(JCLSSR22) (See Appendix A.54)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.PRDLIB(SSR2P2) (See Appendix A.55)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P1.SA.V1 (N=48,999,781) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSREARN.SA.V1 (N=12,143,519) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P2.SA.V1 (N=8,697,363) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.SSR.SSR2P2

APPROXIMATE PROCESSING TIME: 18 HR 02 MIN 19 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”

- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

  SSR2P2 Output
  DAF19: 8,242,035
  DAF20: 8,474,174 (2.82% change)
  DAF21: 8,697,363 (2.78% change)

- Proc Contents Comparison of SSI Earnings output file to previous DAF year's file
- Compare means of key SSI Earnings variables from current DAF to previous DAF

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 6

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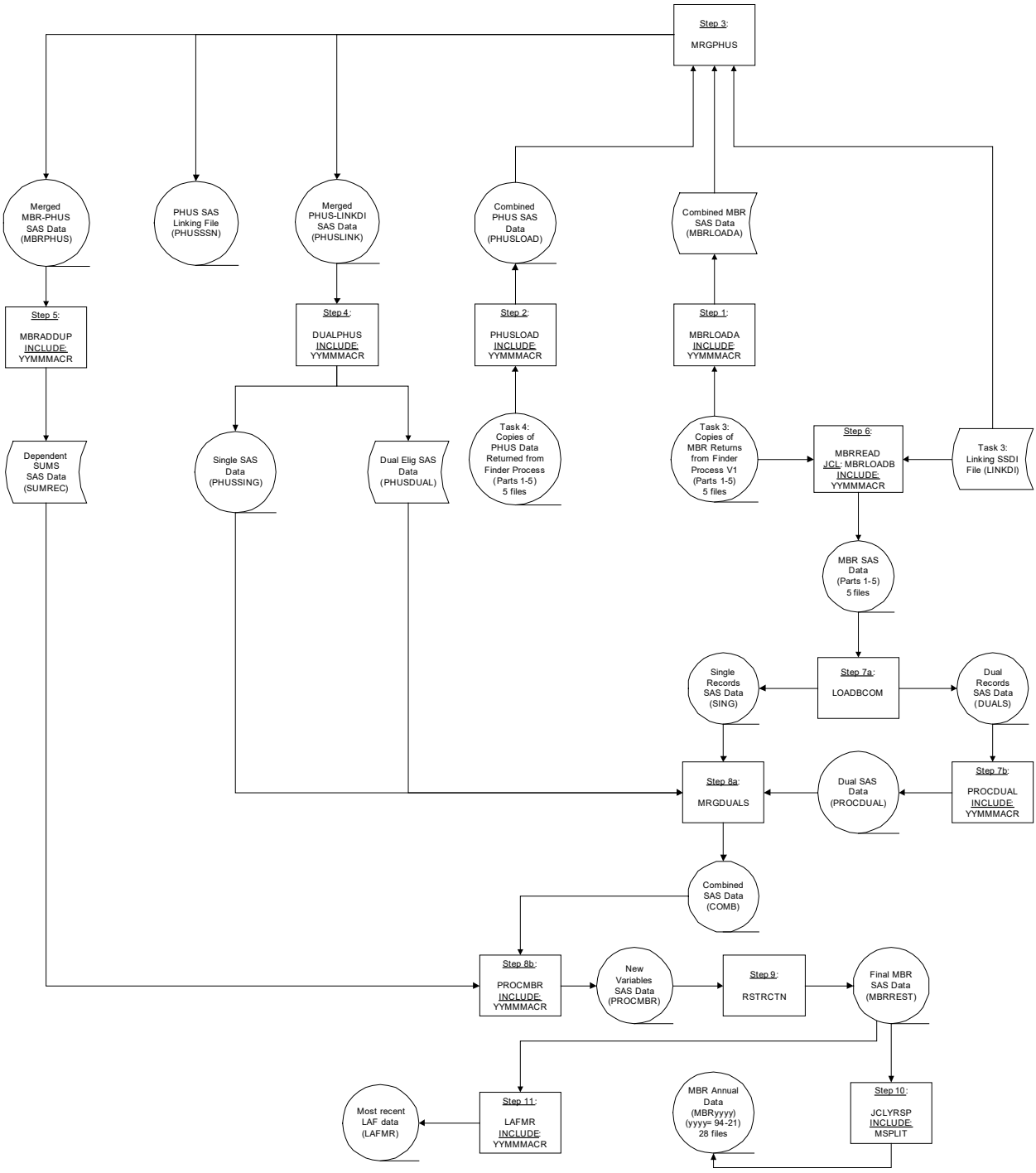
Task 8. Process MBR data



Task No.: 8	**Task Name:** Process MBR Data

Summary: The purpose of this task is to:

1. Read in MBR raw data in order to compute the auxiliary payment amounts (PAYO), the auxiliary due amounts (DUEO), and the number of dependents (DPEN), and add the auxiliary records to primary beneficiary records.
2. Read in MBR data, keeping all variables and subset to records in the linking file.
3. Combine all records and output two files: a file of single records and a file of dual eligible beneficiaries (multiple records).
4. Attach the single and dual PHUS data to the files.

Step 1

PURPOSE:

- Compile the MBR raw data and save it as MBR SAS data.
- Take the five MBR SAS data sets and combine them into one file.

DATE EXECUTED: 03/29/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MBRLOADA) (See Appendix A.56)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F1.R220329 (OBS = 8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F2.R220329 (OBS = 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F3.R220329 (OBS = 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F4.R220329 (OBS = 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F5.R220329 (OBS = 8,975,430) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBRLOADA.SA.V1 (OBS= 44,881,905) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.MBRLOADA

APPROXIMATE PROCESSING TIME: 06 HR 15 MIN 06 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
MBR	42,858,047	43,939,548	44,881,905

	Rate	
	19 VS 20	20 VS 21
MBR	2.52%	2.14%

Step 2

PURPOSE:

- Compile the PHUS raw data and save them as PHUS SAS data.
- Take the five PHUS SAS data sets and combine them into one file.

DATE EXECUTED: 04/07/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(PHUSLOAD) (See Appendix A.57)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F1.R220329 (OBS = 8,798,955) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F2.R220329 (OBS = 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F3.R220329 (OBS = 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F4.R220329 (OBS = 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.PHUS.F5.R220329 (OBS = 8,975,430) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSLOAD.SA.V1 (OBS= 44,881,905) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PHUSLOAD

APPROXIMATE PROCESSING TIME: 14 HR 4 MIN 51 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
PHUS	42,858,047	43,939,548	44,881,905

	Rate	
	19 VS 20	20 VS 21
PHUS	2.52%	2.14%

Step 3

PURPOSE:

- Merge the PHUS data with the MBR data output created in programming steps 1 and 2 to prepare for adding up the dependent amounts of the primaries.
- Merge PHUS SAS data with the LINKDI File.

DATE EXECUTED: 04/08/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MRGPHUS) (See Appendix A.58)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBRLOADA.SA.V1 (OBS=44,881,905) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSLOAD.SA.V1 (OBS=44,881,905) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.LINKDI.SA.V1 (OBS=25,369,154) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBRPHUS.SA.V1 (OBS=44,881,905) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSSSN.SA.V1 (OBS=44,350,781) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSLINK.SA.V1 (OBS=25,093,449) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.MRGPHUS

APPROXIMATE PROCESSING TIME: 16 HR 11 MIN 00 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
MRGPHUS	42,858,047	43,939,548	44,881,905
PHUSSSN	42,329,352	43,409,505	44,350,781
LINKPHUS	23,906,537	24,545,381	25,093,449

	Rate	
	19 VS 20	20 VS 21
MRGPHUS	2.52%	2.14%
PHUSSSN	2.55%	2.17%
LINKPHUS	2.67%	2.23%

Step 4

PURPOSE:
- Split the PHUS records into Single and Dual Eligibles.
- Combine SSDI benefits paid by beneficiary across SSDI dual records

DATE EXECUTED: 04/09/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(DUALPHUS) (See Appendix A.59)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSLINK.SA.V1 (OBS=25,093,449) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSSING.SA.V1(OBS= 23,903,382) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSDUAL.SA.V1(OBS= 580,298) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.DUALPHUS

APPROXIMATE PROCESSING TIME: 1 HR 13 MIN 04 SEC

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
PHUSSING	22,756,059	23,369,715	23,903,382
PHUSDUAL	561,466	573,504	580,298

	Rate	
	19 VS 20	20 VS 21
PHUSSING	2.7%	2.28%
PHUSDUAL	2.14%	1.18%

Step 5

PURPOSE:
- Add the dependent amounts and the number of dependents from the auxiliary records to primary beneficiaries in the MBR data.

DATE EXECUTED: 04/09/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MBRADDUP) (See Appendix A.60)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBRPHUS.SA.V1 (OBS=44,881,905) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.SUMREC.SA.V1 (OBS= 23,968,223) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.MBRADDUP

APPROXIMATE PROCESSING TIME: 2 HR 35 MIN 01 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
SUMREC	22,817,005	23,433,393	23,968,223

	Rate	
	19 VS 20	20 VS 21
SUMREC	2.7%	2.28%

Step 6

PURPOSE:

- The MBR data is returned in several sections. The raw data is converted to SAS and subset to the records in the SSDI linking file.

DATE EXECUTED: 04/08/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MBRLOADB) (See Appendix A.61)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MBRREAD) (See Appendix A.62)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F1.R220329 (OBS = 8,978,955) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F2.R220329 (OBS = 8,975,977) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F3.R220329 (OBS = 8,974,223) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F4.R220329 (OBS = 8,977,320) (Flat file format)
OPDR.TG.PRD.ETTW.#7429.DAF21.MBR.F5.R220329 (OBS = 8,975,430) (Flat file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.LINKDI.SA.V1 (OBS= 25,369,154) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR1.SA.V1 (OBS= 5,020,769) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR2.SA.V1 (OBS= 5,018,253) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR3.SA.V1 (OBS= 5,018,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR4.SA.V1 (OBS= 5,018,074) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR5.SA.V1 (OBS= 5,017,411) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.MBRLOADB

APPROXIMATE PROCESSING TIME: 30 HR 57 MIN 21 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
MBR1	4,783,756	4,911,602	5,020,769
MBR2	4,780,230	4,908,282	5,018,253
MBR3	4,782,071	4,909,407	5,018,942
MBR4	4,780,411	4,908,143	5,018,074
MBR5	4,780,069	4,907,947	5,017,411
MBR1	4,783,756	4,911,602	5,020,769

	Rate	
	19 VS 20	20 VS 21
MBR1	2.67%	2.22%
MBR2	2.68%	2.24%
MBR3	2.66%	2.23%
MBR4	2.67%	2.24%
MBR5	2.68%	2.23%

Step 7

PURPOSE:

- Combine all sections of MBR data into two output files: one file of non-duals (single records for SSN) and one file of duals (multiple records for SSN).

DATE EXECUTED: 04/10/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(LOADBCOM) (See Appendix A.63)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR1.SA.V1 (OBS= 5,020,769) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR2.SA.V1 (OBS= 5,018,253) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR3.SA.V1 (OBS= 5,018,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR4.SA.V1 (OBS= 5,018,074) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR5.SA.V1 (OBS= 5,017,411) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.SING.SA.V1 (OBS= 23,903,382) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.DUALS.SA.V1 (OBS= 1,190,067) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.LOADBCOM

APPROXIMATE PROCESSING TIME: 4 HR 22 MIN 23 SEC

QA:
- Check SAS log file for “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
SING	22,756,059	23,369,715	23,903,382
DUALS	1,150,478	1,175,666	1,190,067

	Rate	
	19 VS 20	20 VS 21
SING	2.7%	2.28%
DUALS	2.19%	1.22%

Step 8

PURPOSE:
- Process the supplementary records for dually entitled beneficiaries creating a single combined observation per SSN

DATE EXECUTED: 04/10/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(PROCDUAL) (See Appendix A.64)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.DUALS.SA.V1 (OBS= 1,190,067) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PROCDUAL.SA.V1 (OBS= 580,222) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PROCDUAL

APPROXIMATE PROCESSING TIME: 00 HR 46 MIN 17 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
MBR(COMB)	23,317,451	23,943,144	24,483,604

	Rate	
	19 VS 20	20 VS 21
MBR(COMB)	2.7%	2.26%

Step 9

PURPOSE:

- Combines MBR & PHUS dual files with the single MBR and PHUS files adding auxiliary/secondary data to the primary record

DATE EXECUTED: 04/10/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(MRGDUALS) (See Appendix A.65)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.SING.SA.V1 (OBS= 23,903,382) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSSING.SA.V1(OBS= 23,903,382) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PHUSDUAL.SA.V1(OBS= 580,298) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.PROCDUAL.SA.V1 (OBS= 580,222) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.COMB.SA.V1(OBS= 24,483,604) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.MRGDUALS

APPROXIMATE PROCESSING TIME: 10 HR 40 MIN 19 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
MBR(COMB)	23,317,451	23,943,144	24,483,604

	Rate	
	19 VS 20	20 VS 21
MBR(COMB)	2.7%	2.26%

Step 10

PURPOSE:
- Create additional MBR variables.
- Create final MBR data set adding the auxiliary counts and amounts.

DATE EXECUTED: 04/11/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(PROCMBR) (See Appendix A.66)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.COMB.SA.V1(OBS= 24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.SUMREC.SA.V1 (OBS= 23,968,223) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PROCMBR.SA.V1(OBS= 24,483,604) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PROCMBR

APPROXIMATE PROCESSING TIME: 12 HR 41 MIN 54 SEC

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21
PROCMBR	23,317,451	23,943,144	24,483,604

	Rate	
	19 VS 20	20 VS 21
PROCMBR	2.7%	2.26%

Step 11

PURPOSE:

- Restrict the number of n suffixed variables (including PIA, PIED, IME, and PIARFC) based on finding the maximum between 99th percentile and the restriction number from last year for NPIA variable.

DATE EXECUTED: 04/11/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(RSTRCTN) (See Appendix A.67)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.PROCMBR.SA.V1 (OBS=24,483,604) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (OBS=24,483,604) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.RSTRCTN

APPROXIMATE PROCESSING TIME: 11 HR 51 MIN 37 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Proc Contents Comparison of MBRREST output file to previous DAF year’s file

Step 12

PURPOSE:

- Split the output file from Step 12 into yearly versions to facilitate the creations of the Annual Components. This is purely a logistical step.

DATE EXECUTED: 04/20/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(JCLYRSP) (See Appendix A.49)

INCLUDED SAS PROGRAM(S): OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (OBS=24,483,604) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRyyyy.SA.V1 (OBS=24,483,604
WHERE yyyy = 1994-current DAF year) (SAS file format)

LOG:

OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.JCLYRSP

APPROXIMATE PROCESSING TIME: 5 HR 11 MIN 57 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm that # of observations yearly output files match that of MBRREST input file
- Formal code review

Step 13

PURPOSE:

- Use the MBR final dataset to construct the most recent LAF variable (LAFMR).

DATE EXECUTED: 04/21/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.PRDLIB(LAFMR) (See Appendix A.69)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (OBS=24,483,604) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.LAFMR.SA.V1 (OBS=24,483,604) (SAS file foramt)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.MBR.LAFMR

APPROXIMATE PROCESSING TIME: 3 HR 05 MIN 26 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm # of observations in output file matches that of MBRREST input file
- Formal code review

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

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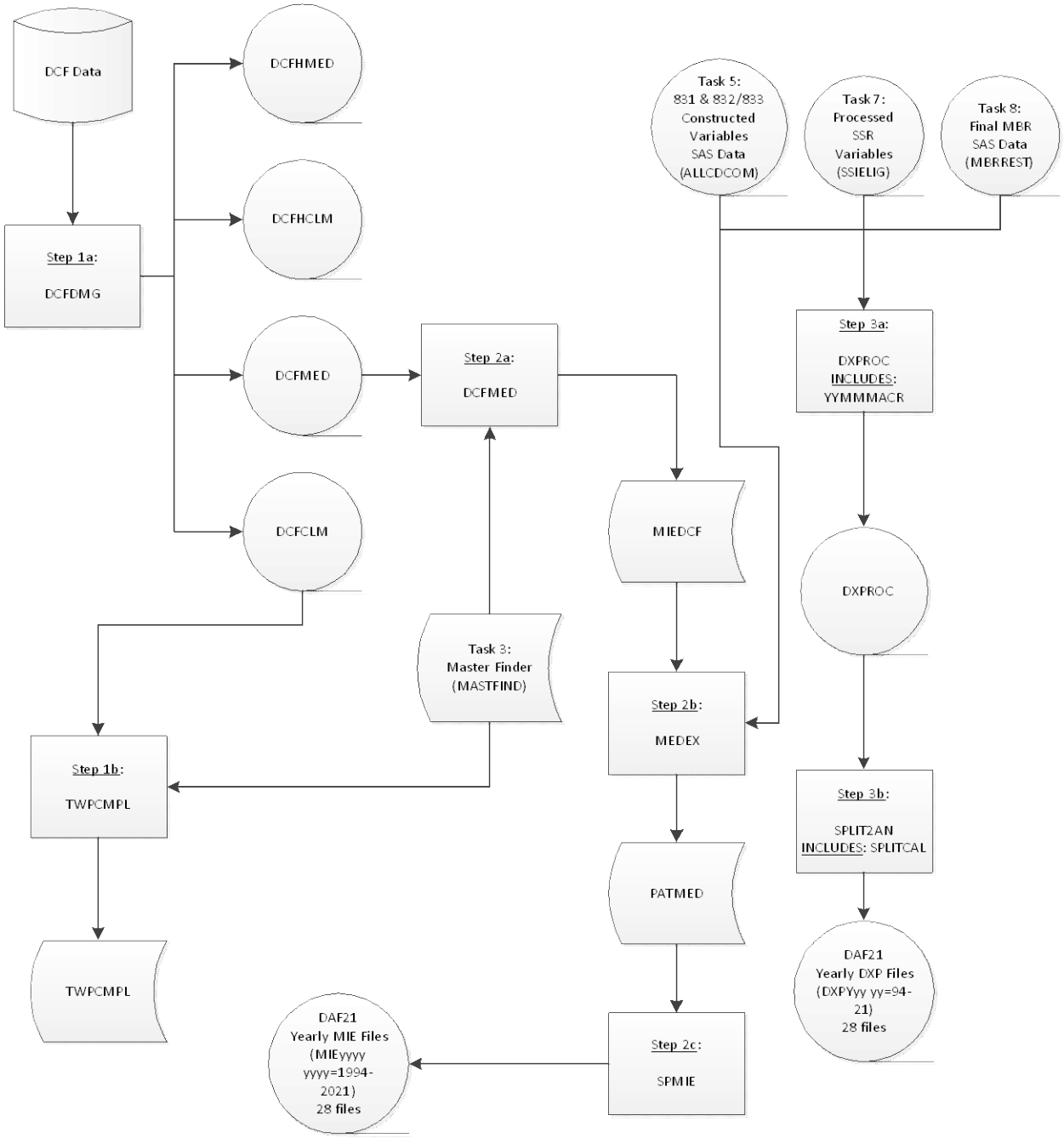
Task 9. DAF DMG pre-processing



Task No.: 9	**Task Name:** Perform DAF DMG Pre-processing

Summary: The purpose of this task is to:
1. Compile all the descriptive variables for the beneficiaries using all the data sources.
2. Create additional constructed variables for use later in building the DAF DMG component file.

Step 1a:

PURPOSE:
Create DCF Medical Table and DCF Claim Table

DATE EXECUTED: 04/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(DCFDMG) (See Appendix A.70)

INPUT(S):
DBP8.DB2.SDSNLOAD (DB2 file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFCLM.SA.V1 (N = 132,714,277) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHCLM.SA.V1 (N = 132,077,893) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFMED.SA.V1 (N= 111,555,929) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHMED.SA.V1 (N = 30,201,263**)** (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.DCFDMG

APPROXIMATE PROCESSING TIME: 1 HR 22 MIN 48 SEC

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

Table	DAF18	DAF19	DAF20	DAF21
DCFCLM	125,996,558	129,534,875	132,714,277	135,115,816
DCFHCLM	107,242,483	120,646,970	132,077,893	140,385,292
DCFMED	104,402,455	108,335,350	111,555,929	113,673,303
DCFHMED	25,635,801	28,076,904	30,201,263	31,857,798

	Rate		
Table	18 VS 19	19 VS 20	20 VS 21
DCFCLM	2.81%	2.45%	1.81%
DCFHCLM	12.50%	9.47%	6.29%
DCFMED	3.77%	2.97%	1.90%
DCFHMED	9.52%	7.57%	5.48%

Step 1b:

PURPOSE:
Obtain trial work period completion month information from the DCF Claim Table.

DATE EXECUTED: 04/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(TWPCMPL) (See Appendix A.71)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFCLM.SA.V1 (N= 2,798,245 – read where TWP_CMPL_MDT NOT = .) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1(N= 37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.TWPCMPL.SA.V1 (N=2,420,205) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DA21.DEMO.TWPCMPL

APPROXIMATE PROCESSING TIME: 0 HR 12 MIN 04 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	OBS	RATE
DAF13	1,627,503	
DAF14	1,719,522	5.70%
DAF15	1,831,921	6.50%
DAF16	1,931,903	5.40%
DAF17	2,041,826	5.69%
DAF18	2,148,731	5.24%
DAF19	2,246,174	4.53%
DAF20	2,339,623	4.16%
DAF21	2,420,205	3.44%

Step 2a:

PURPOSE:
Obtain blind date information from the DCF Medical Table and create table of MIE variables.

DATE EXECUTED: 04/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF20.DEMO.PRDLIB(DCFMED) (See Appendix A.72)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1(N= 37,523,560) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFMED.SA.V1
(N= 865,902– read where BLND_ONST_DT > .Z and
N= 51,779,549 where LU_PGM_NM NE 'CDCNVCLM' AND CID = '00' AND MED_STDT NE .)
(SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIEDCF.SA.V1 (N=37,523,560) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.DCFMED

APPROXIMATE PROCESSING TIME: 1 HR 40 MIN 29 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes for BLIND

	OBS	RATE
DAF13	283,451	
DAF14	294,903	4.00%
DAF15	307,170	4.20%
DAF16	419,106	36.40%
DAF17	429,196	2.41%
DAF18	476,278	10.97%
DAF19	490,936	3.08%
DAF20	503,560	2.57%
DAF21	514,185	2.11%

- Year-to-year comparison of output observation counts: check for reasonable trend in changes for MIEDCF

	OBS	RATE
DAF15	30,115,948	
DAF16	32,115,458	6.60%
DAF17	33,881,133	5.50%
DAF18	34,879,605	2.95%
DAF19	35,887,308	2.89%
DAF20	36,763,625	2.44%
DAF21	37,523,560	2.07%

- Proc Contents Comparison of MIEDCF output file to previous DAF year’s file

Step 2b:

PURPOSE:
Propagate MIE values through months with missing MIE values.

DATE EXECUTED: 04/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(MEDEX) (See Appendix A.73)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIEDCF.SA.V1 (N= 37,523,560) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.ALLCDCOM.SA.V1 (N= 35,842,400) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.PATMED.SA.V1 (N= 37,523,560) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.MEDEX

APPROXIMATE PROCESSING TIME: 1 HR 45 MIN 31 SEC

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 2c:

PURPOSE:
Split MIE table into yearly files.

DATE EXECUTED: 04/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(SPMIE) (See Appendix A.74)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.PATMED.SA.V1 (N= 37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIExxxx.SA.V1 (N= 37,523,560)
WHERE xxxx=1994-2021 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.SPMIE

APPROXIMATE PROCESSING TIME: 0 HR 25 MIN 24 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 3:

PURPOSE:
Create diagnosis variables from MBR and 831 data.

DATE EXECUTED: 06/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(DXPROC) (See Appendix A.75)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.ALLCDCOM.SA.V1 (N= 35,842,400) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (N= 24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N= 21,557,838) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DXPROC.SA.V1 (N= 37,494,698) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.DXPROC

APPROXIMATE PROCESSING TIME: 08 HR 25 MIN 20 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes
- Proc Contents Comparison of DXPROC output file to previous DAF year’s file

	OBS	RATE
DAF13	27,260,967	
DAF14	28,361,647	4.00%
DAF15	29,426,586	3.80%
DAF16	31,429,157	6.80%
DAF17	33,159,837	5.51%
DAF18	34,851,750	5.10%
DAF19	35,859,215	2.89%
DAF20	36,734,866	2.44%
DAF21	37,494,698	2.07%

Step 4:

PURPOSE:
Split diagnosis data into yearly files.

DATE EXECUTED: 06/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.PRDLIB(SPLIT2AN) (See Appendix A.76)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DXPROC.SA.V1 (N= 37,494,698) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DXPYxx.SA.V1 (N= 37,494,698
WHERE xx=94-21 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DEMO.SPLIT2AN

APPROXIMATE PROCESSING TIME: 3 HR 45 MIN 49 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: N/A

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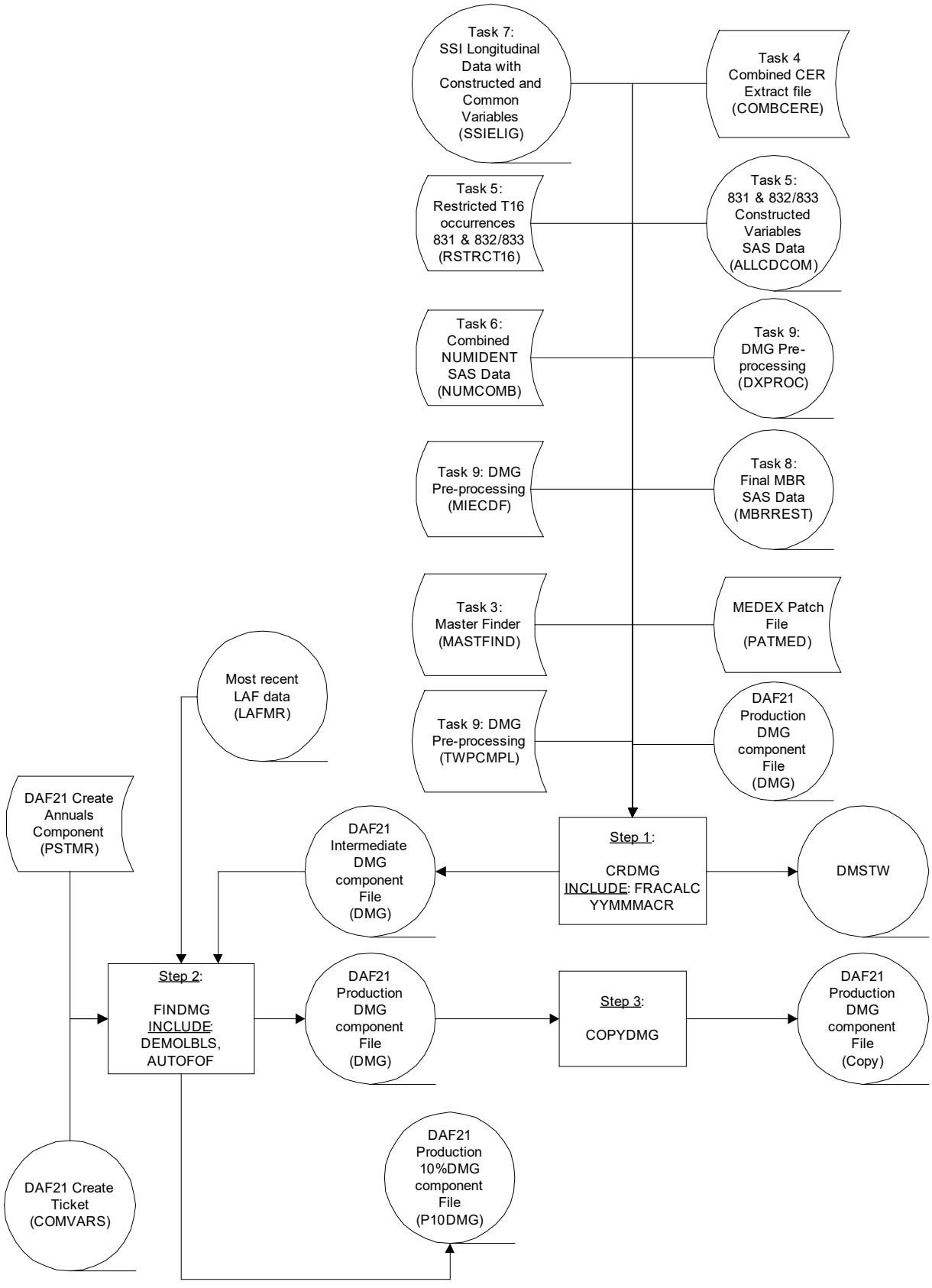
Task 10. Create DAF DMG component



Task No.: 10	**Task Name:** Create DAF DMG Component

Summary: The purpose of this task is to:

1. Compile all the descriptive variables for the beneficiaries using all the data sources.
2. Create additional constructed variables for analysis and output the DMG component file.

Step 1:

PURPOSE:
Combine processed administrative data to create the intermediate DMG component of the DAF. Additionally, create a small extract of DMG component variables to be used in the processing of STWs & BFWs.

DATE EXECUTED: 8/24/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.DEMO.PRDLIB(CRDMG) (See Appendix A.77)

INCLUDED SAS PROGRAMS:
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB (FRACALC) (See Appendix A.1)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF20P.DMG (N= 36,726,983) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N= 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (N= 24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.NUMCOMB.SA.V1 (N= 37,520,013) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.ALLCDCOM.SA.V1 (N= 35,842,400) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCERE.SA.V1 (N= 7,441,536) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.RSTRCT16.SA.V1 (N= 23,398,934) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1 (N= 37,523,560) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.TWPCMPL.SA.V1 (N= 2,420,205) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIEDCF.SA.V1 (N= 37,523,560) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DXPROC.SA.V1 (N= 37,494,698) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.PATMED.SA.V1 (N= 37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21I.DMG.SA.V1 (N= 37,522,124) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,124) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF21.DEMO.CRDMG

APPROXIMATE PROCESSING TIME: 14 hours 21 minutes 7 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DMSTW Output Obs	Changes
DAF18	34,878,107	2.95%
DAF19	35,885,848	2.89%
DAF20	36,762,201	2.44%
DAF21	37,522,124	2.07%

- Proc Contents Comparison of intermediate DMG output file to previous DAF year's file
- Compare frequencies key intermediate variables from current DAF to previous DAF
  - SEXMISS, SEX, CITIZEN_CER, CITIZEN_NUMI, LANGSSR, FIRSTMIE, DUALELIG have similar frequencies (are these what should be checked?)

Step 2:

PURPOSE: Finalize DMG component file and label all variables. Create 10% DMG file.

DATE EXECUTED: 12/19/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.DEMO.PRDLIB(FINDMG) (See Appendix A.79)

INCLUDED SAS PROGRAMS:
OPDR.TG.PRD.ETTW.#8047.DAF21.DEMO.PRDLIB(DEMOLBLS) (See Appendix A.78)

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21I.DMG.SA.V1 (N =37,486,887 where DOBBEST>=1996) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N=37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.PSTMR.SA.V1 (N=75,703,195) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.LAFMR.SA.V1 (N=24,483,604) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG (N= 37,486,887) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMGCON.SA.V1 (N= 1,499) (SAS file format) exists
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10DMG (N= 3,744,968) (SAS file format) exists
OPDR.TG.PRD.ETTW.#8047.DAF21P.P10DCON.SA.V1 (N= 1,499) (SAS file format) exists

LOG: OPDR.TG.PRD.ETTW.#8047.DAF21.DEMO.FINDMG

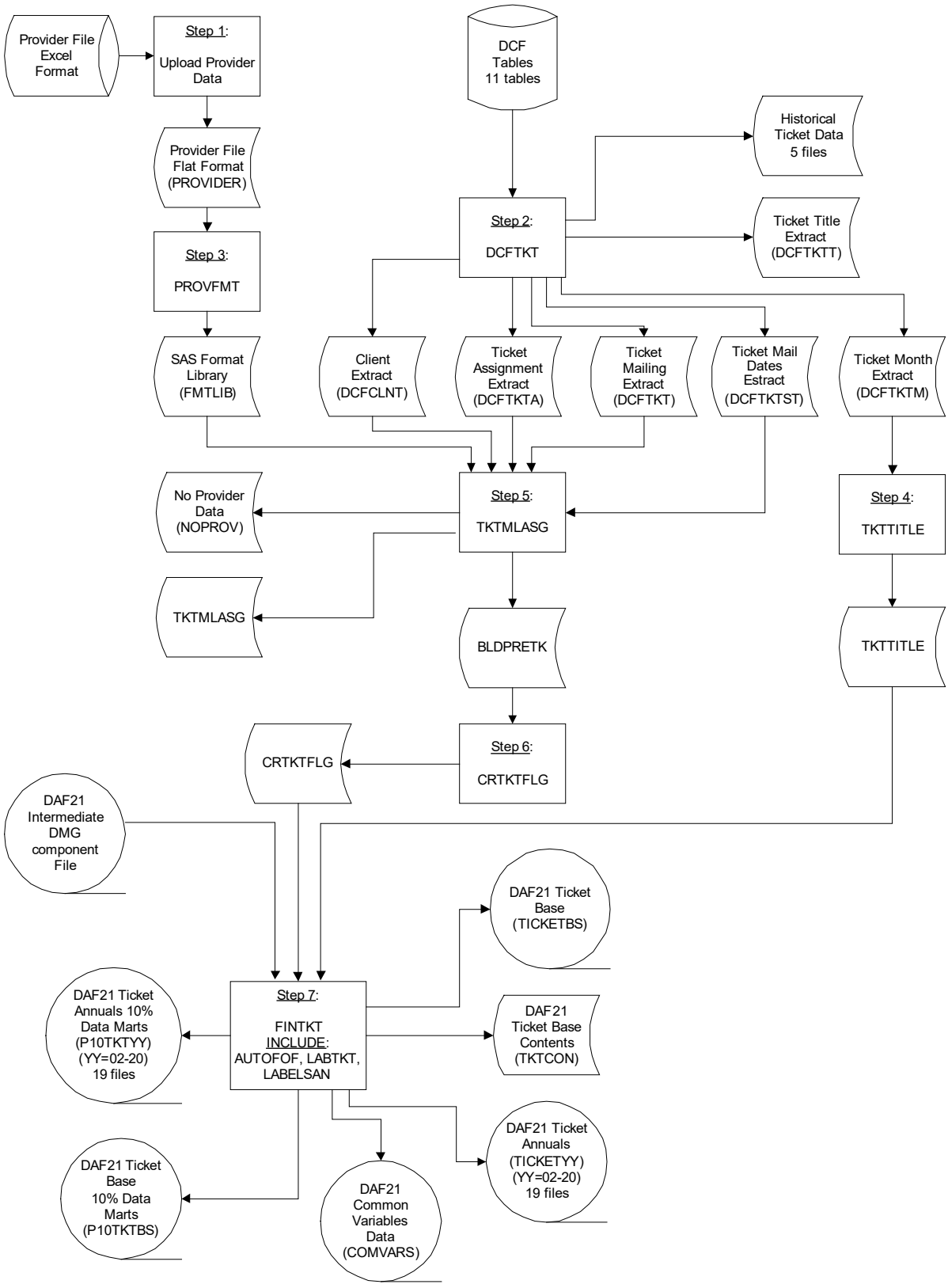
APPROXIMATE PROCESSING TIME: 02 hours 55 minutes 16 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	DAF18	DAF19	DAF20	DAF21	18 VS 19	19 VS 20
FINDMG	34,843,046	35,850,604	36,726,983	37,486,887	2.89%	2.44%

• Proc Contents Comparison of Finalized DMG output file to previous DAF year's file • Compare frequencies key finalized variables from current DAF to previous DAF
Data Documentation: N/A
SSA Contact Staff: NAME: Paul O'Leary PHONE: (202) 358-6227 EMAIL: Paul.OLeary@ssa.gov

Task 11. Create DAF ticket component



Task No.: 11	**Task Name:** Create DAF Ticket Component

Summary: The purpose of this task is to:

1. Build the Ticket component of the DAF.

Step 1

PURPOSE: Upload provider data to the mainframe.

DATE EXECUTED: 07/07/2022

MAIN PROGRAM:
M:\DAF21\TASK 11 Create Ticket Component\Programs\Upload Provider Data.sas (See Appendix A.80)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 11 Create Ticket Component\Provider File\EN Provider File 062822.xlsx (N = 3,718) (Excel File Format)

OUTPUT(S):
M:\DAF21\TASK 11 Create Ticket Component\Programs\provider.txt (N = 3,034) (Flat File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.PROVIDER.FL.V1 (N= 3,034) (Flat File Format)

LOG:
M:\DAF21\TASK 11 Create Ticket Component\Programs\Upload Provider Data.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 20 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input and output record counts: check that inputs and outputs are relatively the same each year

	# Input Observations	# Output Observations
DAF19	3,647	2,977
DAF20	3,687	3,008
DAF21	3,718	3,034

Step 2

PURPOSE: Create format for provider types.

DATE EXECUTED: 07/07/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(PROVFMT) (See Appendix A.81)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.PROVIDER.FL.V1 (N=3,034) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.TKT.FMTLIB (N=3,034) (SAS Format Library)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PROVFMT

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 01 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of input and output records are the same

Step 3

PURPOSE: Pull data from DCF DB2 databases.

DATE EXECUTED: 05/27/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(DCFTKT) (See Appendix A.82)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
The following DCF TABLES: TKTASGN, HTKTASGN, TKT, HTKT, TKTTITLE, HTKTTITL, TKTMNTH, HTKTMNTH, CLNT, HCLNT, and TKTSENT (N = Same as outputs, see below) (DB2 Table Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTA.SA.V1 (N= 2,019,608) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHTKTA.SA.V1 (N= 3,938,119) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKT.SA.V1 (N= 29,456,390) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHTKT.SA.V1 (N= 37,575,023) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTT.SA.V1 (N= 34,675,008) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHTKTT.SA.V1 (N= 21,015,253) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTM.SA.V1 (N= 90,564,469) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHTKTM.SA.V1 (N= 24,168,480) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFCLNT.SA.V1 (N= 70,516,804) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFHCLNT.SA.V1 (N= 108,515,628) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTST.SA.V1 (N= 6,722,245) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.DCFTKT

APPROXIMATE PROCESSING TIME: 01 hours 11 minutes 46 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

- Year-to-year comparison of input and output record counts: check for reasonable changes

	DAF19	DAF20	DAF21	% increase DAF19 to DAF20	% increase DAF20 to DAF21
TKTASGN	1,837,690	1,922,554	2,019,608	4.62	5.05
HTKTASGN	3,591,122	3,703,740	3,938,119	3.14	6.33
TKT	28,008,541	28,756,287	29,456,390	2.67	2.43
HTKT	33,975,656	35,850,227	37,575,023	5.52	4.81
TKTTITLE	33,023,316	33,879,683	34,675,008	2.59	2.35
HTKTTITL	18,468,470	19,819,298	21,015,253	7.31	6.03
TKTMNTH	82,480,167	86,673,529	90,564,469	5.08	4.49
HTKTMNTH	21,597,488	22,786,853	24,168,480	5.51	6.06
CLNT	68,246,476	69,383,168	70,516,804	1.67	1.63
HCLNT	92,550,213	100,818,635	108,515,628	8.93	7.63
TKTSENT	5,418,368	6,124,561	6,722,245	13.03	9.76

Step 4

PURPOSE: Build ticket title data.

DATE EXECUTED: 05/27/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(TKTTITLE) (See Appendix A.83)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTM.SA.V1 where SSACT_PRTCPN_CD != '0' (N= 73,150,138) (SAS File Format)

OUTPUT(S)
OPDR.TG.PRD.ETTW.#6502.DAF21P.TKTTITLE.SA.V1 (N= 28,434,762) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.TKTTITLE

APPROXIMATE PROCESSING TIME: 00 hours 55 minutes 21 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable changes

	DAF19	DAF20	DAF21	% increase DAF19 to DAF20	% increase DAF20 to DAF21
DCFTKTM (where SSACT_PRTCPN_CD != '0')	67,137,150	70,264,939	73,150,138	4.66	4.11
TKTTITLE	27,086,203	27,784,173	28,434,762	2.58	2.34

- We kept all unique combinations of SSN and TKT_STMDT. As a result some non-unique combinations were dropped. Confirm that trend looks reasonable year-to-year:

Year	Total	Unique	Non-Unique (Dropped)
DAF14	48,788,240	48,771,510	16,730
DAF15	52,212,579	52,185,592	26,987
DAF16	55,997,820	55,961,241	36,579
DAF17	59,611,323	59,566,834	44,489
DAF18	63,420,985	63,369,204	51,781
DAF19	67,137,150	67,078,819	58,331
DAF20	70,264,939	70,201,949	62,990
DAF21	73,150,138	73,082,299	67,839

Step 5

PURPOSE: Build ticket assignment data.

DATE EXECUTED: 07/07/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(TKTMLASG) (See Appendix A.84)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKT.SA.V1 (N= 29,456,390) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTA.SA.V1 (N= 2,019,608) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFCLNT.SA.V1 (N= 70,516,804) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFTKTST.SA.V1 (N=6,722,245) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.TKT.FMTLIB (N=3,034) (SAS Format Library)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.TKTMLASG.SA.V1 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21.NOPROV.SA.V1 (N=42) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.BLDPRETK.SA.V1 (N= 28,570,366 (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.TKTMLASG

APPROXIMATE PROCESSING TIME: 01 hours 22 minutes 35 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable changes. If the NOPROV dataset changes at all, it is usually not by much.

	DAF19	DAF20	DAF21	% increase from DAF19	% increase from DAF20
TKTMLASG	27,214,748	27,915,676	28,570,366	2.58	2.35
NOPROV	42	42	42	0.00	0.00
BLDPRETK	27,214,748	27,915,676	28,570,366	2.58	2.35

Step 6

PURPOSE: Create ticket flag variables.

DATE EXECUTED: 07/08/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(CRTKTFLG) (See Appendix A.85)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.BLDPRETK.SA.V1 (N= 28,570,366) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF20P.CRTKTFLG.SA.V1 (N= 28,570,366) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.CRTKTFLG

APPROXIMATE PROCESSING TIME: 13 hours 11 minutes 19 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable changes.

	DAF19	DAF20	DAF21	% increase from DAF19	% increase from DAF20
CRTKTFLG	27,214,748	27,915,676	28,570,366	2.58	2.35

Step 6

PURPOSE: Create and finalize ticket base and ticket annuals.

DATE EXECUTED: 09/12/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(FINTKT) (See Appendix A.86)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(LABTKT) (See Appendix A.87)
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.PRDLIB(LABELSAN) (See Appendix A.88)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.CRTKTFLG.SA.V1 (N=28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.TKTTITLE.SA.V1 (N= 28,434,762) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.DMG.SA.V1 (N= 37,502,183) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TKTCON (N=N/A) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKETBS (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET02 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET03 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET04 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET05 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET06 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET07 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET08 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET09 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET10 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET11 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET12 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET13 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET14 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET15 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET16 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET17 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET18 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET19 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET20 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKET21 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKTBS (N= 2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT02 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT03 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT04 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT05 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT06 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT07 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT08 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT09 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT10 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT11 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT12 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT13 (N=2,853,904) (SAS File Format)

OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT14 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT15 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT16 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT17 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT18 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT19 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT20 (N=2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKT21 (N=2,853,904) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.TKT.FINTKT

APPROXIMATE PROCESSING TIME: 21 hours 54 minutes 50 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts for Ticket Annuals/Base Files: check for reasonable changes.

Ticket Annuals and Base Files		
	# observations	% change
DAF19	27,214,748	
DAF20	27,915,676	2.5%
DAF21	28,570,366	2.3%

- The COMVARS output file should have the same # of obs as the Intermediate DMG Input file
- All DAF Ticket Base and Annuals Files should have the same # of obs
- All DAF 10% Ticket Files should have the same # of obs and be roughly 10% of the # of obs in the Base/Annuals Files
- Contents comparison of output files to last year’s files

Data Documentation: N/A

SSA Contact Staff:
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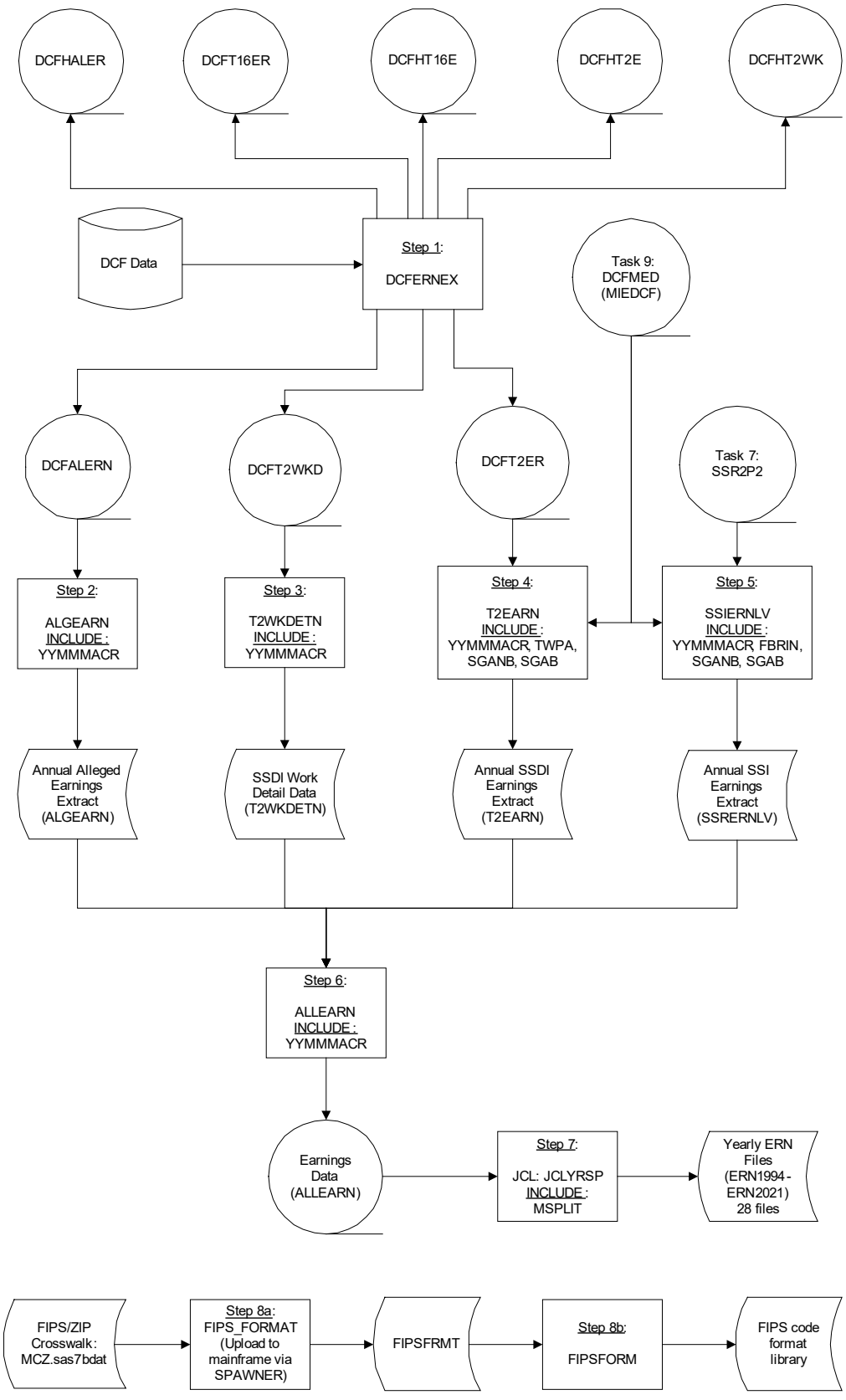
Task 12. DAF Annual pre-processing



Task No.: 12	**Task Name:** Annuals Pre-Processing

Summary: The purpose of this task is to:
1. Extract earnings data from DCF tables and reformat the data into monthly (yymm) variables.
2. Merge with SSI earnings data sourced from SSR tables to create a dataset with all earnings data

Step 1

PURPOSE:
Create snapshots of the DCF tables related to work and earnings

DATE EXECUTED: 06/20/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(DCFERNEX) (See Appendix A.89)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
DBP8.DB2.SDSNLOAD (DB2 Tables)
- ALLGERNG
- HALLGERN
- T16ERNGS
- HT16ERNG
- T2ERNGS
- HT2ERNGS
- T2WKDETN
- HT2WKDET

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFALERN.SA.V1 (N= 668,079) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFHALER.SA.V1 (N= 137,631) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFHT16E.SA.V1 (N= 14,100,755) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFHT2E.SA.V1 (N= 176,593,539) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFHT2WK.SA.V1 (N= 134,634,198) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFT16ER.SA.V1 (N= 87,118,796) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFT2ER.SA.V1 (N= 170,545,172) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFT2WKD.SA.V1 (N= 164,737,185) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.DCFERNEX

APPROXIMATE PROCESSING TIME: 01 hour 35 minutes 21 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of record counts: check for reasonable trend in changes

QA (DCFALERN):

	Output Obs	Changes
DAF18	415,741	20.39%
DAF19	499,178	20.07%
DAF20	587,087	17.61%
DAF21	668,079	13.8%

QA (DCFHALER):

	Output Obs	Changes
DAF18	79,600	25.96%
DAF19	100,363	26.08%
DAF20	121,466	21.03%
DAF21	137,631	13.3%

QA (DCFT16ER):

	Output Obs	Changes
DAF18	75,347,984	6.09%
DAF19	79,696,262	5.77%
DAF20	83,941,676	5.33%
DAF21	87,118,796	3.78%

QA (DCFHT16E):

	Output Obs	Changes
DAF18	12,277,931	6.07%
DAF19	12,979,522	5.71%
DAF20	13,629,299	5.01%
DAF21	14,100,755	3.46%

QA (DCFT2ER):

	Output Obs	Changes
DAF18	143,305,988	7.32%
DAF19	153,038,718	6.79%
DAF20	163,385,329	6.76%
DAF21	170,545,172	4.38%

QA (DCFHT2E):

	Output Obs	Changes
DAF18	136,678,236	10.68%
DAF19	150,650,695	10.22%
DAF20	165,170,167	9.64%
DAF21	176,593,539	6.92%

QA (DCFT2WKD):

	Output Obs	Changes
DAF18	137,849,956	7.39%
DAF19	147,368,860	6.91%
DAF20	157,596,750	6.94%
DAF21	164,737,185	4.53%

QA (DCFHT2WK):

	Output Obs	Changes
DAF18	97,570,228	14.40%
DAF19	110,558,798	13.31%
DAF20	124,019,545	12.18%
DAF21	134,634,198	8.56%

Step 2

PURPOSE:

- Limit the ALLGERNG data to records within the DAF reporting period (earnings date between January 1, 1994 – December 31 of current DAF year) and whose SSN is their own (CID='00').
- Reshape the data into DAF format (one record per SSN with monthly YYMM suffixed variables)

DATE EXECUTED: 06/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(ALGEARN) (See Appendix A.90)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFALERN.SA.V1 (N= 643,726 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.ALGEARN.SA.V1 (N = 65,136) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21. ANN.ALGEARN

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 18 seconds

QA:

- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	43,925	15.33%
DAF19	50,507	14.98%
DAF20	56,641	12.14%
DAF21	65,136	15%

Step 3

PURPOSE:

- Limit the T2WKDETN data to records within the DAF reporting period (earnings date between January 1, 1994 – December 31 of current DAF year) and whose SSN is their own (CID='00').
- Reshape the data into DAF format (one record per SSN with monthly YYMM suffixed variables)

DATE EXECUTED: 06/23/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(T2WKDETN) (See Appendix A.91)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFT2WKD.SA.V1 (N= 155,124,420 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.T2WKDETN.SA.V1 (N = 3,782,023) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.T2WKDETN

APPROXIMATE PROCESSING TIME: 03 HR 09 MIN 36 SEC

QA:

- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	3,378,964	5.39%
DAF19	3,537,511	4.69%
DAF20	3,680,693	4.04%
DAF21	3,782,023	2.75%

Step 4

PURPOSE:
- Limit the T2ERNGS data to records within the DAF reporting period (earnings date between January 1, 1994 – December 31 of current DAF year) and whose SSN is their own (CID='00').
- Reshape the data into DAF format (one record per SSN with monthly YYMM suffixed variables)
- Build SSDI Earnings Level DAF variable (DIERNLVL)

DATE EXECUTED: 06/23/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#8047.DAF20.ANN.PRDLIB(T2EARN) (See Appendix A.92)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.DCFT2ER.SA.V1 (N=160,300,923 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIEDCF.SA.V1 (N=37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.T2EARN.SA.V1 (N = 3,845,253) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.T2EARN

APPROXIMATE PROCESSING TIME: 28 HR 20 MIN 45 SEC

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	3,439,301	5.33%
DAF19	3,599,298	4.65%
DAF20	3,744,892	4.05%
DAF21	3,845,253	2.68%

- Check frequencies of DIERNLVLyymm variables

Step 5

PURPOSE:
- Build SSI Earnings Level DAF variable (SSIERNLVL)

DATE EXECUTED: 06/30/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(SSIERNLV) (See Appendix A.93)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSR2P2.SA.V1 (N=8,697,363) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIEDCF.SA.V1 (N=37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSRERNLV.SA.V1 (N = 8,697,363) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.SSIERNLV

APPROXIMATE PROCESSING TIME: 02 HR 08 MIN 53 SEC

QA:

- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	7,961,796	
DAF19	8,242,035	3.52%
DAF20	8,474,174	2.82%
DAF21	8,697,363	2.63%

- Check frequencies of SSIERNLVLyymm variables

Step 6

PURPOSE:

- Combine the output from Steps 2 through 5 into a single dataset

DATE EXECUTED: 06/30/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(ALLEARN) (See Appendix A.94)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.T2EARN.SA.V1 (N =3,845,253) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.T2WKDETN.SA.V1 (N = 3,782,023) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSRERNLV.SA.V1 (N = 8,697,363) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.ALGEARN.SA.V1 (N = 65,136) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.ALLEARN.SA.V1 (N = 11,214,707) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.ALLEARN

APPROXIMATE PROCESSING TIME: 02 HR 48 MIN 59 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	25,916,644	3.79%
DAF19	10,603,071	-59.09%*
DAF20	10,927,739	3.06%
DAF21	11,214,707	2.62%

**The large decrease in observations from DAF18 to DAF19 was caused by a change in structure of the SSIERNLVL file, which is constructed during the SSR Processing Task. In DAF18, SSIERNLVL contained data for all SSI beneficiaries, but starting in DAF19 we changed the processing so that only SSI beneficiaries with earnings are on the file.*

- Comparison done between the contents of this output file and of the analogous from the prior DAF to confirm that no unexpected variables were deleted or added and expected additions and deletions were made.

Step 7

PURPOSE:

- Split the output file from Step 6 into yearly versions to facilitate the creations of the Annual Components. This is purely a logistical step.

DATE EXECUTED: 06/30/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(JCLYRSP) (See Appendix A.96)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(MSPLIT) (See Appendix A.3)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.ALLEARN.SA.V1 (N = 11,214,707) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.ERN*yyyy*.SA.V1 where *yyyy* is 1994-2021 (N = 11,214,707) (SAS format file

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.JCLYRSP

APPROXIMATE PROCESSING TIME: 03 HR 16 MIN 16 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- The number of observations in each of the output detests is confirmed to matched the number from the input dataset.

Step 8

PURPOSE:
- Create a crosswalk of Zip Codes to FIPS Codes in SAS Format
- Upload the Zip-to-FIPS cross walk to the mainframe

DATE EXECUTED: 09/07/2022

MAIN PROGRAM: M:\DAF21\TASK 12 Annuals Pre-Processing\Programs\FIPS_FORMAT.sas (See Appendix A.97)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
M:\DAF21\TASK 12 Annuals Pre-Processing\fips\mcz.csv (N = 52,300) (CSV format file)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.FIPSFRMT.SA.V1 (N = 41,056) (SAS format file)

LOG:
M:\DAF21\TASK 12 Annuals Pre-Processing\Programs\FIPS_FORMAT.log

APPROXIMATE PROCESSING TIME: 00 HR 00 MIN 16.97 SEC

QA:
- Check SAS log file for “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in changes

	Output Obs	Changes
DAF18	41,078	0.00%
DAF19	41,073	-0.012%
DAF20	41,063	-0.024%
DAF21	41,056	-0.017%

Step 9

PURPOSE:
- Create a SAS format of the Zip-to-FIPS crosswalk from Step 8

DATE EXECUTED: 09/07/2021

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.PRDLIB(FIPSFORM) (See Appendix A.98)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.FIPSFRMT.SA.V1 (N = 41,056) (SAS format file)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.FIPS.FMTLIB (N=N/A) (SAS format file)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.ANN.FIPSFORM

APPROXIMATE PROCESSING TIME: 00 HR 00 MIN 02 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

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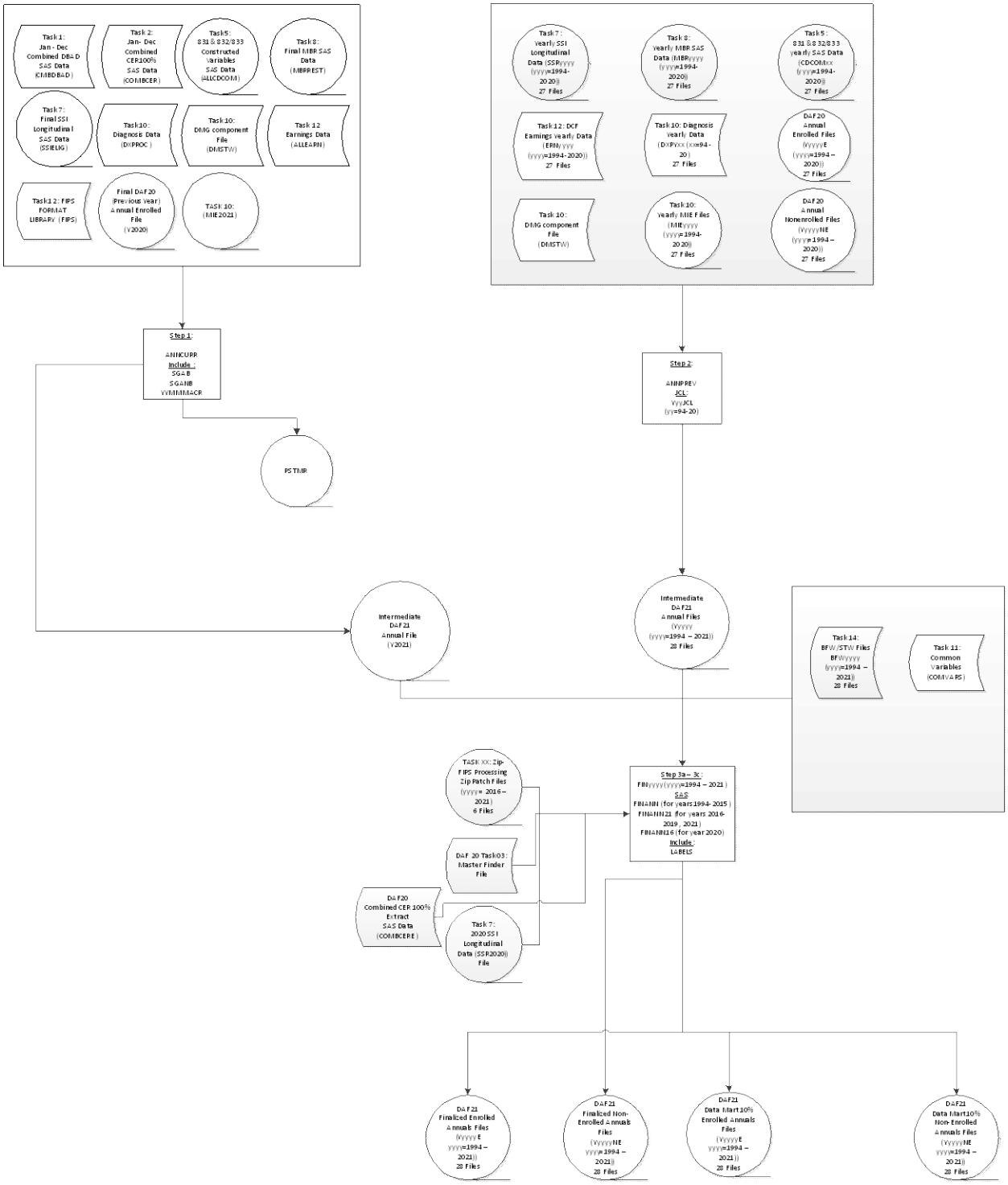
Task 13. Create DAF annual component



Task No.: 13	**Task Name:** Create Annual Component

Summary: The purpose of this task is to:

1. Compile all the monthly variables for the beneficiaries.

Step 1

PURPOSE:
Build the current DAF year Annual File, removing beneficiaries who died before 1996.

DATE EXECUTED: 9/15/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(ANNCURR) (See Appendix A.99)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(SGAB) (See Appendix A.6)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(SGANB) (See Appendix A.5)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N = 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (N = 24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.ALLCDCOM.SA.V1 (N = 35,842,400) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.ALLEARN.SA.V1 (N = 11,214,707) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.COMBCERE.SA.V1 (N = 7,441,536) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.DXPROC.SA.V1 (N = 37,494,698) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.CMBDBDE.SA.V1 (N = 10,192,368) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N = 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF20P.Y2020E (N = 17,986,266) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21.FIPS.FMTLIB (N = n/a) (SAS format library)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIE2021.SA.V1 (N = 37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21I.Y2021.SA.V1 (N = 37,486,887) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.Y2021CON.SA.V1 (N = 1,145) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.PSTMR.SA.V1 (N = 37,486,887) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.ANNCURR

APPROXIMATE PROCESSING TIME: 15 hours 33 minutes 35 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Review frequencies and means of key intermediate variables compared to previous DAF

Step 2

PURPOSE:
Build the 1994 – the previous DAF year Annual Files, removing beneficiaries who died before 1996.

DATE EXECUTED: 10/14/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(YxxJCL) (See Appendix A.100 – A.126)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(ANNPREV) (See Appendix A.127)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
For all inputs and outputs below, xxxx = 1994 - 2020
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSRxxxx.SA.V1 (N = 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRxxxx.SA.V1 (N =24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.CDCOMxx.SA.V1 (N =35,842,400) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.ERNxxxx.SA.V1 (N =11,214,707) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21.DXPYxx.SA.V1 (N = 37,494,698) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N = 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF20P.YxxxxE (N = varied) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF20P.YxxxxNE (N = varied) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MIExxxx.SA.V1 (N = 37,523,560) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21I.Yxxxx.SA.V1 (N =37,486,887) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.YxxxxCON.SA.V1 (N = n/a) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.Yxx

APPROXIMATE PROCESSING TIME: On average, 6 hours per JCL program.

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Review frequencies and means of key intermediate variables compared to previous DAF
- Proc Contents Comparison of Intermediate Annuals output files to previous DAF year’s files

Step 3a

PURPOSE:
- Finalize and split annuals files into enrolled and non-enrolled for years 1994-2015.
- Additionally, produce contents for all output datasets.

DATE EXECUTED: 10/10/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(FINyyyy), where yyyy = 1994-2015 (See Appendix A.128 – A.149)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(FINANN) (See Appendix A.156)
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(LABELS) (See Appendix A.159)

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF2II.Yyyyy.SA.V1, yyyy = 1994 – 2015 (N = 37,486,997) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.BFWyyyy.SA.V1, yyyy = 1994 – 2015 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.STUDMyy.SA.V1, yyyy = 1994 – 2015 (N=21,557,838) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.YyyyyE, where yyyy = 1994- 2015 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.CANyyE.SA.V1, where yy = 94 – 15 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Yyyyy.NE, where yyyy = 1994 – 2015 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.CANyyNE.SA.V1, where yy = 94 – 15 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF10D.YyyyyE, where yyyy = 1994 – 2015 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.YyyyyNE, where yyyy = 1994 – 2015 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.C10ANyy.E.SA.V1, where yy = 94 – 15 (N = n/a) (SAS file format)

Finalized Annuals Output Observations

Year	Enrolled	Non-enrolled	Enrolled 10%	Non-enrolled 10%
1994	9,587,343	27,914,840	957,717	2,788,802
1995	10,786,166	26,716,017	1,077,107	2,669,412
1996	11,923,792	25,578,391	1,190,340	2,556,179
1997	12,564,508	24,937,675	1,253,566	2,492,953
1998	12,993,624	24,508,559	1,297,064	2,449,455
1999	13,408,788	24,093,395	1,338,477	2,408,042
2000	13,843,160	23,659,023	1,381,742	2,364,777
2001	14,340,925	23,161,258	1,431,773	2,314,746
2002	14,976,689	22,525,494	1,495,786	2,250,733
2003	15,556,143	21,946,040	1,554,083	2,192,436
2004	16,081,213	21,420,213	1,606,226	2,140,293
2005	16,597,116	20,905,067	1,657,728	2,088,791
2006	17,075,591	20,426,592	1,705,309	2,041,210
2007	17,540,259	19,961,924	1,752,239	1,994,280
2008	18,067,499	19,434,684	1,804,919	1,941,600
2009	18,703,451	18,798,732	1,868,682	1,877,837
2010	19,209,580	18,292,603	1,918,234	1,828,285
2011	19,653,831	17,848,352	1,963,703	1,782,816
2012	19,988,163	17,514,020	1,997,460	1,749,059
2013	20,134,506	17,367,677	2,011,962	1,734,557
2014	20,140,142	17,362,041	2,013,108	1,733,411
2015	20,088,621	17,413,562	2,007,720	1,738,799

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.FINyyyy, where yyyy=1994-2015

APPROXIMATE PROCESSING TIME: On average, 4 hours 30 minutes per JCL program

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Review frequencies and means of key finalized variables compared to previous DAF
- Proc Contents Comparison of Finalized Annuals output files to previous DAF year’s files

Step 3b

PURPOSE:
- Finalize and split annuals files into enrolled and non-enrolled for years 2016-2021.
- Additionally, produce contents for all output datasets.

DATE EXECUTED: 01/06/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ANN.PRDLIB(FINyyyy), where yyyy = 2016-2019, 2021 (See Appendix A.150 – A.153, A.155)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.ANN.PRDLIB(FINANN21) years 2016-2019, 2021(See Appendix A.158)
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(LABELS) (See Appendix A.159)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF2II.Yyyyy.SA.V1, yyyy = 2016-2019, 2021 (N = 37,486,997) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWyyyy.SA.V1, yyyy = 2016 – 2019,2021 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.ZIPFIPyy.SA.V1, yy=16-19, 21 (N=75,699,978) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.YyyyyE, where yyyy = 2016 – 2019, 2021 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.CANyyE.SA.V1, where yy = 16 – 19, 21 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Yyyyy.NE, where yyyy = 2016 – 2019, 2021 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.CANyyNE.SA.V1, where yy = 16 – 19, 21 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF10D.YyyyyE, where yyyy = 2016 – 2019, 2021 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.YyyyyNE, where yyyy = 2016 – 2019, 2021(N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.C10ANyy.E.SA.V1, where yy = 16 – 19, 21 (N = n/a) (SAS file format)

Finalized Annuals Output Observations				
Year	Enrolled	Non-enrolled	Enrolled 10%	Non-enrolled 10%
2016	19,955,516	17,546,667	1,994,387	1,752,132
2017	19,738,384	17,763,799	1,972,187	1,774,332
2018	19,438,339	18,063,844	1,941,906	1,804,613
2019	19,068,601	18,433,582	1,904,928	1,841,591
2020	18,504,870	18,997,313	1,848,906	1,897,613
2021	17,572,446	19,929,737	1,756,352	1,990,167

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.FINyyyy, where yyyy=2016-2019, 2021

APPROXIMATE PROCESSING TIME: On average, 4 hours 30 minutes per JCL program

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Review frequencies and means of key finalized variables compared to previous DAF
- Proc Contents Comparison of Finalized Annuals output files to previous DAF year’s files

Step 3c

PURPOSE:
- Finalize and split annuals files into enrolled and non-enrolled for years 2020.
- Additionally, produce contents for all output datasets.

DATE EXECUTED: 01/06/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ANN.PRDLIB(FINyyyy), where yyyy = 2020 (See Appendix A.154)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.ANN.PRDLIB(FINANN16) years 2020 (See Appendix A.157)
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.PRDLIB(LABELS) (See Appendix A.159)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF2II.Yyyyy.SA.V1, yyyy = 2020 (N = 37,486,997) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWyyyy.SA.V1, yyyy = 2020 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.ZIPFIPyy.SA.V1, yy= 20 (N=75,699,978) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.MASTFIND.SA.V1 (N=36,763,625) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.SSR2020.SA.V1 (N=21,169,017) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.COMBCERE.SA.V1 (N=7,634,256) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.YyyyyE, where yyyy = 2020 (N = see Step 3b) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.CANyyE.SA.V1, where yy = 20 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Yyyyy.NE, where yyyy = 2020 (N = see Step 3b) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.CANyyNE.SA.V1, where yy = 20 (N = n/a) (SAS file format)

OPDR.TG.PRD.ETTW.FINAL.DAF10D.YyyyyE, where yyyy = 2020 (N = see Step 3b) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.YyyyyNE, where yyyy = 2020(N = see Step 3b) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF21P.C10ANyy.E.SA.V1, where yy = 20 (N = n/a) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.ANN.FINyyyy, where yyyy=2020

APPROXIMATE PROCESSING TIME: 5 hours 12 minutes

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Review frequencies and means of key finalized variables compared to previous DAF
- Proc Contents Comparison of Finalized Annuals output files to previous DAF year’s files

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 5

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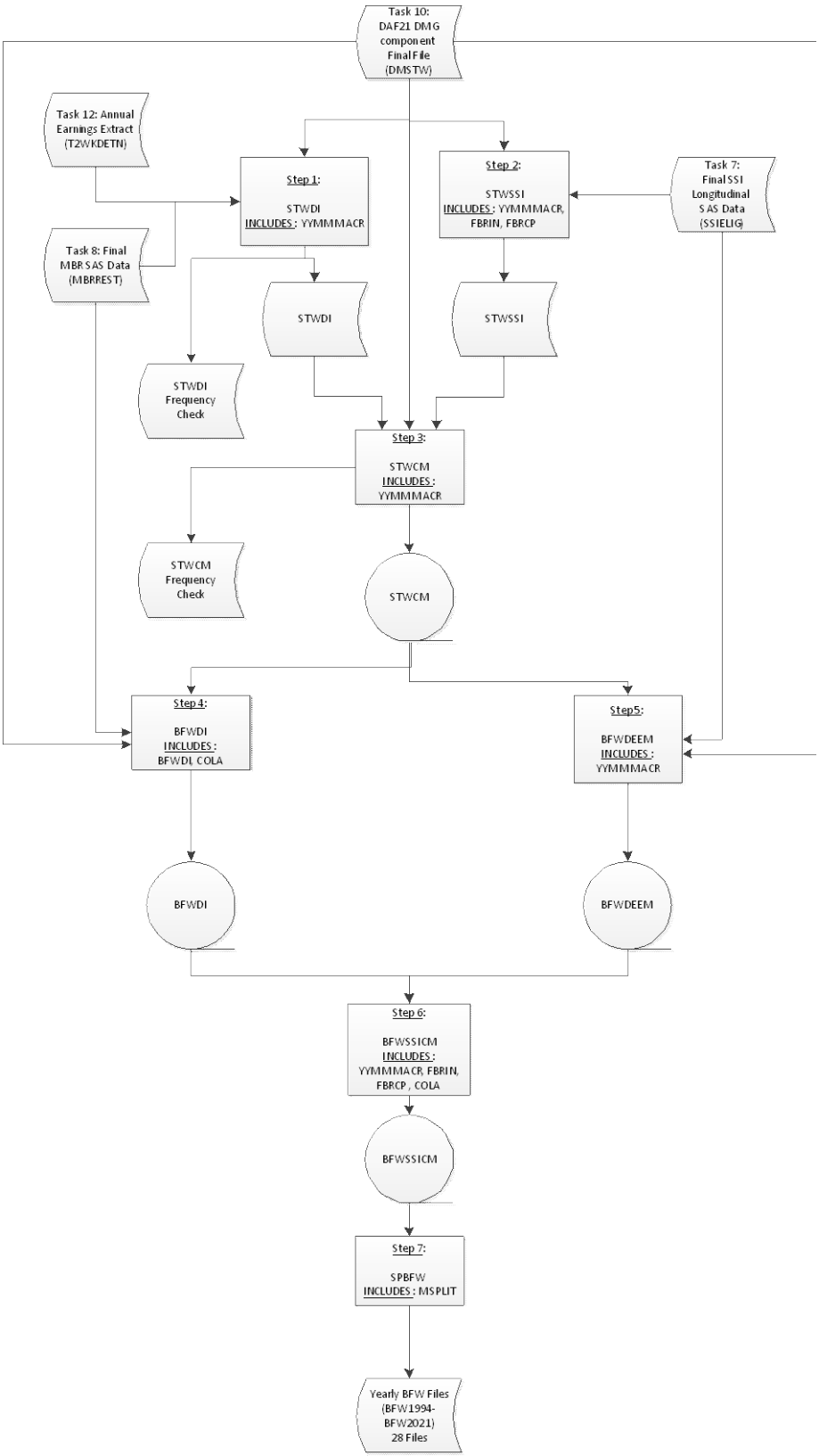
Task 14. Create Suspense or Termination for Work (STW) and Benefits Foregone for Work (BFW) variables



Task No.: 14	**Task Name:** Create Suspense or Termination for Work (STW) and Benefits Foregone for Work (BFW) Variables

Summary: The purpose of this task is to:

1. Create suspended or terminated for work flags for SSDI, SSI, and SSDI/SSI concurrent beneficiaries.
2. Create benefits forgone for work variables for SSDI and SSI beneficiaries.

Step 1

PURPOSE:
Combine final MBR data with DAF DMG component data and DCF TWP data. Construct STW indicators for SSDI beneficiaries.

DATE EXECUTED: 10/28/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(STWDI) (See Appendix A.160)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (N= 24,483,604) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.T2WKDETN.SA.V1 (N= 3,782,023) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWDI.SA.V1 (N= 24,482,202) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWDIFQ.SA.V1 (N = N/A) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.STWDI

APPROXIMATE PROCESSING TIME: 06 hours 21 minutes 29 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Compare the ratio of observations of the STWDI output to MBR input and examine trends among current and previous years

	Ratio (SWTDI output/MBR Input)*100
DAF18	99.993%
DAF19	99.994%
DAF20	99.994%
DAF21	99.994%

- Trend graph comparison of STWDIyymm distributions between current DAF, previous DAF, and two previous DAF's

Step 2

PURPOSE:
Combine final SSR data with DAF DMG component data. Construct STW indicators for SSI beneficiaries.

DATE EXECUTED: 10/29/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(STWSSI) (See Appendix A.161)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1(N= 21,557,838) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWSSI.SA.V1 (N= 19,707,171) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.STW.STWSSI

APPROXIMATE PROCESSING TIME: 03 hours 40 minutes 09 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Trend graph comparison of STWSSIyymm distributions between current DAF, previous DAF, and two previous DAF's

Step 3

PURPOSE:
Combine the program-specific SSI and SSDI STW indicators and construct across programs.

DATE EXECUTED: 10/30/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(STWCM) (Appendix A.162)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWSSI.SA.V1 (N= 19,707,171) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWDI.SA.V1 (N= 24,482,202) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWCM.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWCMFQ.SA.V1 (N=N/A) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.STWCM

APPROXIMATE PROCESSING TIME: 04 hours 19 minutes 12 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in the STWCM output file is the same as DMSTW input file
- Trend graph comparison of STWCMyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 4

PURPOSE:
Combine MBR final file with DAF DMG component data, and STW indicators file. Construct BFW indicators for SSDI beneficiaries.

DATE EXECUTED: 10/31/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(BFWDI) (See Appendix A.163)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWCM.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.MBRREST.SA.V1 (N= 24,483,604) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWDI.SA.V1 (N=37,522,156) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.BFWDI

APPROXIMATE PROCESSING TIME: 07 hours 11 minutes 07 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in the BFWDI output file is the same as DMSTW input file
- Trend graph comparison of BFWDIyymm, BFWDI_PRIMyymm, and BFWDI_DEPENDyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 5

PURPOSE:
Combine final SSR data with DAF DMG component data, and STW indicators file to calculate non-earned income values necessary for constructing the STW indicators.

DATE EXECUTED: 11/1/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(BFWDEEM) (See Appendix A.164)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWCM.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N= 21,557,838) (SAS file format)
OPDR.TG.PRD.ETTW.# 8047.DAFP21P.DMSTW.SA.V1 (N= 37,522,156) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWDEEM.SA.V1 (N= 37,522,156) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.STW.BFWDEEM

APPROXIMATE PROCESSING TIME: 10 hours 45 minutes 47 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in the BFWDEEM output file is the same as DMSTW input file
- Trend graph comparison of BFWSSIyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 6

PURPOSE:
Construct the SSI BFW and, in combination with the SSDI BFW variables, also construct the combined measure.

DATE EXECUTED: 11/1/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(BFWSSICM) (See Appendix A.165)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWDEEM.SA.V1 (N= 37,522,156) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWDI.SA.V1 (N= 37,522,156) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWSSICM.SA.V1 (N= 37,522,156) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.STW.BFWSSICM

APPROXIMATE PROCESSING TIME: 15 hours 59 minutes 24 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in the BFWSSICM output file is the same as both BFWDI and BFWDEEM input files
- Trend graph comparison of BFWCMyymm distributions between current DAF, previous DAF, and two previous DAF’s
- Proc Contents Comparison of BFWSSICM output file to previous DAF year’s file

Step 7

PURPOSE:
Split BFW and STW indicators combined file into Annual files.

DATE EXECUTED: 11/02/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.PRDLIB(SPBFW) (See Appendix A.166)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWSSICM.SA.V1 (N= 37,522,156) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFW*yyyy*.SA.V1 where *yyyy*=1994-current DAF year (N= 37,522,156) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.STW.SPBFW

APPROXIMATE PROCESSING TIME: 16 hours 13 minutes 14 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in the yearly BFW output files are the same as full BFWSSICM input file

Data Documentation: N/A

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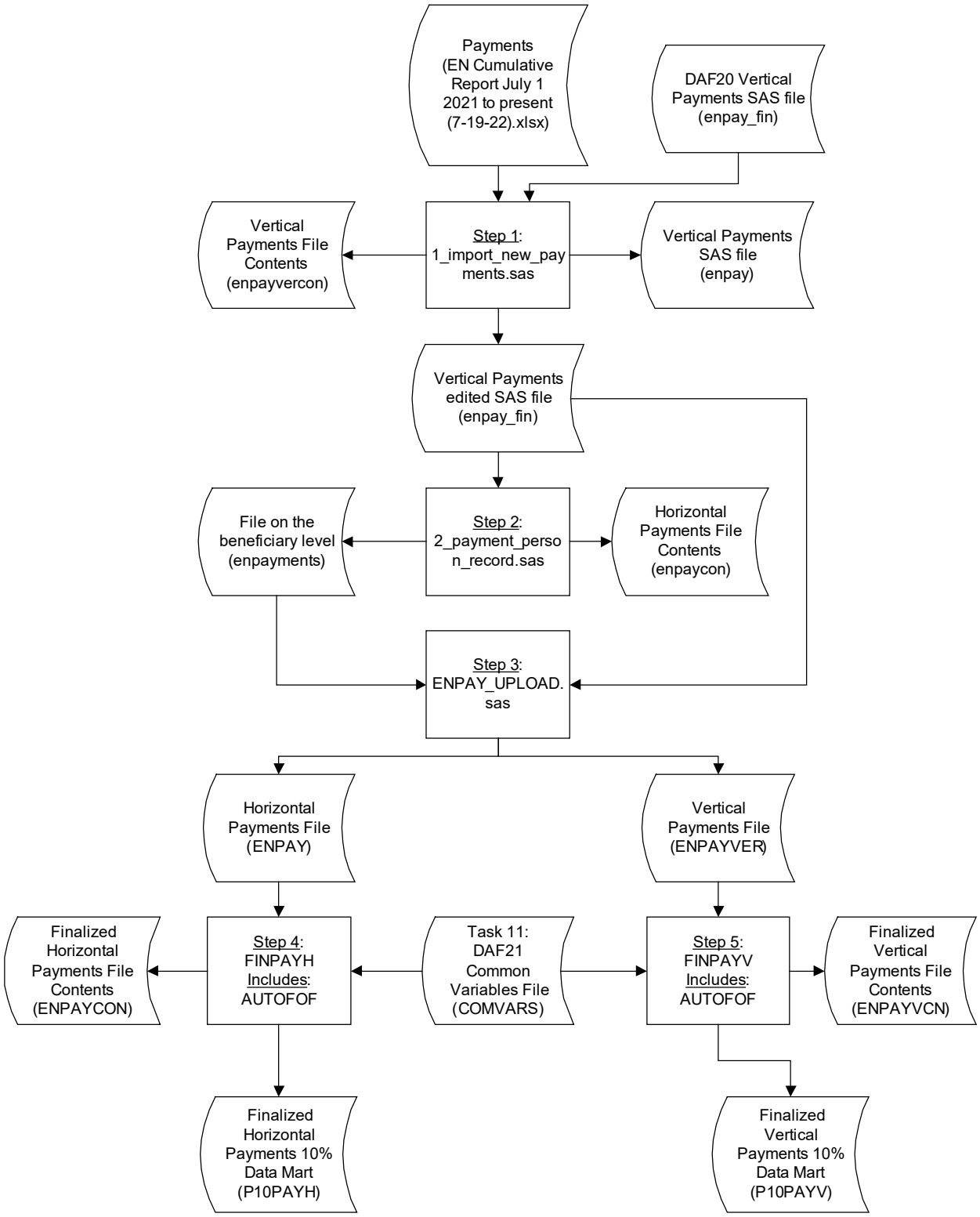
Task 15. Process EN payments data



Task No.: 15	**Task Name:** Process EN Payments Data

Summary: The purpose of this task is to:

1. Compile data about payments made to providers under the Milestone and Outcome or Outcome Only Ticket Payment systems.

Step 1

PURPOSE:
Clean the payment file and create the vertical file.

DATE EXECUTED: 07/21/2022

MAIN PROGRAM:
M:\DAF21\TASK 15 Create EN Payments Component\Programs\1_import_new_payments.sas (See Appendix A.167)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\payment file with PII\EN Cumulative Report July 1 2021 to present (7-19-22).xlsx (N = 176,117 rows) (Excel file format)
M:\DAF20\TASK 15 Create Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,154,381) (SAS file format)

OUTPUT(S):
M:\DAF21\TASK 15 Create EN Payments Component\Data\PII\InputData\enpay.sas7bdat (N = 176,117 – raw data read from Excel prior to processing (SAS file format)
M:\DAF21\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay.sas7bdat (N = 176,092– deduplicated by key variables) (SAS file format)
M:\DAF21\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,317,980) (SAS file format)
M:\DAF21\TASK 15 Create EN Payments Component\Data\Contents\enpayvercon.sas7bdat (N=15) (SAS file format)

LOG:
M:\DAF21\TASK 15 Create EN Payments Component\Programs\1_import_new_payments.log

APPROXIMATE PROCESSING TIME: 00 hours 08 minutes 07.50 seconds

QA:
- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in change
  - DAF18 input 200,734 rows (combined with DAF17 – 844,740 rows – increase of 18.3%)
  - DAF19 input 153,208 rows (combined with DAF18 – 997,933 rows – increase of 18.1%)
  - DAF20 input 159,445 rows (combined with DAF19 – 1,154,381 – increase of 15.68%)
  - DAF21 input 176,117 rows (combined with DAF20 – 1,317,980 – increase of 14.27%)

Step 2

PURPOSE:
Create the horizontal file for payments data.

DATE EXECUTED: 07/21/2022

MAIN PROGRAM:
M:\DAF21\TASK 15 Create EN Payments Component\Programs\2_payment_person_record.sas (See Appendix A.168)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF20\TASK 15 Create Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,317,980) (SAS file format)

OUTPUT(S):
M:\DAF20\TASK 15 Create Payments Component\Data\PII\OutputData\enpayments.sas7bdat (N=116,519)(SAS file format)
M:\DAF20\TASK 15 Create Payments Component\Data\PII\OutputData\enpaycon.sas7bdat (N=1,453)(SAS file format)

LOG:
M:\DAF21\TASK 15 Create EN Payments Component\Programs\2_payment_person_record.log

APPROXIMATE PROCESSING TIME: 00 hours 09 minutes 14.52 seconds

QA:
- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in change
  - In DAF18 had 82,693 observations
  - In DAF19 – 93,403 (increase of 13.0%)
  - In DAF20 – 103,913 (increase of 11.25%)
  - In DAF21 – 116,519 (increase of 12.13%)

Step 3

PURPOSE:
Upload payments data to mainframe.

DATE EXECUTED: 09/02/2021

MAIN PROGRAM:
M:\DAF21\TASK 15 Create EN Payments Component\Programs\ENPAY_UPLOAD.sas (See Appendix A.169)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 15 Create EN Payments Component\Data\PII\OutputData\enpayments.sas7bdat (N=116,519) (SAS file format)

M:\DAF21\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N =1,317,980) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21I.ENPAY.SA.V1 (N= 116,519) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21I.ENPAYVER.SA.V1 (N= 1,317,980) (SAS file format)

LOG:
M:\DAF21\TASK 15 Create Payments Component\Programs\ENPAY_UPLOAD.log

APPROXIMATE PROCESSING TIME: 00 hours 11 minutes 21.21 seconds

QA:

- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- In the SAS log, confirm that the number of observations and variables uploaded to the mainframe matches what is saved to the PC.

Step 4

PURPOSE:
Finalize horizontal payments file and create the corresponding 10% component file.

DATE EXECUTED: 10/05/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.ENPAY.PRDLIB(FINPAYH) (See Appendix A.170)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21I.ENPAY.SA.V1 (N= 116,519) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.ENPAY (N= 116,519) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.ENPAYCON.SA.V1 (N=n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10PAYH (N=11,611)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.ENPAY.FINPAYH

APPROXIMATE PROCESSING TIME: 00 hours 02 minutes 49 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in EN Payments Horizontal Input matches the number of observations in the EN Payments Horizontal Output
- Proc Contents Comparison of EN Payments Horizontal output file to previous DAF year’s file
- Confirm number of observations in EN Payments Horizontal 10% file is approximately 10% of observations in the full EN Payments Horizontal file
  - 11,611 (10% File) / 116,519 (Full File) = 9.965%

Step 5

PURPOSE:
Finalize vertical payments file and create the corresponding 10% component file.

DATE EXECUTED: 10/05/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.ENPAY.PRDLIB(FINPAYV) (See Appendix A.171)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N= 37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21I.ENPAYVER.SA.V1 (N= 1,317,980) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.ENPAYVER (N= 1,317,980) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.ENPYVCN.SA.V1 (N=n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10PAYV (N=131,433) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.ENPAY.FINPAYV

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 34 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in EN Payments Vertical Input matches the number of observations in the EN Payments Vertical Output
- Proc Contents Comparison of EN Payments Vertical output file to previous DAF year’s file
- Confirm number of observations in EN Payments Vertical 10% file is approximately 10% of observations in the full EN Payments Vertical file
  - 131,433 (10% File) / 1,317,980 (Full File) = 9.972%

Data Documentation: N/A

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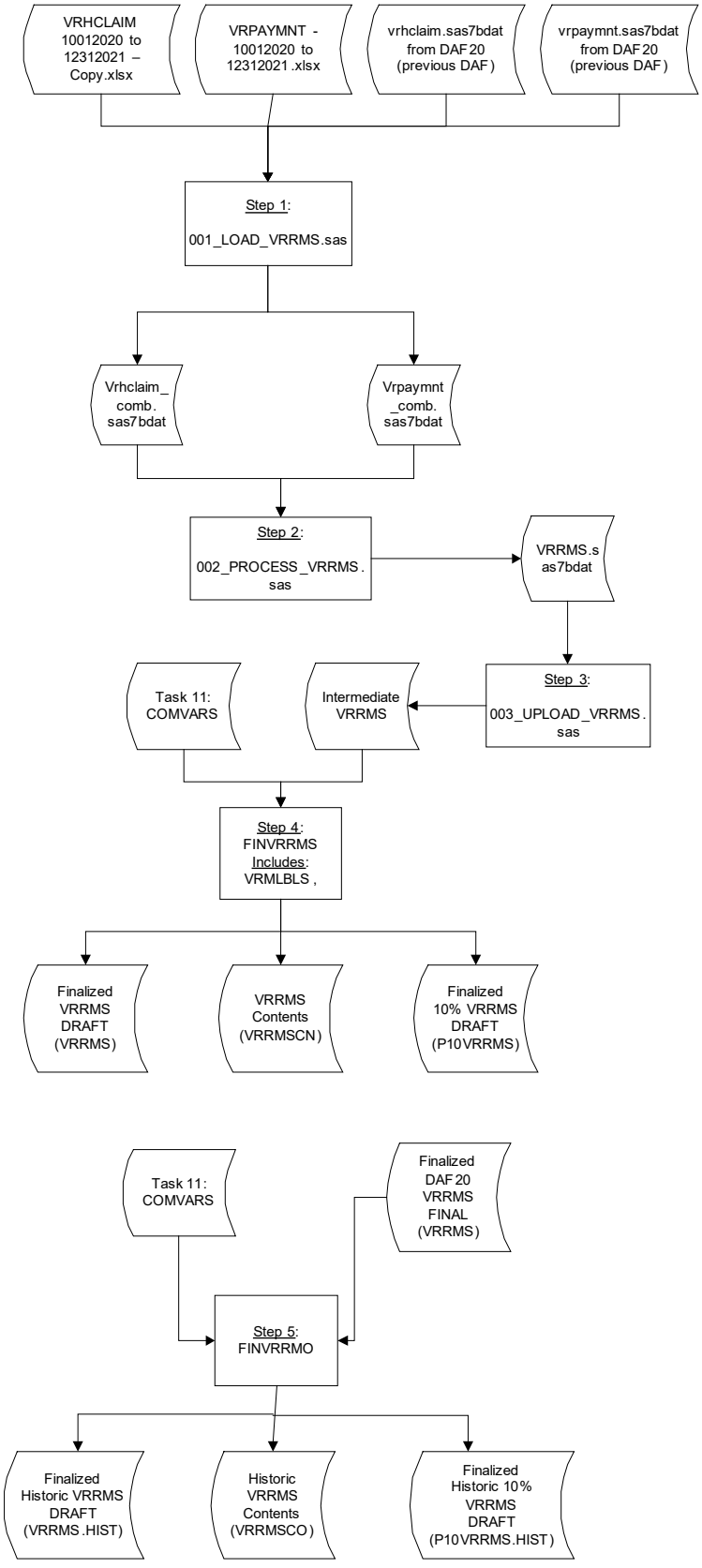
Task 16. Process VRMMS data



Task No.: 16	**Task Name:** Process VRRMS Data

Summary: The purpose of this task is to:

1. Create a finalized VRRMS dataset

Step 1

PURPOSE:

- Read in VRRMS excel file and convert to SAS format.
- Append VRRMS data from the previous DAF

DATE EXECUTED: 02/27/2023

MAIN PROGRAM:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\001_LOAD_VRRMS.sas (See Appendix A.172)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\Task 16 Create VRRMS Component\Version2\Data\Excel\VRHCLAIM 10012020 to 12312021 - Copy.xlsx (N = 27,988) (Excel file format)
M:\DAF21\Task 16 Create VRRMS Component\Version2\Data\Excel\VRPAYMNT - 10012020 to 12312021.xlsx (N = 18,005) (Excel file format)
M:\DAF20\TASK 16 Create VRRMS Component\Data\SAS\vrhclaim_comb.sas7bdat (N=136,892) (SAS file format)
M:\DAF20\TASK 16 Create VRRMS Component\Data\SAS\vrpaymnt_comb.sas7bdat (N=69,971) (SAS file format)

OUTPUT(S):
M:\DAF21\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim.sas7bdat (N = 27,988) (SAS file format)
M:\DAF21\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrpaymnt.sas7bdat (N = 18,005) (SAS file format)
M:\DAF21\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim_comb.sas7bdat (N = 140,199) (SAS file format)
M:\DAF21\TASK 16 Create VRRMS Component\ Version2\Data\SAS\vrpaymnt_comb.sas7bdat (N = 72,285) (SAS file format)

LOG:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\001_LOAD_VRRMS.log

APPROXIMATE PROCESSING TIME: 00 hours 03 minutes 06 seconds

QA:

- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in change

DAFxx	# Combined Claims Output	# Combined Payments Output
DAF19	121,016	43,222
DAF20	136,892	69,971
DAF21	156,343	80,664

Step 2

PURPOSE:
Create dataset based on one record per person.

DATE EXECUTED: 2/27/2023

MAIN PROGRAM:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\002_PROCESS_VRRMS.sas (See Appendix A.173)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim_comb.sas7bdat (N = 140,199) (SAS file format)
M:\DAF21\TASK 16 Create VRRMS Component\ Version2\Data\SAS\vrpaymnt_comb.sas7bdat (N = 72,285) (SAS file format)

OUTPUT(S):
M:\DAF21\Task 16 Create VRRMS Component\Version2\Data\Final\vrrms.sas7bdat (N = 61,660) (SAS file format)

LOG:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\002_PROCESS_VRRMS.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 43 seconds

QA:

- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output observation counts: check for reasonable trend in change

DAFxx	# VRRMS Output
DAF19	35,528
DAF20	59,802
DAF21	61,660

Step 3

PURPOSE:
Upload VRRMS data onto mainframe.

DATE EXECUTED: 02/28/2023

MAIN PROGRAM:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\003_UPLOAD_VRRMS.sas (See Appendix A.174)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\Task 16 Create VRRMS Component\Version2\Data\Final\vrrms.sas7bdat (N = 61,660) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.VRRMS.SA.V2 (N = 61,660) (SAS file format)

LOG:
M:\DAF21\Task 16 Create VRRMS Component\Version2\Programs\003_UPLOAD_VRRMS.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 41 seconds

QA:

- Search SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- In the SAS log, confirm that the number of observations and variables uploaded to the mainframe matches what is saved to the PC.

Step 4

PURPOSE:
Finalize VRRMS data and create the 10% file.

DATE EXECUTED: 2/28/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.VRRMS.PRDLIB(FINVRRMS) (See Appendix A.175)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.VRRMS.PRDLIB(VRMLBLS) (See Appendix A.176)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.VRRMS.SA.V2 (N = 61,660) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N = 37,502,183) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS (N = 61,660) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.VRRMSCN.SA.V1 (N = 238) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS (N = 6,189) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.VRRMS.FINVRRMS

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 50 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in VRRMS Input matches the number of observations in the Finalized VRRMS Output
- Proc Contents Comparison of VRRMS output file to previous DAF year’s file
- Confirm number of observations in VRRMS 10% file is approximately 10% of observations in the full VRRMS file:
  - 6,189 (10% File) / 61,660 (Full File) = 10.037%

Step 5

PURPOSE:
Create Historic VRRMS data.

DATE EXECUTED: 11/04/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.VRRMS.PRDLIB(FINVRRMO) (See Appendix A.177)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.COMVARS.SA.V1 (N = 37,502,183) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF20P.VRRMS.HIST (N = 248,321) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS.HIST (N = 248,321) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.VRRMSCO.SA.V1 (N=219) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS.HIST (N=24,894) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.VRRMS.FINVRRMO

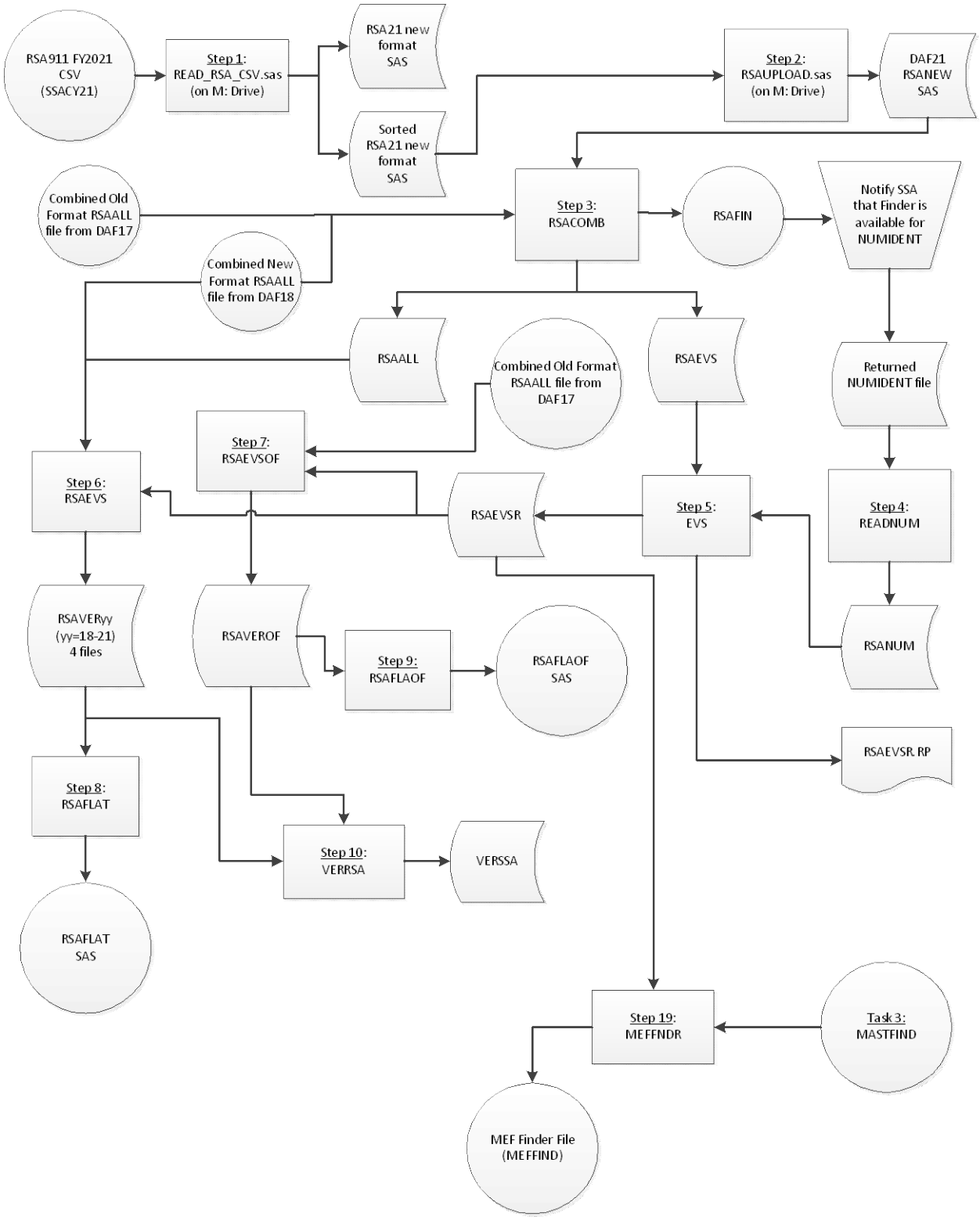
APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 15 seconds

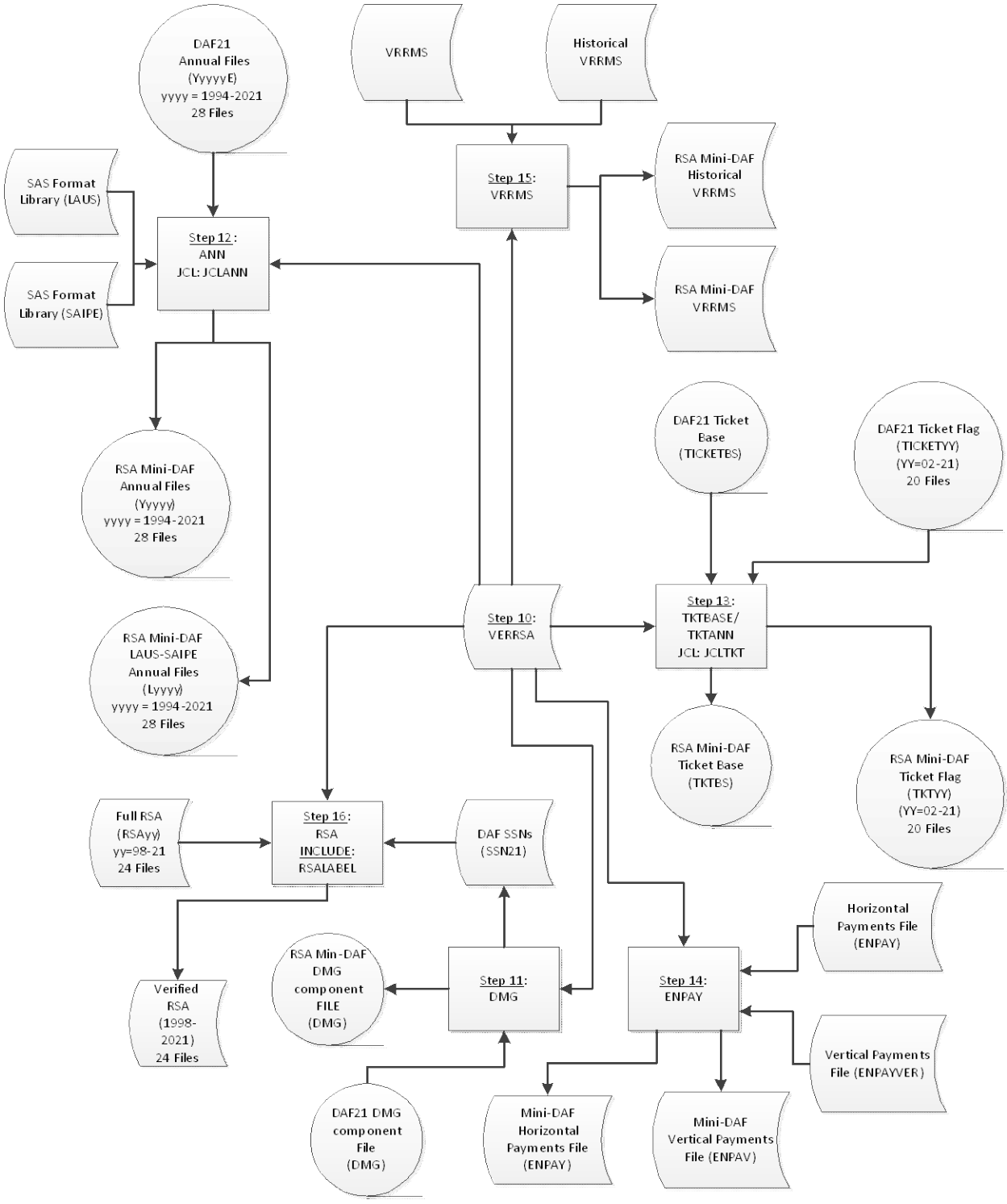
QA:

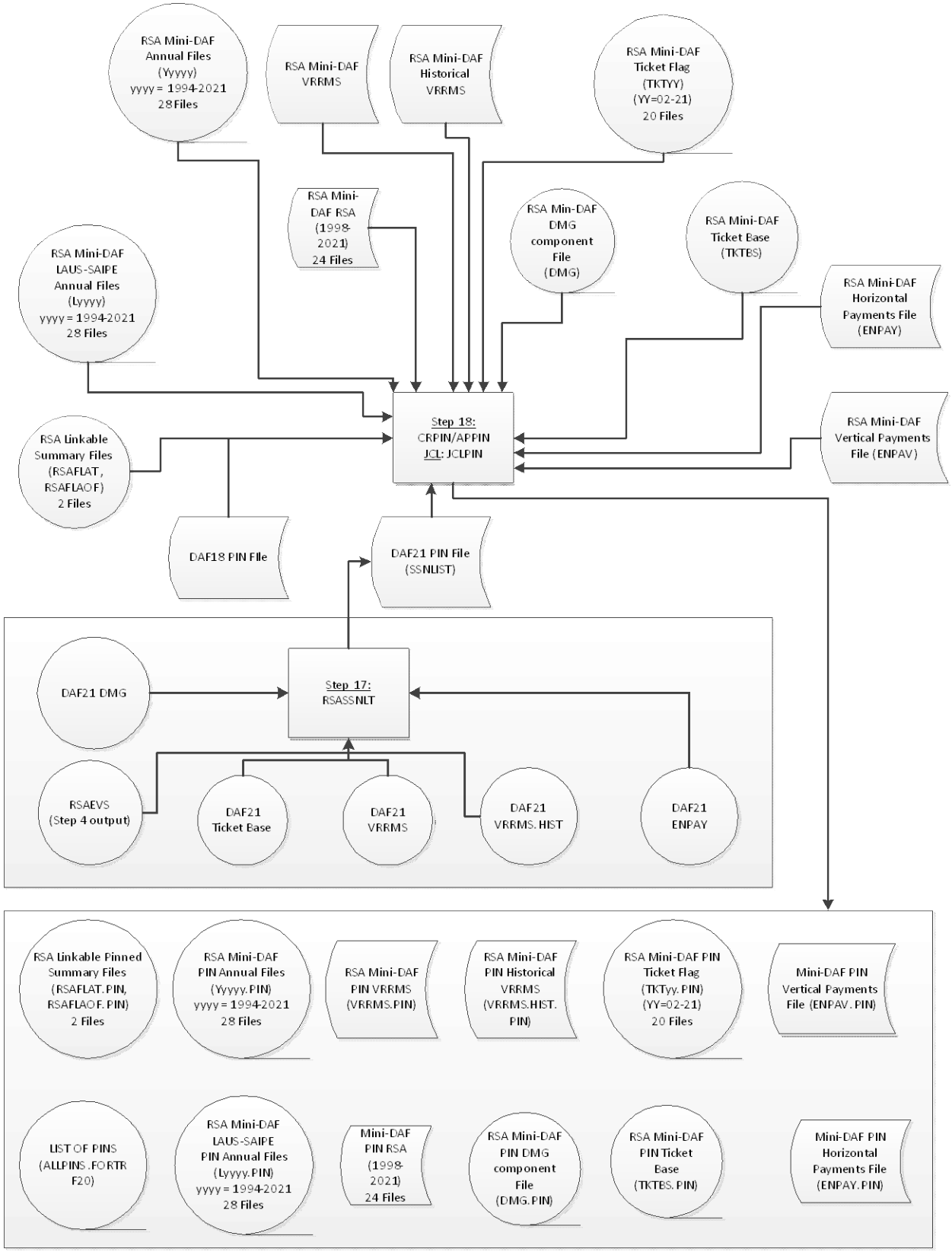
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in Historic VRRMS Input matches the number of observations in the Finalized Historic VRRMS Output
- Proc Contents Comparison of Historic VRRMS output file to previous DAF year’s file
- Confirm number of observations in Historic VRRMS 10% file is approximately 10% of observations in the full Historic VRRMS file:
  - 24,894 (10% File) / 248,321 (Full File) = 10.025%

Data Documentation: N/A
SSA Contact Staff: NAME: Paul O'Leary PHONE: (202) 358-6227 EMAIL: Paul.OLeary@ssa.gov

Task 17. Create DAF-RSA files




DAF21
Annual Files
(YyyyyE)
yyyy = 1994-2021
28 Files
VRRMS
Historical
VRRMS
SAS Format
Library (LAUS)
SAS Format
Library (SAIPE)
Step 12:
ANN
JCL: JCLANN
Step 15:
VRRMS
RSA Mini-DAF
Historical
VRRMS
RSA Mini-DAF
VRRMS
DAF21 Ticket
Base
(TICKETBS)
DAF21 Ticket Flag
(TICKETYY)
(YY=02-21)
20 Files
RSA Mini-DAF
Annual Files
(Yyyyy)
yyyy = 1994-2021
28 Files
Step 10:
VERRSA
Step 13:
TKTBASE/
TKTANN
JCL: JCLTKT
RSA Mini-DAF
LAUS-SAIPE
Annual Files
(Lyyyy)
yyyy = 1994-2021
28 Files
RSA Mini-DAF
Ticket Base
(TKTBS)
RSA Mini-DAF
Ticket Flag
(TKTYY)
(YY=02-21)
20 Files
Full RSA
(RSAyy)
yy=98-21
24 Files
Step 16:
RSA
INCLUDE:
RSALABEL
DAF SSNs
(SSN21)
Horizontal
Payments File
(ENPAY)
RSA Min-DAF
DMG
component
FILE
(DMG)
Step 11:
DMG
Step 14:
ENPAY
Verified
RSA
(1998-
2021)
24 Files
Vertical Payments
File (ENPAYVER)
DAF21 DMG
component
File
(DMG)
Mini-DAF
Horizontal
Payments File
(ENPAY)
Mini-DAF
Vertical Payments
File (ENPAV)


RSA Mini-DAF Annual Files (Yyyyy) yyyy = 1994-2021 28 Files
RSA Mini-DAF VRRMS
RSA Mini-DAF Historical VRRMS
RSA Mini-DAF Ticket Flag (TKTYY) (YY=02-21) 20 Files
RSA Mini-DAF RSA (1998-2021) 24 Files
RSA Min-DAF DMG component File (DMG)
RSA Mini-DAF Ticket Base (TKTBS)
RSA Mini-DAF LAUS-SAIPE Annual Files (Lyyyy) yyyy = 1994-2021 28 Files
RSA Mini-DAF Horizontal Payments File (ENPAY)
Step 18: CRPIN/APPIN JCL: JCLPIN
RSA Mini-DAF Vertical Payments File (ENPAV)
RSA Linkable Summary Files (RSAFLAT, RSAFLAOF) 2 Files
DAF18 PIN File
DAF21 PIN File (SSNLIST)
DAF21 DMG
Step 17: RSASSNLT
RSAEVS (Step 4 output)
DAF21 Ticket Base
DAF21 VRRMS
DAF21 VRRMS. HIST
DAF21 ENPAY
RSA Linkable Pinned Summary Files (RSAFLAT. PIN, RSAFLAOF. PIN) 2 Files
RSA Mini-DAF PIN Annual Files (Yyyyy. PIN) yyyy = 1994-2021 28 Files
RSA Mini-DAF PIN VRRMS (VRRMS. PIN)
RSA Mini-DAF PIN Historical VRRMS (VRRMS. HIST. PIN)
RSA Mini-DAF PIN Ticket Flag (TKTyy. PIN) (YY=02-21) 20 Files
Mini-DAF PIN Vertical Payments File (ENPAV. PIN)
LIST OF PINS (ALLPINS .FORTR F20)
RSA Mini-DAF LAUS-SAIPE PIN Annual Files (Lyyyy. PIN) yyyy = 1994-2021 28 Files
Mini-DAF PIN RSA (1998-2021) 24 Files
RSA Mini-DAF PIN DMG component File (DMG. PIN)
RSA Mini-DAF PIN Ticket Base (TKTBS. PIN)
Mini-DAF PIN Horizontal Payments File (ENPAY. PIN)

Task No.: 17	**Task Name:** Create DAF-RSA Files

Summary: The purpose of this task is to:

1. Create a set of files related to RSA (Rehabilitation Services Administration).

Step 1

PURPOSE:
This step begins Part 1 of the RSA process ("RSA Raw File Processing"). The main purpose of this Part is to read in RSA File and develop NUMIDENT Finders. This step specifically SAS loads the current year's RSA raw csv file.

DATE EXECUTED: 02/16/2023

MAIN PROGRAM:
M:\DAF21\TASK 17 Create DAF-RSA Files\Programs\Read_RSA_CSV.sas (See Appendix A.178)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\2021 RSA 911 raw file from Dept of Education\SSACY21.csv (N=1,331,979) (CSV File Format)

OUTPUT(S):
M:\DAF21\RSA\upd\rsa21.sas7bdat (N=1,331,979) (SAS File Format)

LOG: M:\DAF20\TASK 17 Create DAF-RSA Files\Programs\Read_RSA_CSV.log

APPROXIMATE PROCESSING TIME: 00 hours 14 minutes 00 seconds

QA:

- Manual search in log for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat
- Formal code review
- Year-to-year comparison of input/output record counts: check for reasonable trend in changes

RSA Year	Observations	% Change
CY17-18	1,646,029	
CY19	1,515,831	-8.59%
CY20	1,321,278	-14.72%
CY21	1,331,979	+0.8%

Step 2

PURPOSE:
Upload the SAS-loaded RSA 911 file to the mainframe.

DATE EXECUTED: 02/16/2023

MAIN PROGRAM:
M:\DAF21\TASK 17 Create DAF-RSA Files\Programs\UPLOAD_RSA.sas (See Appendix A.179)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\RSA\upd\rsa21.sas7bdat (N=1,331,979) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.RSA21NEW.SA.V1 (N=1,331,979) (SAS File Format)

LOG: M:\DAF21\TASK 17 Create DAF-RSA Files\Programs\UPLOAD_RSA.log

APPROXIMATE PROCESSING TIME:

QA:

- Manual search in log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat
- Formal code review
- Confirm that number of observations uploaded to the mainframe is the same as the PC SAS File

Step 3

PURPOSE:
Combine previous SAS-loaded RSAALL files with the current DAF’s RSA file and produce the NUMIDENT finder files.

DATE EXECUTED: 02/16/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(RSACOMB) (See Appendix A.180)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF17P.RSAALLOF.SA.V1 (N=11,900,356) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20.RSAALL.SA.V1 (N=4,483,138) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.RSA21NEW.SA.V1 (N=1,331,979) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21.RSAALL.SA.V1 (N=5,815,117) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVS.SA.V1 (N=17,715,473) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAFIN.FL.V1 (N =10,631,856) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.RSACOMB

APPROXIMATE PROCESSING TIME: : 00 hours 10 minutes 23 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 4

PURPOSE:
This step begins Part 2 of the RSA process ("RSA EVS Processing"). The main purpose of this Part is to run the EVS (verification) process. This step specifically processes the RSA NUMIDENT returns.

DATE EXECUTED: 03/09/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(READNUM) (See Appendix A.181)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.NUMI.RSADAF21.FLAT.R2303 (N=41,327,632) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSANUM.SA.V1 (N=10,519,581) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.READNUM

APPROXIMATE PROCESSING TIME: 00 hours 06 minutes 40 seconds

QA:

- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Compare ratio of input to output records against previous DAF years and check for reasonability.

	Recs IN	Recs OUT	Ratio
DAF19	39,105,529	10,111,625	25.9%
DAF20	39,880,572	10,277,756	25.8%
DAF21	41,327,632	10,519,581	25.5%

Step 5

PURPOSE:
Verify SSNs by comparing SSN, DOB, and GENDER on a supplied file against the RSA NUMIDENT File through the Mathematica EVS process.

DATE EXECUTED: 03/23/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(EVS) (See Appendix A.182)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSANUM.SA.V1 (N=10,519,581) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVS.SA.V1 (OBS=17,715,473) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.RP.V1 (N=12) (Text File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.SA.V1 (N= 17,715,473) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.EVS

APPROXIMATE PROCESSING TIME: 00 hours 10 minutes 23 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Comparison of year-to-year verification rates: check for reasonability

	Total Recs	Verified	Verification Rate	Not Verified					
				No Match		DOB		Gender	
DAF19	15,062,216	13,625,174	90.5%	824,997	5.5%	411,311	2.7%	200,734	1.3%
DAF20	16,383,494	14,529,689	88.7%	1,211,652	7.4%	426,853	2.6%	215,300	1.3%
DAF21	17,715,473	15,564,088	87.9%	1,515,452	8.6%	452,960	2.6%	182,973	1.0%

Step 6

PURPOSE:
Merge EVS results to post-2018 RSA years.

DATE EXECUTED: 04/06/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(RSAEVS) (See Appendix A.183)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.SA.V1 (N= 17,715,473) (SAS File Format)
OPDR.TG.PRD.ETTW.DAF18.RSANEW.SA.V1 (N=1,646,029) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA19NEW.SA.V1 (N=1,515,831) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA20NEW.SA.V1 (N=1,321,278) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.RSA21NEW.SA.V1 (N=1,331,979) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER18.SA.V1 (N=1,646,029) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER19.SA.V1 (N=1,515,831) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER20.SA.V1 (N=1,321,278) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER21.SA.V1 (N=1,331,979) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.RSAEVS

APPROXIMATE PROCESSING TIME: 00 hours 15 minutes 03 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-Year comparison of # output records and rate of records where VER_CODE = “Y”

	# Output Records	# VER_CODE = “Y”	% VER_CODE = “Y”
DAF18	1,646,029	1,228,145	74.6%
DAF19	1,515,831	1,054,499	69.6%
DAF20	1,321,278	904,704	68.5%
DAF21	1,331,979	901,272	67.7%

Step 7

PURPOSE:
Merge EVS results to pre-2018 RSA years.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(RSAEVSOF) (See Appendix A.184)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.SA.V1 (N= 17,715,473) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF17P.RSAALLOF.SA.V1 (N=11,900,356) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVEROF.SA.V1 (N= 11,900,356) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.RSAEVSOF

APPROXIMATE PROCESSING TIME: 14 MIN 08 SEC

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # output observations is the same as the RSAALLOF input file

Step 8

PURPOSE:
This step begins Part 3 of the RSA process (“RSA Linkable Processing”). The main purpose of this Part is to create the RSA Linkable files. This step specifically creates the post-2018 DAF-format (one record per SSN) RSA limited variable file.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(RSAFLAT) (See Appendix A.185)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER21.SA.V1 (N= 991,098 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER20.SA.V1 (N= 908,139 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER19.SA.V1 (N= 1,057,881 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER18.SA.V1 (N= 1,256,956 where ver_code="Y") (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.RSAFLAT (N= 2,070,577) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.RSAFLAT

APPROXIMATE PROCESSING TIME: 00 hours 04 minutes 17 seconds

QA:

- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review

Step 9

PURPOSE:
Create pre-2018 DAF-format (one record per SSN) RSA limited variable file.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(RSAFLAOF) (See Appendix A.186)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVEROF.SA.V1 (N= 11,350,014 where ver_code="Y") (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.RSAFLAOF (N= 8,555,180) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.RSAFLAOF

APPROXIMATE PROCESSING TIME: 00 hours 10 minutes 39 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 10

PURPOSE: Create file of verified RSA SSNs.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.PRDLIB(VERRSA) (See Appendix A.187)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVEROF.SA.V1 (N= 11,350,014 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER18.SA.V1 (N= 1,256,956 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER19.SA.V1 (N= 1,057,881 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER20.SA.V1 (N= 908,139 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAVER21.SA.V1 (N= 991,098 where ver_code=“Y”) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.VERRSA

APPROXIMATE PROCESSING TIME: 00 hours 05 minutes 59 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 11

PURPOSE:
This step begins Part 4 of the RSA process (“RSA Mini-DAF Processing”). The main purpose of this Part is to create the mini-DAF RSA Files. This step specifically creates DMG component file for RSA Mini-DAF, with SSNs.

DATE EXECUTED: 4/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(DMG) (See Appendix A.188)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21C.DMG (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.DMG (N= 5,008,017) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.RSADAF.SSN21.SA.V1 (N= 5,008,017) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.DEMO

APPROXIMATE PROCESSING TIME: 00 hours 57 minutes 15 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 12

PURPOSE: Create Annuals Files for RSA Mini-DAF and DAF-Linkable LAUS-SAIPE Files, with SSNs (all years).

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(JCLANN) (See Appendix A.189)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(ANN) (See Appendix A.190)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.Y*yyyy*E where *yyyy* =1994-2021 (N = varies) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.Y*yyyy* where *yyyy* = 1994-2021 (N= varies, see below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.L*yyyy* where *yyyy* = 1994-2021 (N= varies, see below) (SAS File Format)

Output Observations (in both the Annuals and LAUS/SAIPE extracts)
2021: 3,509,513
2020: 3,635,759
2019: 3,727,954
2018: 3,798,847
2017: 3,855,291
2016: 3,897,406
2015: 3,924,006
2014: 3,934,458
2013: 3,929,970
2012: 3,903,326
2011: 3,851,333

2010: 3,776,031
2009: 3,678,333
2008: 3,554,367
2007: 3,437,661
2006: 3,321,542
2005: 3,195,725
2004: 3,059,824
2003: 2,912,233
2002: 2,741,309
2001: 2,559,060
2000: 2,394,752
1999: 2,242,937
1998: 2,095,173
1997: 1,942,251
1996: 1,792,859
1995: 1,612,880
1994: 1,427,694

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.ANN

APPROXIMATE PROCESSING TIME: 15 hours 11 minutes 36 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 13

PURPOSE: Create TKT Base and Annuals for RSA Mini-DAF, with SSNs.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(JCLTKT) (See Appendix A.191)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(TKTBASE) (See Appendix A.192)
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(TKTANN) (See Appendix A.193)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKETBS (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKET*yy* where *yy*= 02-21 (N=28,570,366) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.TKTBS (N= 4,475,355) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.TKT*yy* where *yy*= 02-21(N=4,475,355) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.JCLTKT

APPROXIMATE PROCESSING TIME: 05 hours 05 minutes 06 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 14

PURPOSE: Create Payment Files for RSA Mini-DAF, with SSNs.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(ENPAY) (See Appendix A.194)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.ENPAY (N=116,519) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.ENPAYVER (N= 1,317,980) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.ENPAY (N= 66,065) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.ENPAV (N= 726,836) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.ENPAY

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 47 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 15

PURPOSE: Create VRRMS Files for RSA Mini-DAF, with SSNs.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(VRRMS) (See Appendix A.195)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS (N= 61,660) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS.HIST (N=248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.VRRMS (N= 59,441) (SAS File Format)

OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.VRRMS.HIST (N=209,934) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.VRRMS

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 37 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 16

PURPOSE: Create RSA-911 Verified SSN Closure Files, with SSNs.

DATE EXECUTED: 04/11/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(RSA) (See Appendix A.196)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(RSALABEL) (See Appendix A.197)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.RSADAF.SSN21.SA.V1 (N= 5,008,017) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA98.SA.V1 (N=599,359) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA99.SA.V1 (N=604,413) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA00.SA.V1 (N=624,250) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA01.SA.V1 (N=639,823) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA02.SA.V1 (N=643,415) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA03.SA.V1 (N=650,643) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA04.SA.V1 (N=654,040) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA05.SA.V1 (N=616,879) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA06.SA.V1 (N=617,149) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA07.SA.V1 (N=600,188) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA08.SA.V1 (N=618,054) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA09.SA.V1 (N=588,970) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA10.SA.V1 (N=612,537) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA11.SA.V1 (N=589,773) (SAS File Format)
OPDR.TG.PRD.ETTW.#3592.RSA12.SA.V1 (N=579,312) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.RSA13.SA.V1(N=589,402) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.RSA14.SA.V1(N=548,368) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.RSA15.SA.V1(N= 555,075) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.RSA16.SA.V1 (N=543,160) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA17OLD.SA.V1 (N =425,546) (SAS File Format)
OPDR.TG.PRD.ETTW.DAF18.RSANEW.SA.V1 (N = 1,646,029) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA19NEW.SA.V1 (N=1,515,831) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA20NEW.SA.V1 (N=1,321,278) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.RSA21NEW.SA.V1 (OBS=1,331,979) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.RSA*yy* where *yy*= 98-21 (N = varies, see below) (SAS File Format)

RSA Extract Output Observations
98: 564,204
99: 569,814
00: 588,360
01: 604,595
02: 611,491
03: 620,042
04: 625,269
05: 590,785
06: 591,588
07: 575,918
08: 593,296
09: 564,816
10: 587,455
11: 566,003
12: 556,721
13: 566,588
14: 521,764
15: 528,309
16: 517,149
17: 405,847
18: 1,256,956
19: 1,057,881
20: 908,139
21: 991,098

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.RSA

APPROXIMATE PROCESSING TIME: 00 hours 20 minutes 21 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 17

PURPOSE: Create a list of all SSNs to be PINNed.

DATE EXECUTED: 04/11/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(RSASSNLT) (See Appendix A.198)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.DMG (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.SA.V1 (N= 17,715,473) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKETBS (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS (N= 61,660) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS.HIST (N= 248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.ENPAY (N= 116,519) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SSNLIST.SA.V1 (N= 43,294,860) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.RSASSNLT

APPROXIMATE PROCESSING TIME: 01 hours 14 minutes 19 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- After de-duping, confirm that the number of RSA SSN’s matches that of RSAFIN.FL.V1 from Step #3
- The final output goes through one final PROC SORT with NODUPKEY. Confirm in the log that no additional duplicate observations were detected.

Step 18

PURPOSE: Create and apply PINS to files. These programs were run by SSA, so log, record counts for files which we don’t have access, execution date and processing times are unavailable.

DATE EXECUTED: N/A

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(JCLPIN) (See Appendix A.199)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(CRPIN) (See Appendix A.200)
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(APPIN) (See Appendix A.201)

INPUT(S):
OPDR.TG.PRD.RTWR.DAF20P.ALLPINS.FORTRF20 (N= N/A) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.SSNLIST.SA.V1 (N=43,294,860) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.DMG (N= 5,008,017) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.Y*yyyy* where *yyyy* = 1994-2021 (N=varies, see Step #12) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.L*yyyy* where *yyyy* = 1994-2021 (N=varies, see Step #12) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.TKTBS (N=4,475,355) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.TKT*yy* where *yy* = 02-21 (N=4,475,355) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.VRRMS (N=59,441) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.VRRMS.HIST (N=209,836) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.ENPAY (N=66,065) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.ENPAV (N=726,836) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.RSAFLAOF (N=8,555,180) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.RSAFLAT (N=2,070,577) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF21.RSA*yy* where *yy* = 98-21 (N=varies, see Step #16) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.RTWR.DAF21P.ALLPINS.FORTRF21 (N= N/A) (SAS File Format)

DAF DEMO EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.DEMO.PIN (N=5,008,017) (SAS File Format)

DAF ANNUALS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.Y*yyyy*.PIN where *yyyy* = 1994-2021 (N = varies, see below) (SAS File Format)
DAF ANNUAL LAUS/SAIPE EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF20.Lyyyy.PIN where yyyy = 1994-2021 (N = varies, see below) (SAS File Format)

Output Observations (in both the Annuals and LAUS/SAIPE extracts)
2021: 3,509,513
2020: 3,635,759
2019: 3,727,954
2018: 3,798,847
2017: 3,855,291
2016: 3,897,406
2015: 3,924,006
2014: 3,934,458
2013: 3,929,970
2012: 3,903,326
2011: 3,851,333
2010: 3,776,031
2009: 3,678,333
2008: 3,554,367
2007: 3,437,661
2006: 3,321,542
2005: 3,195,725
2004: 3,059,824
2003: 2,912,233
2002: 2,741,309
2001: 2,559,060
2000: 2,394,752
1999: 2,242,937
1998: 2,095,173
1997: 1,942,251
1996: 1,792,859
1995: 1,612,880
1994: 1,427,694

DAF TKT BASE EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.TKTBS.PIN (N=4,475,355) (SAS File Format)

DAF TKT ANNUALS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.TKT*yy*.PIN where *yy* = 02-21 (N=4,475,355) (SAS File Format)

RSA EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.RSA*yy*.PIN where *yy*=98-21 (N= varies, see below) (SAS File Format)

RSA ExtractOutput Observations
98: 564,204
99: 569,814
00: 588,360
01: 604,595
02: 611,491

03: 620,042
04: 625,269
05: 590,785
06: 591,588
07: 575,918
08: 593,296
09: 564,816
10: 587,455
11: 566,003
12: 556,721
13: 566,588
14: 521,764
15: 528,309
16: 517,149
17: 405,847
18: 1,256,956
19: 1,057,881
20: 908,139
21: 991,098

RSA DAF LINKABLE FILES FILES:
OPDR.TG.PRD.ETTW.RSAVER.DAF21P.RSAFLAOF.PIN (N=8,555,180) (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF20P.RSAFLAT.PIN (N=2,070,577) (SAS File Format)

VRRMS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.VRRMS.PIN (N= 59,441) (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF21.VRRMS.HIST.PIN (N=209,836) (SAS File Format)

PAYMENT EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF21.ENPAY.PIN (N= 66,065) (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF21.ENPAV.PIN (N= 726,836) (SAS File Format)

LOG: N/A

APPROXIMATE PROCESSING TIME: N/A

QA: N/A

Step 19

PURPOSE: Create the MEF Finder File.

DATE EXECUTED: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.RSADAF.PRDLIB(MEFFNDR) (See Appendix A.202)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.RSAEVSR.SA.V1 (N= 15,564,088 where ver_code = “Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1 (N=37,523,560) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.MEFFIND.FL.V1 (N = 42,589,574) (Flat File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.RSA.MEFFNDR

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 58 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: N/A

SSA Contact Staff:
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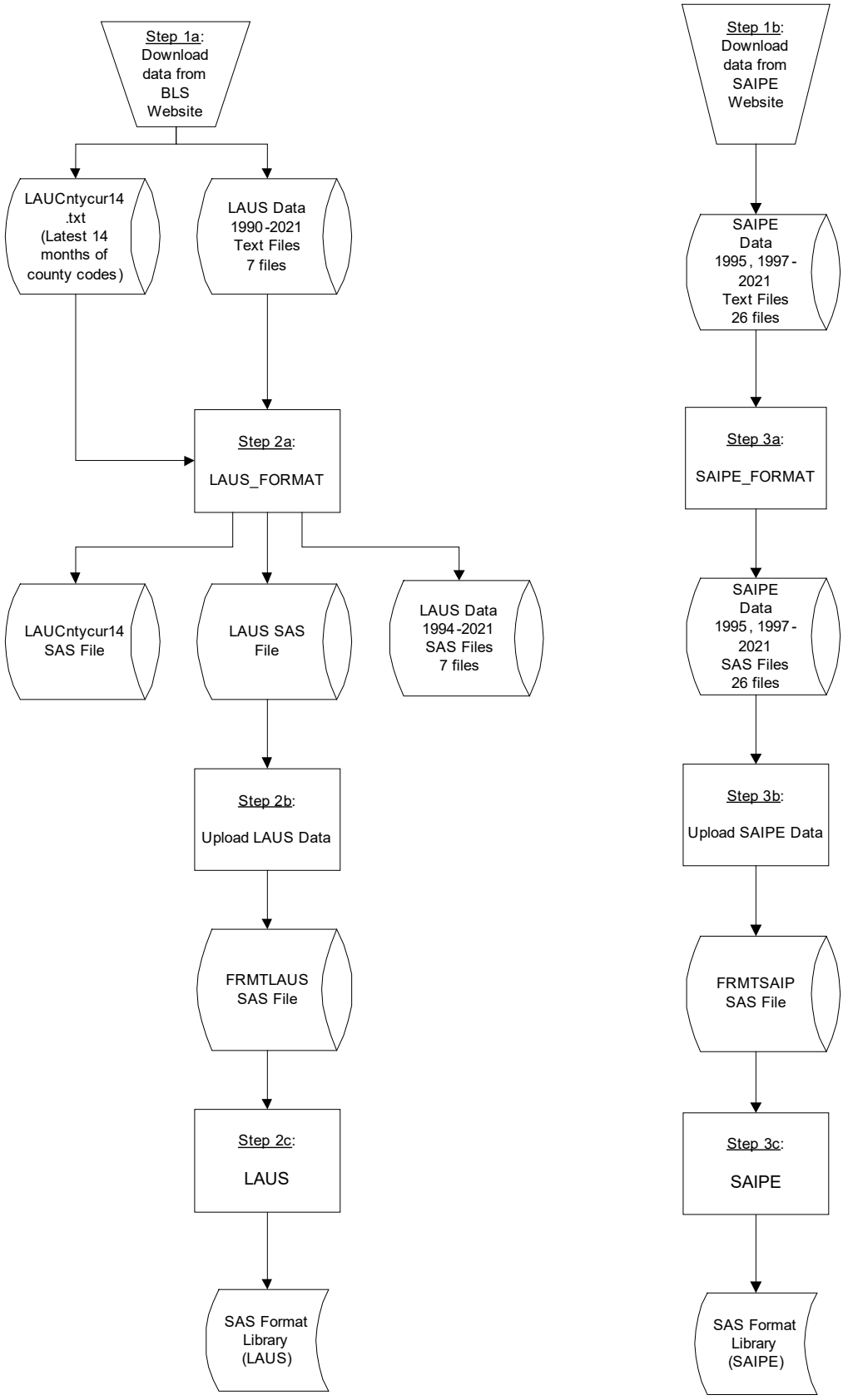
Task 18. Create LAUS and SAIPE SAS formats



Task No.: 18	**Task Name:** Create the LAUS/SAIPE SAS Formats

Summary: The purpose of this task is to:
1. Create a format library and the formats $LAUSyymm, $SAIPEINCyymm, and $SAIPEPOVyymm.

Step 1a

PURPOSE: Download data from BLS Website and save as LAUS text files on the M drive.

DATE EXECUTED: 12/12/2022

MAIN PROGRAM: N/A

INCLUDED SAS PROGRAM(S): N/A

INPUT(S): N/A

OUTPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\laucntycur14.txt (N=45,087) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU90-94.txt (N=2,011,659) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU95-99.txt (N=2,032,095) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU00-04.txt (N=2,116,855) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU05-09.txt (N=2,117,375) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU10-14.txt (N=2,162,823) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU15-19.txt (N=2,170,675) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU20-24.txt (N=767,165) (Flat File Format)

LOG: N/A

APPROXIMATE PROCESSING TIME: N/A

QA: N/A

Step 1b

PURPOSE: Download data from SAIPE Website and save as SAIPE text files on the M drive.

DATE EXECUTED: 12/22/2022

MAIN PROGRAM: N/A

INCLUDED SAS PROGRAM(S): N/A

INPUT(S): N/A

OUTPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est95all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est97all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est98all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est99all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est00all.txt (N=3,192) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est01all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est02all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est03all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est04all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est05all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est06all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est07all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est08all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est09all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est10all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est11all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est12all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est13all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est14all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est15all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est16all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est17all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est18all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est19all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est20all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est21all.txt (N=3,195) (Flat File Format)

LOG: N/A

APPROXIMATE PROCESSING TIME: N/A

QA: N/A

Step 2a

PURPOSE: SAS load the PC based LAUS text files and save as PC SAS files on the M drive.

DATE EXECUTED: 12/13/2022

MAIN PROGRAM:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\LAUS_FORMAT.SAS (This is a SAS program on PC) (See Appendix A.203)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\laucntycur14.txt (N=45,087) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU90-94.txt (N=2,011,659) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU95-99.txt (N=2,032,095) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU00-04.txt (N=2,116,855) (Flat File Format)

M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU05-09.txt (N=2,117,375) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU10-14.txt (N=2,162,823) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU15-19.txt (N=2,170,675) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU20-24.txt (N=767,165) (Flat File Format)

OUTPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\laucntycur14.sas7bdat (N=3,220) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_90_94.sas7bdat (N=92,448) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_95_99.sas7bdat (N=466,560) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_00_04.sas7bdat (N=486,120) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_05_09.sas7bdat (N=486,240) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_10_14.sas7bdat (N=496,728) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_15_19.sas7bdat (N=498,540) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\MER_20_24.sas7bdat (N= 200,352) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\laus.sas7bdat (N= 1,080,336) (SAS File Format)

LOG:
M:\DAF20\TASK 18 Create LAUS-SAIPE Formats\Programs \LAUS_FORMAT_2022-12-13.log

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 00 seconds

QA:

- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	DAF19	DAF20	DAF21	DAF19 to DAF20 % change	DAF20 to DAF21 % change
laucntycur14	3,219	3,219	3,220	0.00%	0.03%
MER_90_94	92,460	92,448	92,448	-0.01%	0.00%
MER_95_99	466,620	466,560	466,560	-0.01%	0.00%
MER_00_04	486,180	486,120	486,120	-0.01%	0.00%
MER_05_09	486,300	486,240	486,240	-0.01%	0.00%
MER_10_14	495,012	495,216	496,728	0.04%	0.31%
MER_15_19	496,572	496,932	498,540	0.07%	0.32%
MER_20_24	0	99,588	200,352	0.00%	101.2%
LAUS	1,003,368	1,041,996	1,080,336	3.85%	3.68%

Step 2b

PURPOSE: Upload the PC based SAS LAUS files onto the mainframe.

DATE EXECUTED: 12/15/2022

MAIN PROGRAM:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload LAUS Data.sas (See Appendix A.204)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\laus.sas7bdat (N=1,080,336) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.FRMTLAUS.SA.V1 (N=1,080,336) (SAS File Format)

LOG:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload LAUS Data.log

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 48 seconds

QA:

- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations uploaded to mainframe is same as number observations in PC SAS File

Step 2c

PURPOSE: Create $LAUSyymo from the uploaded data.

DATE EXECUTED: 12/15/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF21.LAUS.PRDLIB(LAUS) (See Appendix A.205)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF21P.FRMTLAUS.SA.V1 (N=1,080,336) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.LAUS.FMTLIB (N = N/A) (SAS Format Library)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF21.LAUS.LAUS

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 49 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Check the printout in the .lst portion of the log: START should equal LABEL.

Step 3a

PURPOSE: SAS load the PC based SAIPE text files and save as PC SAS files on the M drive.

DATE EXECUTED: 12/22/2022

MAIN PROGRAM:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\SAIPE_FORMAT.SAS (This is a SAS program on PC) (See Appendix A.206)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est95all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est97all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est98all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est99all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est00all.txt (N=3,192) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est01all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est02all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est03all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est04all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est05all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est06all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est07all.txt (N=3,193) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est08all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est09all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est10all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est11all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est12all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est13all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est14all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est15all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est16all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est17all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est18all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est19all.txt (N=3,194) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est20all.txt (N=3,195) (Flat File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est21all.txt (N=3,195) (Flat File Format)

OUTPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est95ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est97ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est98ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est99ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est00ALL.sas7bdat (N=3,192) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est01ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est02ALL.sas7bdat (N=3,193) (SAS File Format)

M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est03ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est04ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est05ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est06ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est07ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est08ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est09ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est10ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est11ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est12ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est13ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est14ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est15ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est16ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est17ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est18ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est19ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est20ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est21ALL.sas7bdat (N=3,195) (SAS File Format)

LOG:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\SAIPE_FORMAT _2022-12-22.log

QA:

- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations loaded into SAS match number of observations in raw file
- In the .lst file, confirm that FIPS should equal PCT_POV, and STATE should equal MED_INC

Step 3b

PURPOSE: Upload the PC based SAS SAIPE files onto the mainframe.

DATE EXECUTED: 12/22/2022

MAIN PROGRAM:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload SAIPE Data.sas (See Appendix A.207)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est95ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est97ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est98ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est99ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est00ALL.sas7bdat (N=3,192) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est01ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est02ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est03ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est04ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est05ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est06ALL.sas7bdat (N=3,193) (SAS File Format)

M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est07ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est08ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est09ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est10ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est11ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est12ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est13ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est14ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est15ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est16ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est17ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est18ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est19ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est20ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Output\est21ALL.sas7bdat (N=3,195) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.FRMTSAIP.SA.V1(N = 3,192-3,195) (SAS File Format) (contains the input datasets: EST95ALL, EST97ALL-EST21ALL)

LOG:
M:\DAF21\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload SAIPE Data.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 01 seconds

QA:
- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 3c

PURPOSE: Create $SAIPEPOV*yymo* and $SAIPEINC*yymo* formats from the uploaded data.

DATE EXECUTED: 12/22/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.LAUS.PRDLIB(SAIPE) (See Appendix A.208)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.FRMTSAIP.SA.V1 (N = 3,192-3,195) (SAS File Format)

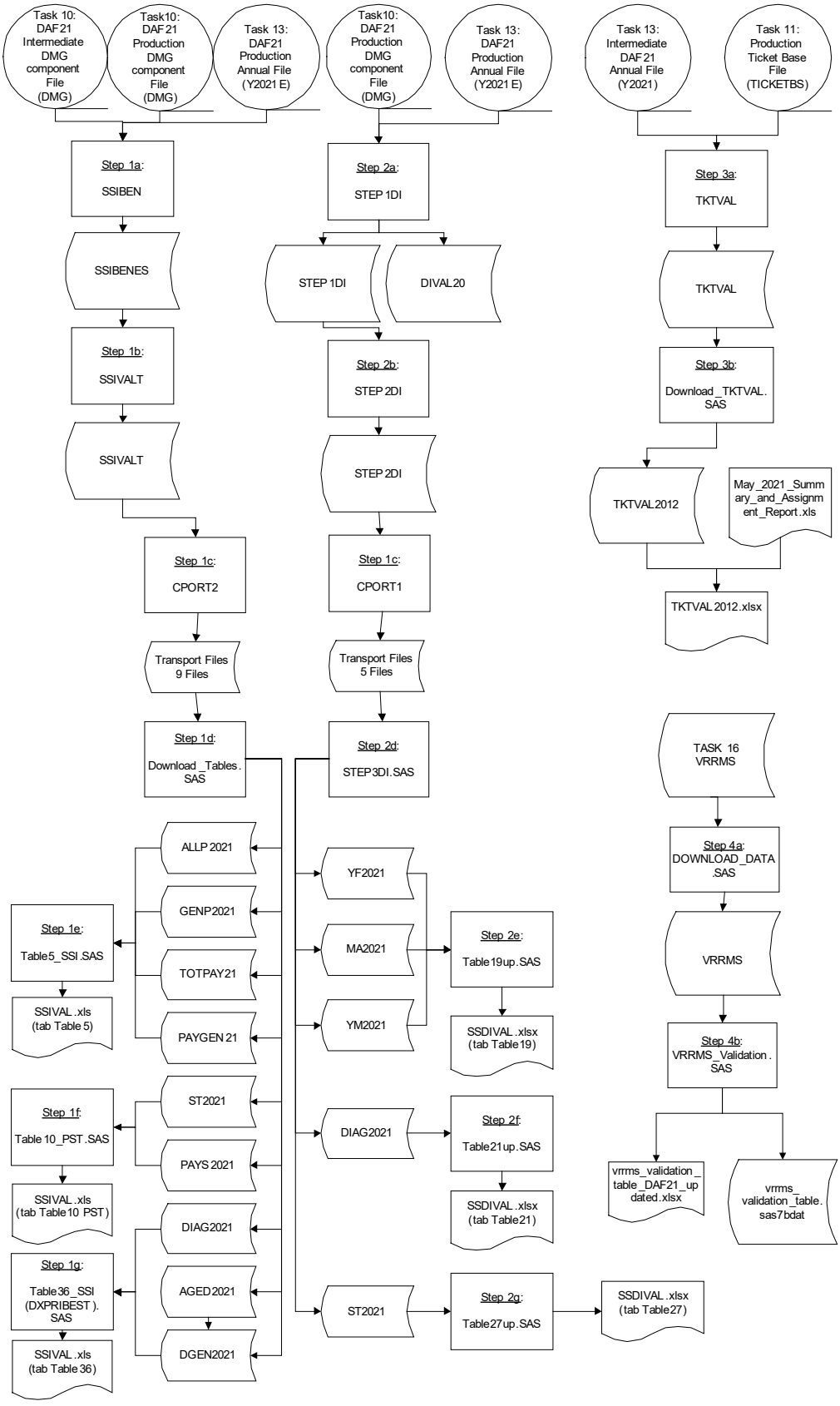
OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.SAIPE.FMTLIB (N = N/A) (SAS Format Library)

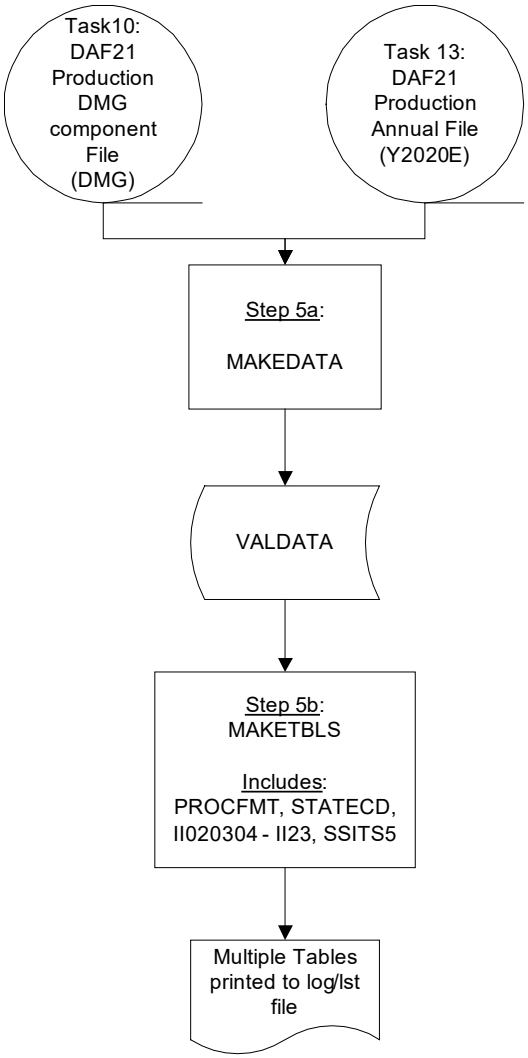
LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.LAUS.SAIPE

QA:
- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

• Confirm in lst portion of log that FIPS should equal PCT_POV and START should equal MED_INC
Data Documentation: N/A
SSA Contact Staff: NAME: Paul O'Leary PHONE: (202) 358-6227 EMAIL: Paul.OLeary@ssa.gov

Task 19. Validate the DAF




Task10: DAF21 Production DMG component File (DMG)
Task 13: DAF21 Production Annual File (Y2020E)
Step 5a:
MAKEDATA
VALDATA
Step 5b:
MAKETBLS
Includes:
PROCFMT, STATECD, II020304 - II23, SSITS5
Multiple Tables printed to log/lst file

Task No.: 19	**Task Name:** Validate the DAF

Summary: The purpose of this task is to:

1. Create SSI tables using the current year's DAF and validate the SSI tables against the tables published in the current year's SSI Annual Statistical Report by SSA.
2. Create SSDI tables using the current year's DAF and validate the SSDI tables against the tables published in the current year's Annual Statistical Report on the Social Security Disability Insurance Program by SSA.
3. Validate the DAF Ticket Data.
4. Validate the DAF VRRMS Data.
5. Create new SSI and SSDI tables (II.2 – II.23 in Volume 6 documentation) using the current year's DAF and validate the SSI/SSDI tables against the tables published in the current year's Annual Statistical Report by SSA.

Step 1a

PURPOSE: Create tables for SSI beneficiaries benchmarking.

DATE EXECUTED: 01/07/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(SSIBEN) (See Appendix A.209)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.DMG.SA.V1(N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Y2021E (N= 17,572,446) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.SSIBENES.SA.V1 (N= 17,572,439) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.SSIBEN
APPROXIMATE PROCESSING TIME: 2 hours 11 minutes 52 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Confirm that the number of observations in the output file is roughly the same as the current year's annual file

Step 1b

PURPOSE: Create tables 5, 10, and 36 for SSI beneficiaries benchmarking.

DATE EXECUTED: 01/09/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(SSIVALT) (See Appendix A.210)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.SSIBENES.SA.V1 (N= 17,572,439) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.SSIVALT.SA.V1 (N = N/A) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.SSIVALT

APPROXIMATE PROCESSING TIME: 0 hours 02 minutes 01 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 1c

PURPOSE: Download transport tables from mainframe to PC.

DATE EXECUTED: 01/09/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF21.VAL.PRDLIB(CPORT2) (See Appendix A.211)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.SSIVALT.SA.V1 (N = N/A) (SAS File Format)

OUTPUT(S):
#3590.XPORT.SSI.ALLP2021 (N=1) (XPT File Format)
#3590.XPORT.SSI.GENP2021 (N= 2) (XPT File Format)
#3590.XPORT.SSI.TOTPAY20 (N= 1) (XPT File Format)
#3590.XPORT.SSI.PAYGEN20 (N= 2) (XPT File Format)
#3590.XPORT.SSI.ST2021 (N= 220) (XPT File Format)
#3590.XPORT.SSI.PAYS2021 (N= 220) (XPT File Format)
#3590.XPORT.SSI.DIAG2021 (N= 1,956) (XPT File Format)
#3590.XPORT.SSI.AGED2021 (N= 2,552) (XPT File Format)
#3590.XPORT.SSI.DGEN2021 (N= 3,681) (XPT File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.VAL.CPORT2

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 01 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 1d

PURPOSE: Read transport files on PC.

DATE EXECUTED:

MAIN PROGRAM: M:\DAF21\Validation\SSI\PROGRAMS\Download_Tables.sas (See Appendix A.212)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\Validation\SSI\Data\allp2021.xpt (N=1) (XPT File Format)
M:\DAF21\Validation\SSI\Data\genp2021.xpt (N= 2) (XPT File Format)
M:\DAF21\Validation\SSI\Data\totpay2021.xpt (N= 1) (XPT File Format)
M:\DAF21\Validation\SSI\Data\paygen2021.xpt (N= 2) (XPT File Format)
M:\DAF21\Validation\SSI\Data\st2021.xpt (N= 220) (XPT File Format)
M:\DAF21\Validation\SSI\Data\pays2021.xpt (N= 220) (XPT File Format)
M:\DAF21\Validation\SSI\Data\diag2021.xpt (N= 1,874) (XPT File Format)
M:\DAF21\Validation\SSI\Data\aged2021.xpt (N= 2,444) (XPT File Format)
M:\DAF21\Validation\SSI\Data\dgen2021.xpt (N= 3,551) (XPT File Format)

OUTPUT(S):
M:\DAF21\Validation\SSI\Data\allp2021.sas7bdat (N=1) (SAS File Format)
M:\DAF21\Validation\SSI\Data\genp2021.sas7bdat (N=2) (SAS File Format)
M:\DAF21\Validation\SSI\Data\totpay2021.sas7bdat (N=1) (SAS File Format)
M:\DAF21\Validation\SSI\Data\paygen2021.sas7bdat (N=2) (SAS File Format)
M:\DAF21\Validation\SSI\Data\st2021.sas7bdat (N=220) (SAS File Format)
M:\DAF21\Validation\SSI\Data\pays2021.sas7bdat (N=220) (SAS File Format)
M:\DAF21\Validation\SSI\Data\diag2021.sas7bdat (N=1,874) (SAS File Format)
M:\DAF21\Validation\SSI\Data\aged2021.sas7bdat (N=2,444) (SAS File Format)
M:\DAF21\Validation\SSI\Data\dgen2021.sas7bdat (N=3,551) (SAS File Format)

LOG: M:\DAF21\Validation\SSI\PROGRAMS\Download_Tables.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 11 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 1e

PURPOSE: Read data for the current DAF into an excel shell for comparison to table 5 of the SSA SSI tables.

DATE EXECUTED:

MAIN PROGRAM: N:\51390_DAF21\Restricted\DC1\Validation\SSI\ Programs\Table5_SSI.sas (See Appendix A.213)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\allp2021.sas7bdat (N=1) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\genp2021.sas7bdat (N=2) (SAS File Format)

N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\totpay2021.sas7bdat (N=1) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\paygen2021.sas7bdat (N=2) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\ssival.xlsx (tab Table5) (N=N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\ Programs\Table5_SSI.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 37 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 1f

PURPOSE: Read data for the current DAF year into an excel shell for comparison to table 10 of the SSA SSI tables.

DATE EXECUTED:

MAIN PROGRAM:
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Programs\Table10_PST.sas (See Appendix A.214)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\st2021.sas7bdat (N=110) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\ssival.xlsx (tab Table10 PST) (N=N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Programs\Table10_PST.txt

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 20 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 1g

PURPOSE: Read data for the current DAF year into an excel shell for comparison to table 36 of the SSA SSI tables.

DATE EXECUTED:

MAIN PROGRAM:
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Programs\Table36_SSI (DXPRIBEST).sas (See Appendix A.215)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\diag2021.sas7bdat (N=3,551) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\aged2021.sas7bdat (N=2,444) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\dgen2021.sas7bdat (N=3,551) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\ssival.xlsx (tab Table36) (N=N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Programs\Table36_SSI (DXPRIBEST).txt

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 19 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 2a

PURPOSE: Create tables for SSDI beneficiaries benchmarking.

DATE EXECUTED: 01/07/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(STEP1DI) (See Appendix A.216)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG (N= 22,681,708 where BIC=”A”) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Y2021E (N= 17,572,446) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.STEP1DI.SA.V1 (N= 8,515,343) (SAS File Format)
OPDR.TG.PRD.ETTW.$4671.VAL21P.DIVAL21.SA.V1(N= 8,515,343) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.STEP1DI

APPROXIMATE PROCESSING TIME: 01 hours 26 minutes 05 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 2b

PURPOSE: Create tables 19, 21, and 27 for SSDI beneficiaries benchmarking.

DATE EXECUTED: 01/07/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(STEP2DI) (See Appendix A.217)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.DIVAL21.SA.V1(N= 8,515,343) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.STEP2DI.SA.V1 (N = N/A) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.STEP2DI

APPROXIMATE PROCESSING TIME: 00 hours 02 minutes 15 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 2c

PURPOSE: Create tables 19, 21, and 27 for SSDI beneficiaries benchmarking.

DATE EXECUTED:

MAIN PROGRAM: OPDR.TG.PRD.#.$4671.DAF21.VAL.PRDLIB(CPORT1) (See Appendix A.218)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.VAL21P.STEP2DI.SA.V1 (N = N/A) (SAS File Format)

OUTPUT(S):
#3590.XPORT.DIAG2021 (N= 1,949) (XPT File Format)
#3590.XPORT.MA2021 (N= 1) (XPT File Format)
#3590.XPORT.ST2021 (N= 896) (XPT File Format)
#3590.XPORT.YF2021 (N= 16) (XPT File Format)
#3590.XPORT.YM2021 (N= 2) (XPT File Format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.VAL.CPORT1

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 02 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 2d

PURPOSE: Read transport files on PC.

DATE EXECUTED:

AIN PROGRAM: M:\DAF21\Validation\SSDI\Programs\Step3DI.sas (See Appendix A.219)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\Validation\SSDI\Data\diag2021.xpt (N= 1,949) (XPT File Format)
M:\DAF21\Validation\SSDI\Data\ma2021.xpt (N= 1) (XPT File Format)
M:\DAF21\Validation\SSDI\Data\st2021.xpt (N= 896) (XPT File Format)
M:\DAF21\Validation\SSDI\Data\yf2021.xpt (N= 16) (XPT File Format)
M:\DAF21\Validation\SSDI\Data\ym2021.xpt (N= 2) (XPT File Format)

OUTPUT(S):
M:\DAF21\Validation\SSDI\Data\diag2021.sas7bdat (N=1,949) (SAS File Format)
M:\DAF21\Validation\SSDI\Data\ma2021.sas7bdat (N=1) (SAS File Format)
M:\DAF21\Validation\SSDI\Data\st2021.sas7bdat (N=896) (SAS File Format)
M:\DAF21\Validation\SSDI\Data\yf2021.sas7bdat (N=16) (SAS File Format)
M:\DAF21\Validation\SSDI\Data\ym2021.sas7bdat (N=2) (SAS File Format)

LOG: M:\DAF21\Validation\SSDI\Programs\Step3DI.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 05 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 2e

PURPOSE: Read data for current DAF year into an excel shell for comparison to table 19 of the SSA SSDI tables.

DATE EXECUTED:

MAIN PROGRAM:
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table19up.sas (See Appendix A.220)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\ma2021.sas7bdat (N=1) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\yf2021.sas7bdat (N=16) (SAS File Format)
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\ym2021.sas7bdat (N=2) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\ssdival.xlsx (tab Table 19) (N=N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table19up.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 05 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 2f

PURPOSE: Read data for current DAF year into an excel shell for comparison to table 21 of the SSA SSDI tables.

DATE EXECUTED:

MAIN PROGRAM:
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table21up.sas (See Appendix A.221)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\Data\diag2021.sas7bdat (N=1,949) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSI\ ssdival.xlsx (tab Table21) (N=N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table21up.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 09 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 2g

PURPOSE: Read data for current DAF year into an excel shell for comparison to table 27 of the SSA SSDI tables.

DATE EXECUTED:

MAIN PROGRAM:
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table27up.sas (See Appendix A.222)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Data\st2021.sas7bdat (N=896) (SAS File Format)

OUTPUT(S):
N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\ssdival.xlsx (tab Table27) (N = N/A)

LOG: N:\Project\51390_DAF21\Restricted\DC1\DAF21\Validation\SSDI\Programs\Table27up.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 18 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 3a

PURPOSE: Combine ticket base and current DAF annual file, keep active tickets, and create payment/provider flag variables.

DATE EXECUTED: 9/23/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.TKTVAL.PRDLIB(TKTVAL) (See Appendix A.223)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKETBS (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21I.Y2021.SA.V1 (N= 37,486,887) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21E.TKTVAL.SA.V1 (N = 56) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF21.TKTVAL.TKTVAL

APPROXIMATE PROCESSING TIME: 01 hours 06 minutes 52 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 3b

PURPOSE: Download the output file from Step 3a.

DATE EXECUTED: 9/26/2022

MAIN PROGRAM: M:\DAF21\Validation\Ticket\PROGRAMS\Download_TKTVAL.sas (See Appendix A.224)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21E.TKTVAL.SA.V1 (N = 56) (SAS File Format)

OUTPUT(S):
M:\DAF21\Validation\Ticket\OUTPUT\tktval2112.sas7bdat (N = 56) (SAS File Format)

LOG: M:\DAF21\Validation\Ticket\PROGRAMS\Download_TKTVAL.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 10 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 4a

PURPOSE: Download VRRMS data.

DATE EXECUTED: 2/27/2023

MAIN PROGRAM: M:\DAF21\Validation\VRRMS\DOWNLOAD_DATA.sas (See Appendix A.225)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS (N= 61,660) (SAS File Format)

OUTPUT(S):
M:\DAF21\Validation\VRRMS\VRRMS.sas7bdat (N= 61,660) (SAS File Format)

LOG: M:\DAF21\Validation\VRRMS \DOWNLOAD_DATA.log

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 28 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 4b

PURPOSE: Summarize VRRMS data for comparison to published statistics.

DATE EXECUTED: 2/27/2023

MAIN PROGRAM: M:\DAF21\Validation\VRRMS\VRRMS_Validation.sas (See Appendix A.226)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF21\Validation\VRRMS\VRRMS.sas7bdat (N= 61,660) (SAS File Format)

OUTPUT(S):
M:\DAF21\Validation\VRRMS\vrrms_validation_table.sas7bdat (N =6) (SAS File Format)
M:\DAF21\Validation\VRRMS\vrrms_validation_table_DAF21_updated.xlsx (N=N/A) (Excel Format)

LOG: M:\DAF21\Validation\VRRMS \VRRMS_Validation.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 37 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 5a

PURPOSE: Create analytic data file for populating Volume 6 SSDI and SSI tables shells.

DATE EXECUTED: 01/07/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(MAKEDATA) (See Appendix A.227)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(DXGROUPS) (See Appendix A.228)

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.Y2021E (N= 17,572,446) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.VAL20P.VALDATA.SA.V1 (N= 17,572,439) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.MAKEDATA

APPROXIMATE PROCESSING TIME: 00 hours 27 minutes 32 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 5b

PURPOSE: Create tables for Volume 6 documentation: II.2, II.3, II.4, II.5, II.6, II.7, II.8, II.9, II.10, II.11, II.12, II.13, II.14, II.16, II.17, II.18, II.19, II.20, II.21, II.22, and II.23

DATE EXECUTED: 01/10/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.PRDLIB(MAKETBLS) (See Appendix A.229)

INCLUDED SAS PROGRAM(S):
From the program library OPDR.TG.PRD.ETTW.#5413.DAF21.VAL.PRDLIB – PROCFMT, STATECD, II020304, II0506, II07, II0809, II1011, II12, II13, II14, II16, II17, II18, II19, II20, II21, II22, II23, SSITS5 (See Appendix A.230 – A.248)

INPUT(S):

OPDR.TG.PRD.ETTW.$4671.VAL21P.VALDATA.SA.V1 (N= 17,572,439) (SAS File Format)

OUTPUT(S):
Multiple tables printed to the SAS log/lst file (N= N/A) (SAS LOG/LST Format)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF21.VAL.MAKETBLS

APPROXIMATE PROCESSING TIME: 00 hours 36 minutes 12 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: N/A

SSA Contact Staff:
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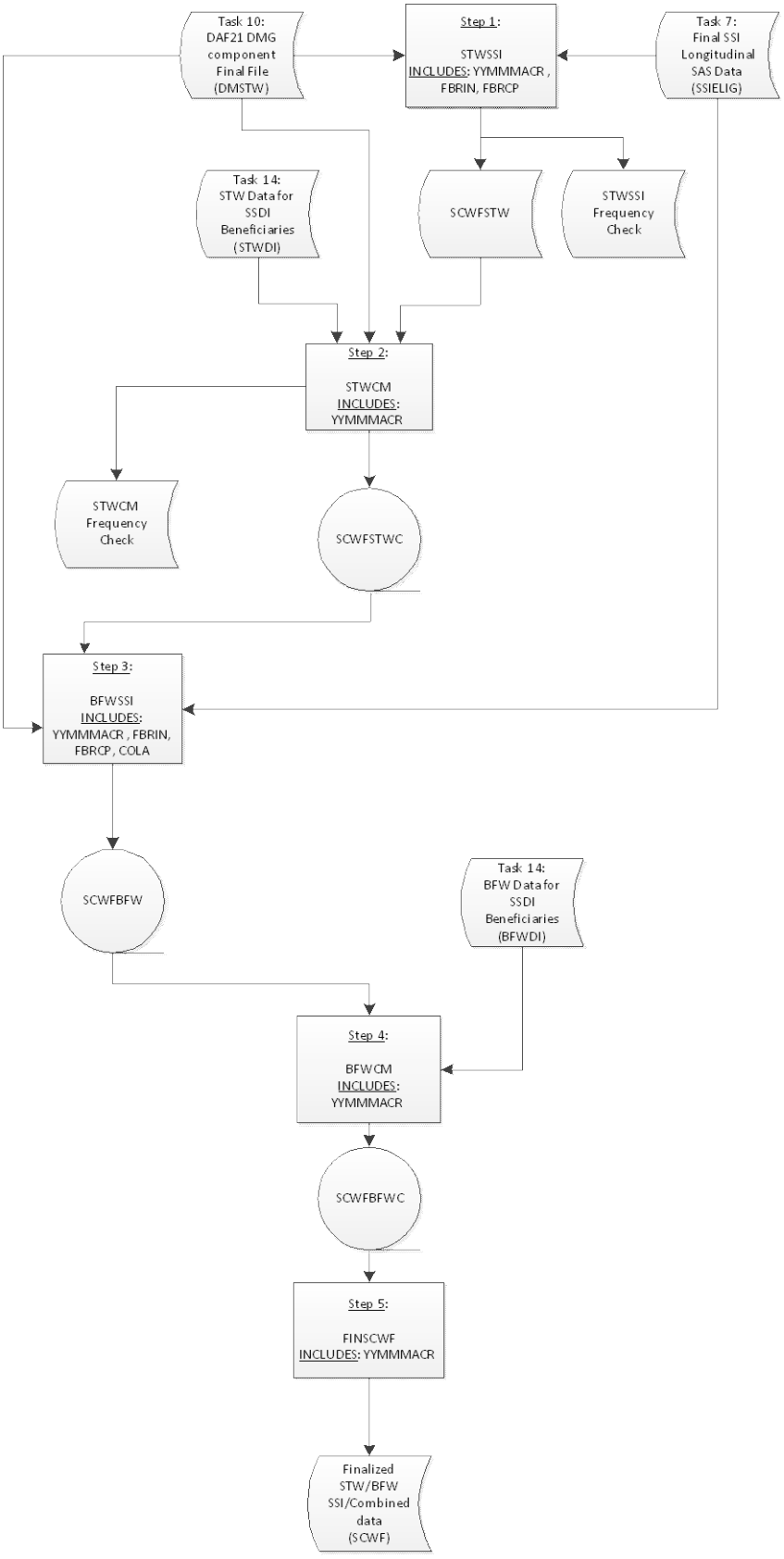
Task 20. Create SCWF



Task No.: 20	**Task Name:** Create SCWF

Summary: The purpose of this task is to:

1. Construct measure of Suspense or Termination for Work (STW) for SSI beneficiaries using historical algorithm.
2. Construct measure of Benefits Foregone for Work (BFW) for SSI beneficiaries using historical algorithm.

Step 1

PURPOSE:
Combine final SSR data with DAF DMG component data. Construct STW indicators for SSI beneficiaries.

DATE EXECUTED: 11/17/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(STWSSI) (See Appendix A.249)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1 (N= 21,557,838) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFSTW.SA.V1 (N= 19,707,171) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFSTWQ.SA.V1 (N = N/A) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.STWSSI

APPROXIMATE PROCESSING TIME: 02 hours 39 minutes 03 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Trend graph comparison of STWSSI_OLDyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 2

PURPOSE:
Combine Step 1 SSI with DAF DMG component data and Task 14 SSDI STW indicators. Construct combined STW indicators.

DATE EXECUTED: 11/17/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(STWCM) (See Appendix A.250)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFSTW.SA.V1 (N= 19,707,171) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.STWDI.SA.V1 (N= 24,482,202) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFSTWC.SA.V1 (N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFCFQ.SA.V1 (N= N/A)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.STWCM

APPROXIMATE PROCESSING TIME: 03 hours 18 minutes 09 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of STWCM output observations is equal to DMSTW input observations
- Trend graph comparison of STWCM_OLDyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 3

PURPOSE:
Combine Step 2 STW indicators file with SSR final file and DAF DMG component data. Construct BFW indicators for SSI beneficiaries.

DATE EXECUTED: 11/18/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(BFWSSI) (See Appendix A.251)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFSTWC.SA.V1 (N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIELIG.SA.V1(N= 21,557,838) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFBFW.SA.V1 (N=37,522,156) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.BFWSSI

APPROXIMATE PROCESSING TIME: 07 hours 54 minutes 24 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of BFWSSI output observations is equal to DMSTW input observations
- Trend graph comparison of BFWSSI_OLDyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 4

PURPOSE:
Combine final Step 3 BFW indicators data with Task 14 BFW indicators for SSDI beneficiaries to calculate monthly estimated benefits forgone for work indicators.

DATE EXECUTED: 11/20/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(BFWCM) (See Appendix A.252)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFBFW.SA.V1 (N= 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21P.BFWDI.SA.V1 (N= 37,522,156) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFBFWC.SA.V1 (N=37,522,156) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.BFWCM

APPROXIMATE PROCESSING TIME: 08 hours 30 minutes 18 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of input and output observations are equal
- Trend graph comparison of BFWCM_OLDyymm distributions between current DAF, previous DAF, and two previous DAF’s

Step 5

PURPOSE:
Finalize Step 4 BFW data, renaming monthly indicators.

DATE EXECUTED: 11/21/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(FINSCWF) (See Appendix A.253)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFBFWC.SA.V1 (N=37,522,156) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.SCWF (N=37,522,156) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.FINSCWF

APPROXIMATE PROCESSING TIME: 04 hours 14 minutes 35 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of input and output observations are equal
- Proc Contents Comparison of SCWF Component output file to previous DAF year’s file

PROGRAM: OPDR.TG.PRD.ETTW.<TSOID>.DAF<xx>.SCWF.PRDLIB(#CONCOMP)

INCLUDES: OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(CONCOMP)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF20P.SCWF (N= 37,522,156)
OPDR.TG.PRD.ETTW.DRAFT.DAF21.SCWF (N=)

OUTPUT(S): Contents comparison of current DAF to previous DAF printed to the log/list file.

LOG:
OPDR.TG.PRD.ETTW.<TSOID>.DAF<xx>.SCWF.CONCOMP

DATE EXECUTED: 11/22/2022

PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(SCWFCMCP)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21P.SCWFCFQ.SA.V1 (multiple freqs output)
OPDR.TG.PRD.ETTW.#8047.DAF20P.SCWFCFQ.SA.V1 (multiple freqs output)
OPDR.TG.PRD.ETTW.$4671.DAF19P.SCWFCFQ.SA.V1 (multiple freqs output)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF21Q.SCWFCMCM.SA.V1 (multiple freqs output)
M:\DAF21\TASK XX – SCWF\QA\DAF21_SCWF_STWCMP_FREQS.txt (plain-text file that contains only the frequencies, which should be transferred to MPR)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.SCWFCMCP

APPROXIMATE PROCESSING TIME: 0 HR 00 MIN 45 SEC

PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.PRDLIB(QASCWBFW)

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.SCWF (N = 37,522,156)

OUTPUT(S):
Multiple proc means output to the log
M:\DAF21\TASK XX – SCWF\QA\DAF21_SCWF_BFW_MEANS.txt (plain-text file that contains only the means, which should be transferred to MPR)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF21.SCWF.QASCWBFW

APPROXIMATE PROCESSING TIME: 04 hours 45 minutes 24 seconds

PROGRAM: N:\Project\51390_DAF21\Restricted\DC1\DAF21\TASK 20 - CREATE SCWF\QA\QA_SCWF.R

INPUT(S):
The following plain text files located at N:\Project\51390_DAF21\Restricted\DC1\DAF21\TASK 20 - CREATE SCWF\QA

- DAF21_SCWF_STWCMP_FREQS.txt txt (transferred from SSA)
- DAF21_SCWF_BFW_MEANS.txt txt (transferred from SSA)
- DAF20_SCWF_BFW_MEANS.txt (this was copied over from the previous year's folder)

OUTPUT(S):
The following plain pdf and csv files located at N:\Project\51390_DAF21\Restricted\DC1\DAF21\TASK 20 - CREATE SCWF\QA\Trend Graphs

- <STW or BFW measure>_Plot_Detail.csv for measures BFWCM_OLD, BFWSSI_OLD, STWCM_OLD, STWSSI_OLD
- Trend Graphs for <STW or BFW measure>.pdf for measures BFWCM_OLD, BFWSSI_OLD, STWCM_OLD, STWSSI_OLD

Data Documentation: N/A

SSA Contact Staff:
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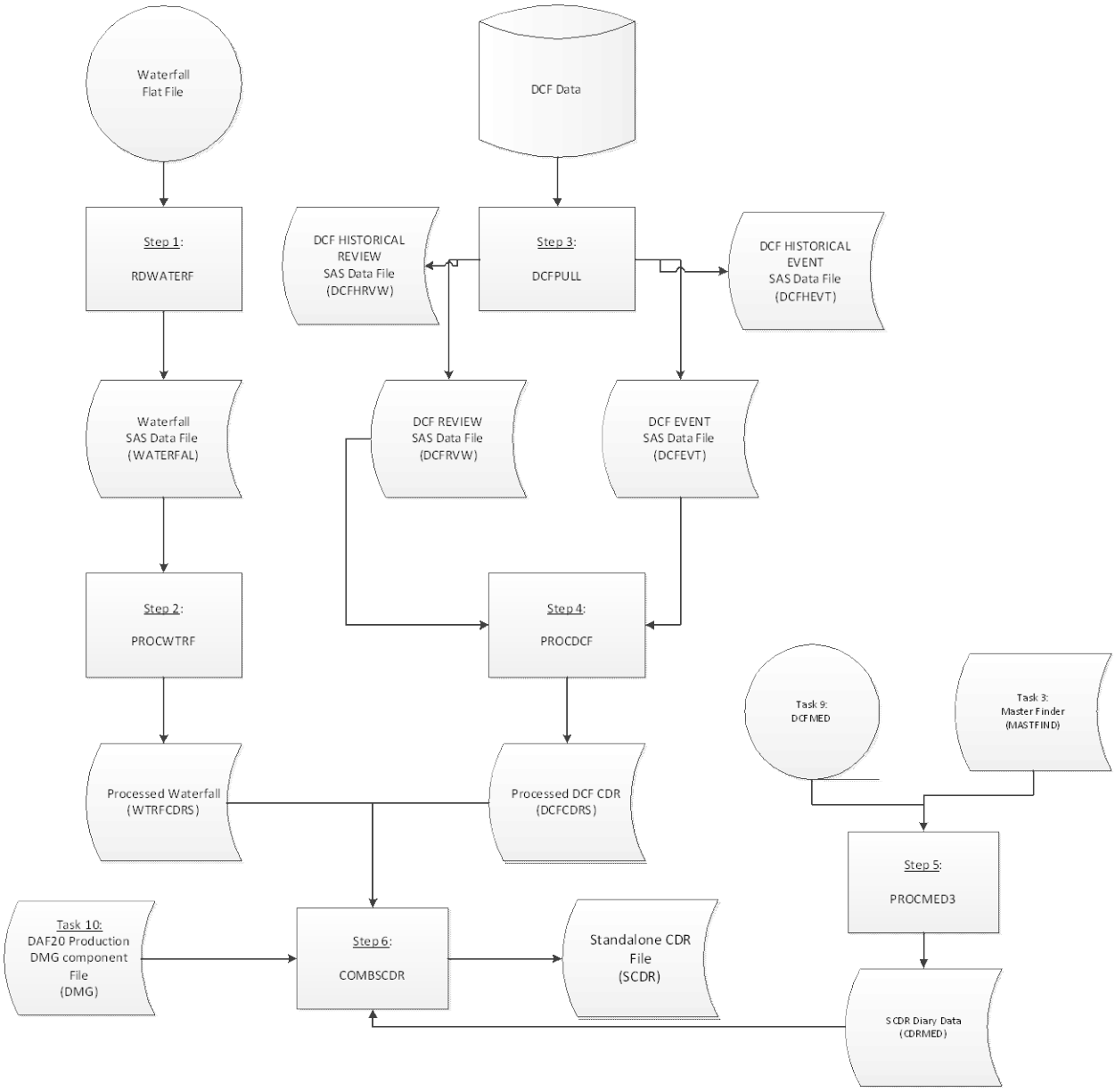
PHONE: (202) 358-6227
EMAIL: Paul.OLeary@ssa.gov

Task 21. Create SCDR



Task No.: 21	**Task Name:** Create Stand-alone CDR Component

Summary: The purpose of this task is to:

1. Create a stand-alone Continuing Disability Review (CDR) file combining data from Waterfall and DCF.

Step 1

PURPOSE:
Reads the Waterfall text file into SAS.

DATE EXECUTED: 11/04/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PRDLIB(RDWATERF) (See Appendix A.254)

INPUT(S):
OPDR.TG.PRD.ETTW.WATERFAL.EXTOUT.FY2021 (N = 13,480,559) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.WATERFAL.SA.V1 (N = 13,480,559) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.RDWATERF

APPROXIMATE PROCESSING TIME: 0 hours 06 minutes 09 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input record counts: check for reasonable trend in changes

	OBS	RATE
DAF19	12,557,260	
DAF20	12,993,617	3.47%
DAF21	13.480,559	2.55%

Step 2

PURPOSE:
Processes the Waterfall file into an beneficiary-level dataset.

DATE EXECUTED: 12/14/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PRDLIB(PROCWTRF) (See Appendix A.255)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.WATERFAL.SA.V1 (N= 13,480,559) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.WTRFCDRS.SA.V1 (N= 10,189,398) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.CDR.PROCWTRF

APPROXIMATE PROCESSING TIME: 0 hours 18 minutes 46 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input record counts: check for reasonable trend in changes

	OBS	RATE
DAF19	9,708,494	
DAF20	9,935,516	2.34%
DAF21	10,189,398	2.55%

Step 3

PURPOSE:
Produces the DCF Review and DCF Event extracts.

DATE EXECUTED: 12/14/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PRDLIB(DCFPULL) (See Appendix A.256)

INPUT(S):
DBP8.DB2.SDSNLOAD (N=N/A) (DB2 Database Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFRVW.SA.V1 (N= 58,070,678) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFEVT.SA.V1 (N= 216,487,838) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFHRVW.SA.V1 (N= 12,143,515) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFHEVT.SA.V1 (N= 85,381,639) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.DCFPULL

APPROXIMATE PROCESSING TIME: 1 hours 15 minutes 26 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
  Year-to-year comparison of output record counts: check for reasonable trend in changes

DCFRVW	OBS	RATE
DAF19	53,857,568	
DAF20	55,592,299	3.2%
DAF21	58,070,678	4.5%

DCFEVT	OBS	RATE
DAF19	198,763,269	
DAF20	206,127,377	3.7%
DAF21	216,487,838	5.0%

Step 4

PURPOSE:
Processes the DCF Review and DCF Events extracts into a beneficiary-level dataset.

DATE EXECUTED: 12/15/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PRDLIB(PROCDCF) (See Appendix A.257)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFRVW.SA.V1 (N= 58,070,678) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFEVT.SA.V1 (N= 216,487,838) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFCDRS.SA.V1 (N= 20,578,179) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PROCDCF

APPROXIMATE PROCESSING TIME: 2 hours 6 minutes 59 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: check for reasonable trend in changes

	OBS	RATE
DAF19	19,646,269	
DAF20	20,060,611	2.11%
DAF21	20,578,179	2.58%

Step 5

PURPOSE:
Process the DCF Medical Table to keep most recent Medical CDR variables for primary SSNs

DATE EXECUTED: 03/08/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.SCDR.PRDLIB(PROCMED3) (See Appendix A.259)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.DCFMED.SA.V1 (N= 47,755,154) (SAS File Format)
where LU_PGM_NM NE 'CDCNVCLM' and CID = '00' and COSSN NE '000000000' and COSSN = CLMSSN
OPDR.TG.PRD.ETTW.#6266.DAF21P.MASTFIND.SA.V1(N= 37,523,560) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF21P.CDRMED.SA.V1 (N= 23,490,861) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.SCDR.PROCMED3

APPROXIMATE PROCESSING TIME: 0 hours 41 minutes 56 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review

Step 6

PURPOSE:
Combines the Waterfall and DCF beneficiary level files into a stand-alone CDR file.

DATE EXECUTED: 03/09/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.PRDLIB(COMBSCDR) (See Appendix A.258)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF21P.DCFCDRS.SA.V1 (N= 20,578,179) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF21P.WTRFCDRS.SA.V1 (N= 10,189,398) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF21P.CDRMED.SA.V1(N=23,490,861) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.SCDR (N= 37,486,887) (SAS File Format)

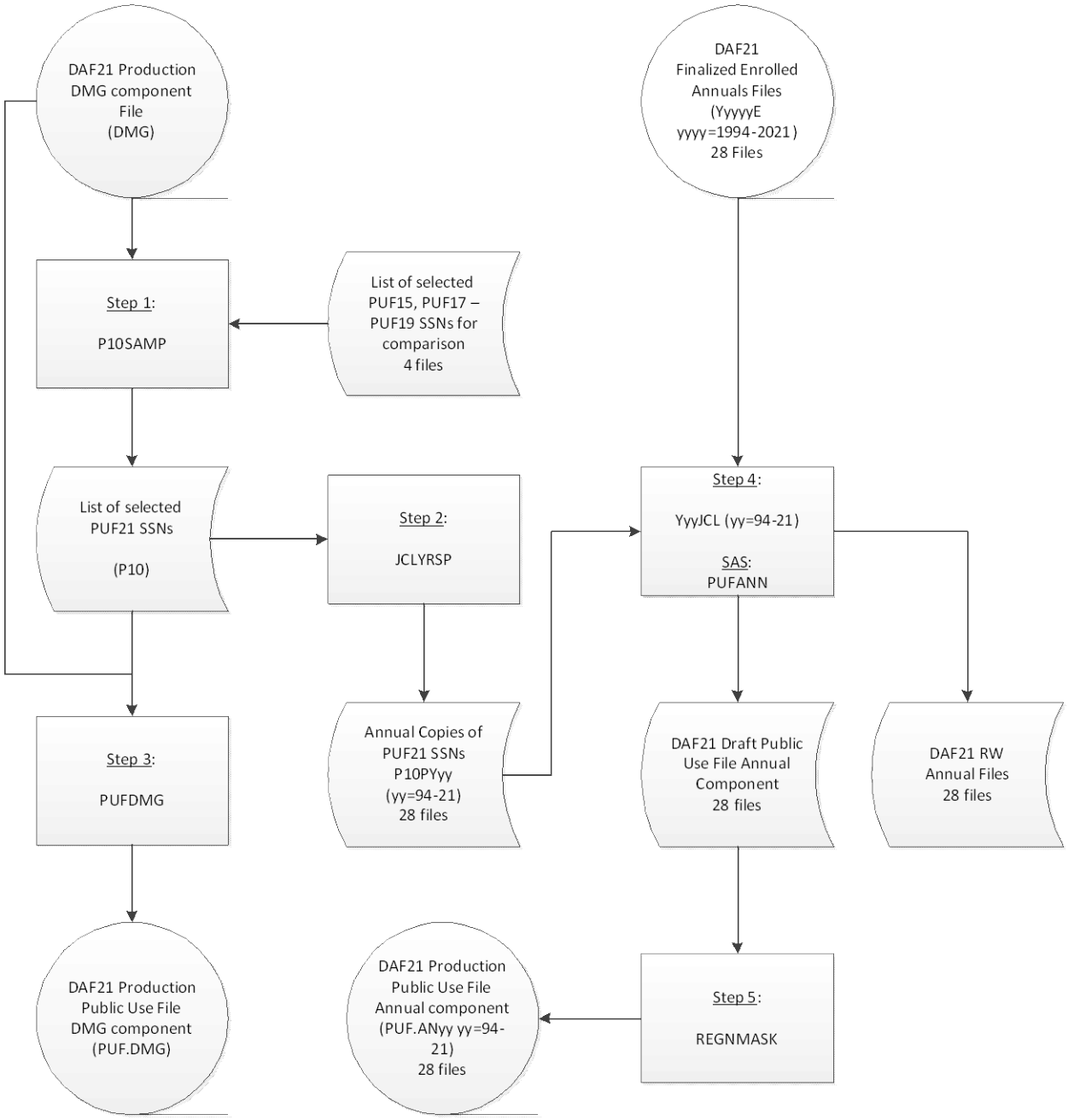
LOG:
OPDR.TG.PRD.ETTW.#5413.DAF21.SCDR.COMBSCDR

APPROXIMATE PROCESSING TIME: 2 hours 59 minutes 50 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review

Data Documentation: N/A
SSA Contact Staff: NAME: Paul O'Leary PHONE: (202) 358-6227 EMAIL: Paul.OLeary@ssa.gov

Task PUF. Create PUF



Task No.: PUF	**Task Name:** Create Public Use File (PUF) Component

Summary: The purpose of this task is to:

1. Create a stand-alone Public Use File (PUF) versions of DAF21 DMG and Annuals components.

Step 1

PURPOSE: Select the SSNs to be included in the current DAF PUF and develop PUFPINs.

DATE EXECUTED: 02/23/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(P10SAMP) (See Appendix A.259)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.DMG (N = 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF17T.PUF.P10P.SA.V1 (N= 3,386,041) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF18T.PUF.P10P.SA.V1 (N=3,482,042) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF19T.PUF.P10P.SA.V1 (N= 3,585,588) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF19T.PUF.P10P.SA.V1 (N= 3,672,720) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21T.PUF.P10P.SA.V1 (N= 3,747,274) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.P10SAMP

APPROXIMATE PROCESSING TIME: 00 hours 57 minutes 47 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of SSN’s included in PUF: confirm that the current year PUF has roughly 10% of SSN’s from the DMG input file and that there is reasonable growth compared to previous years

	# SSN’s included in PUF
DAF15	3,005,367
DAF17	3,386,041
DAF18	3,482,042
DAF19	3,585,588
DAF20	3,672,720
DAF21	3,747,274

- Confirm that in the printout of SSN’s and PUFPIN’s, the PUFPIN’s should look randomized.

- Researcher review of overlap between the current DAF PUF File and the previous DAF PUF Files to confirm that the overlap is low enough.

	# SSN's	%
In previous DAF PUF files only	10970,863	74.54
In current DAF PUF file only	2528,642	17.18
In both current and previous DAF PUF files	1218,632	8.28

	# SSN's	%
SSN in one DAF PUF File	11,872,480	80.67
SSN in two DAF PUF Files	2,551,812	17.34
SSN in three DAF PUF Files	278,154	1.89
SSN in four DAF PUF Files	15,356	0.10
SSN in five or more DAF PUF Files	335	0.00

Step 2

PURPOSE: Split the SSN-PUFPIN crosswalk into annual files.

DATE EXECUTED: 2/24/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(JCLYRSP) (See Appendix A.260)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20T.PUF.P10P.SA.V1 (N=3,747,274) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21T.P10PYyy.SA.V1 where yy = 94-21 (N=3,747,274) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.JCLYRSP

APPROXIMATE PROCESSING TIME: 00 hours 02 minutes 47 seconds

QA:
- Log scan for phrases "Error", "Uninitialized", "Warning", "Obvious", "Repeat", "Not Cataloged", "Not Defined"
- Formal code review
- Confirm that the number of output observations in each file is the same as the input file

Step 3

PURPOSE: Construct the Production PUF DMG Component file.

DATE EXECUTED: 02/24/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(PUFDMG) (See Appendix A.261)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.DMG (N = 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21T.PUF.P10P.SA.V1 (N=3,747,274) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.PUF.DMG (N=3,747,274) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PUFDMG

APPROXIMATE PROCESSING TIME: 01 hours 35 minutes 18 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of output observations is the same as the PUF sample input file
- Researcher review of frequencies before and after masking
- Confirm within the proc contents that there is no SSN variable and that all variables have labels

Step 4

PURPOSE: Construct the draft PUF Annual Component files.

DATE EXECUTED:

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(YyyJCL) where yy = 94-21 (See Appendix A.262 - A.289)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(PUFANN) (See Appendix A.290)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.YyyyyE where yyyy = 1994-2021 (N = see below) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21T.PUF.P10P.SA.V1 where yy = 94-21 (N= 3,747,274) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.PUF.RWyy.SA.V1 where yy = 94-21 (N= see below) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF21P.PUF.ANyy.SA.V1 where yy = 94-21 (N=see below) (SAS File Format)

Annuals Year	# Obs in Annuals Input	# Obs in Output Files
1994	9,587,343	956,895
1995	10,786,166	1,077,025
1996	11,923,792	1,191,980
1997	2,564,508	1,255,679
1998	12,993,624	1,297,936
1999	13,408,788	1,339,729
2000	13,843,160	1,383,110
2001	14,340,925	1,433,263
2002	14,976,689	1,496,570
2003	15,556,143	1,554,551
2004	16,081,213	1,607,333
2005	16,597,116	1,658,591
2006	17,075,591	1,707,177
2007	17,540,259	1,754,500
2008	18,067,499	1,807,230
2009	18,703,451	1,870,842
2010	19,209,580	1,921,250
2011	19,653,831	1,964,949
2012	19,988,163	1,998,497
2013	20,134,506	2,013,074
2014	20,140,142	2,014,005
2015	20,088,621	2,008,772
2016	19,955,516	1,995,468
2017	19,738,384	1,972,528
2018	19,438,339	1,943,137
2019	19.068,601	1,905,860
2020	18,504,870	1,849,621
2021	17,572,446	1,756,115

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF. YyyJCL

APPROXIMATE PROCESSING TIME: 08 hours 00 minutes 28 seconds (average per program)

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of output observations in each file is roughly 10% of the annuals input files
- Researcher review of frequencies before and after masking

Step 5

PURPOSE: Mask people who moved multiple times and finalize PUF Annual Component Files.

DATE EXECUTED: 03/01/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.PRDLIB(REGNMASK) (See Appendix A.291)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF21P.PUF.ANyy.SA.V1 where yy = 94-21 (N = see below) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.PUF.ANyy where yy = 94-21 (N = see below) (SAS File Format)

Year	# Obs in Input	# Obs in Output
1994	956,895	956,895
1995	1,077,025	1,077,025
1996	1,191,980	1,191,980
1997	1,255,679	1,255,679
1998	1,297,936	1,297,936
1999	1,339,729	1,339,729
2000	1,383,110	1,383,110
2001	1,433,263	1,433,263
2002	1,494,123	1,494,123
2003	1,554,551	1,554,551
2004	1,607,333	1,607,333
2005	1,658,591	1,658,591
2006	1,707,177	1,707,177
2007	1,754,500	1,754,500
2008	1,807,230	1,807,230
2009	1,870,842	1,870,842
2010	1,921,250	1,921,250
2011	1,964,949	1,964,949
2012	1,998,497	1,998,497
2013	2,013,074	2,013,074
2014	2,014,005	2,014,005
2015	2,008,772	2,008,772
2016	1,995,468	1,995,468
2017	1,972,528	1,972,528
2018	1,943,137	1,943,137
2019	1,905,860	1,905,860
2020	1,849,621	1,849,621
2021	1,756,115	1,756,115

LOG:
OPDR.TG.PRD.ETTW.#8047.DAF21.PUF.REGNMASK

APPROXIMATE PROCESSING TIME: 1 hours 8 minutes 22 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm that the number of observations in input and output files are the same
- Researcher review of region masking frequencies
- Confirm within the proc contents that there is no SSN variable and that all variables have labels

Data Documentation: N/A

SSA Contact Staff:

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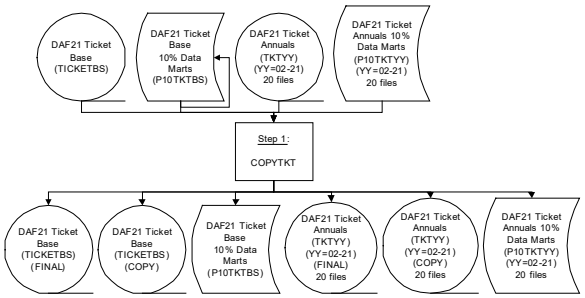
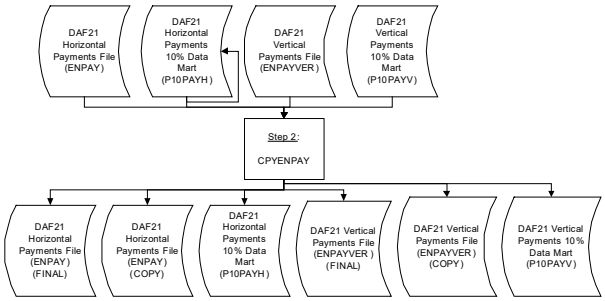
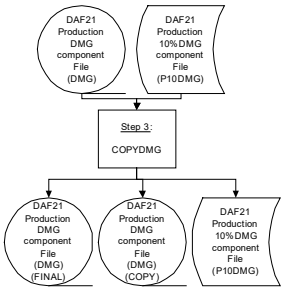
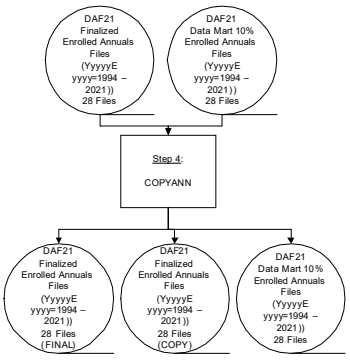
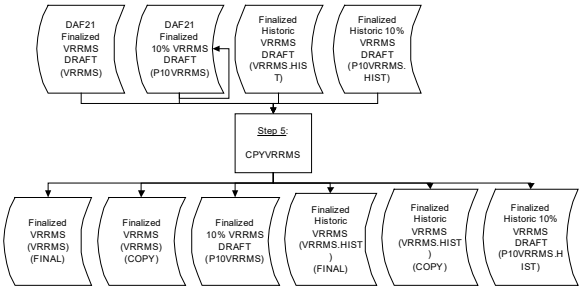
Task DAF. Deliver DAF

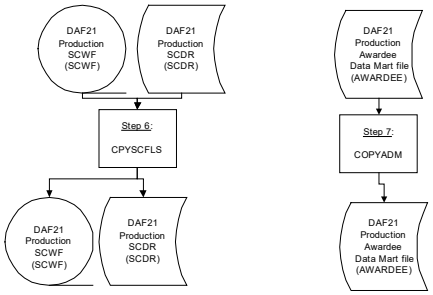












Task No.: DAF	**Task Name:** Deliver DAF

Summary: The purpose of this task is to:

1. Produce the FINAL version of the core DAF deliverable and the corresponding copies
2. Produce the FINAL version of DAF Awardee Data Mart deliverable

Step 1

PURPOSE: Copy the finalized Ticket base and annual files.

DATE EXECUTED: 12/21/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(COPYTKT) (See Appendix A.324)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKETBS (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10TKTBS (N= 2,853,904) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.TICKETyy, yy=02-21 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW..DAF21D.P10TKTyy, yy=02-21 (N= 2,853,904) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21C.TICKETBS (N= 28,570,366)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKETBS (N= 28,570,366)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.P10TKTBS (N= 2,853,904)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKETyy, yy=02-21 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.TICKETyy, yy=02-21 (N= 28,570,366) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.P10TKTyy, yy=02-21 (N= 2,853,904) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.COPYTKT

APPROXIMATE PROCESSING TIME: 11 hours 06 minutes 10 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Step 2

PURPOSE: Copy the finalized Enpay horizontal and vertical files.

DATE EXECUTED: 12/21/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF20.DLVR.PRDLIB(CPYENPAY) (See Appendix A.325)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.ENPAY (N=116,519) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10PAYH (N=11,611) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.ENPAYVER (N=1,317,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10PAYV (N=131,433) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.ENPAY (N=116,519) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.ENPAY (N=116,519) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.P10PAYH (N=11,611) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.ENPAYVER (N=1,317,980) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.ENPAYVER (N=1,317,980) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.P10PAYV (N=131,433) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.CPYENPAY

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 24 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Step 3

PURPOSE: Copy the finalized DMG files.

DATE EXECUTED: 12/21/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(COPYDMG) (See Appendix A.326)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.DMG.SA(N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10DMG (N= 3,744,968) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.DMG (N=37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.DMG (N=37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.P10DMG (N= 3,744,968) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.COPYDMG

APPROXIMATE PROCESSING TIME: 01 hours 59 minutes 17 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Step 4

PURPOSE: Copy the finalized Annuals files.

DATE EXECUTED: 1/03/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(COPYANN) (See Appendix A.327)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.YyyyyE (yyyy=1994-2021) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.YyyyyE (yyyy=1994-2021) (N = see Enrolled 10% below) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.YyyyyE (yyyy=1994-2021) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.YyyyyE (yyyy=1994-2021) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21D.YyyyyE (yyyy=1994-2021) (N = see Enrolled 10% below) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.COPYANN

APPROXIMATE PROCESSING TIME: 23 hours 23 minutes 26 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Year	Enrolled	Enrolled 10%
1994	9,587,343	957,717
1995	10,786,166	1,077,107
1996	11,923,792	1,190,340
1997	12,564,508	1,253,566
1998	12,993,624	1,297,064
1999	13,408,788	1,338,477
2000	13,843,160	1,381,742
2001	14,340,925	1,431,773
2002	14,976,689	1,495,786
2003	15,556,143	1,554,083
2004	16,081,213	1,606,226
2005	16,597,116	1,657,728
2006	17,075,591	1,705,309
2007	17,540,259	1,752,239
2008	18,067,499	1,804,919
2009	18,703,451	1,868,682
2010	19,209,580	1,918,234
2011	19,653,831	1,963,703
2012	19,988,163	1,997,460
2013	20,134,506	2,011,962
2014	20,140,142	2,013,108
2015	20,088,621	2,007,720
2016	19,955,516	1,994,387
2017	19,738,384	1,972,187
2018	19,438,339	1,941,906
2019	19,068,601	1,904,928
2020	18,504,870	1,848,906
2021	17,572,446	1,756,352

Step 5

PURPOSE: Copy the finalized VRRMS files.

DATE EXECUTED: 01/04/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(CPYVRRMS) (See Appendix A.328)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS (N = 68,780) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS.HIST (248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS (N = 6,891) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS.HIST (N=24,894) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS (N = 68,780) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS.HIST (248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.VRRMS (N = 68,780) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21C.VRRMS.HIST (248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS (N = 6,891) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21D.P10VRRMS.HIST (N=24,894) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.CPYVRRMS

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 13 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Step 6

PURPOSE: Copy the finalized SCDR and SCWF files.

DATE EXECUTED: 01/04/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(CPYSCFLS) (See Appendix A.329)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.SCWF (N = 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.SCDR (N = 37,486,887) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21P.SCWF (N = 37,522,156) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.SCDR (N = 37,486,887) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF20.DLVR.CPYSCFLS

APPROXIMATE PROCESSING TIME: 01 hours 15 minutes 20 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Step 7

PURPOSE: Copy the finalized ADM files.

DATE EXECUTED: 03/02/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.PRDLIB(COPYADM) (See Appendix A.330)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.AWARDEE (N= 28,238,329) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF21D.AWARDEE (N= 28,238,329) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF21.DLVR.COPYADM

APPROXIMATE PROCESSING TIME: 00 hours 43 minutes 17 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm # of observations in copied files are same as their input files

Data Documentation: N/A

SSA Contact Staff:
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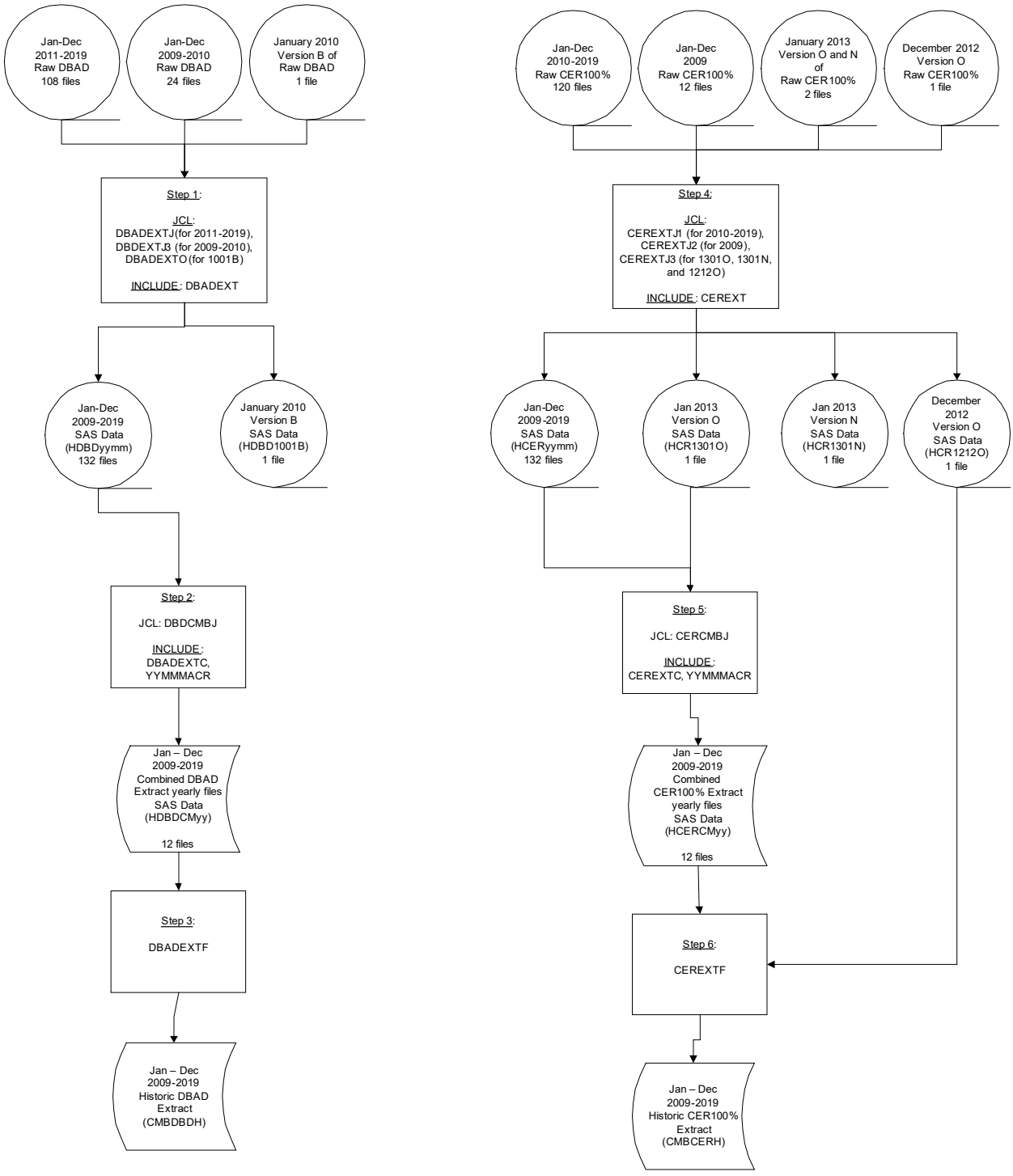
Task XX. Historical DBAD and CER Extract



Task No.: XX	**Task Name:** Historical DBAD and CER100% Extraction

Summary: The purpose of this task is to:
1. Extract the DBAD data for 2009-2019 without finder restrictions applied
2. Extract the CER100% data for 2009-2019 without finder restrictions applied

Step 1

PURPOSE:
Assemble DBAD files by SAS loading 12 months of DBAD monthly extracts for years 2009-2019, without applying finder selection criteria. De-duplicate on SSN/BIC to keep all possible CANs for finders and all possible SSN/BIC combos for linking returned records.

DATE EXECUTED: 05/27/2021 for 2011-2019, 06/01/2021 for 2009-2010, 06/02/2021 for 1001B

MAIN PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBADEXTJ) (for 2011 – 2019) (See Appendix A.292)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBDEXTJ3) (for 2009 – 2010) (See Appendix A.293)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBADEXTO) (for 1001B) (See Appendix A.294)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBADEXT) (See Appendix A.295)

INPUT(S):
MTOSSI.T2.DBADMBR.Dyyxx where yymm = 0901 – 1912 (N = see table below) (Flat File Format)
MTOSSI.T2.DBADMBR.D1001B (N=42,051,667) (Flat File Format) – This was an additional DBAD file available for January 2010.

Input Observations for 2009-2019 DBAD Monthly Segments (yymm = 0901-1912)		
0901: 39,953,757	1001: 42,051,667	1101: 44,596,787
0902: 40,108,460	1002: 42,222,667	1102: 44,769,302
0903: 40,287,507	1003: 42,420,289	1103: 44,966,381
0904: 40,446,123	1004: 42,604,040	1104: 45,165,627
0905: 40,620,866	1005: 42,792,136	1105: 45,361,475
0906: 40,789,804	1006: 43,276,067	1106: 45,540,738
0907: 40,962,991	1007: 43,462,472	1107: 45,737,146
0908: 41,155,949	1008: 43,672,730	1108: 45,938,119
0909: 41,334,319	1009: 43,850,126	1109: 46,116,516
0910: 41,522,526	1010: 44,057,510	1110: 46,313,897
0911: 41,706,291	1011: 44,246,936	1111: 46,479,976
0912: 41,870,886	1012: 44,408,476	1112: 46,638,142
1201: 46,809,257	1301: 48,861,237	1401: 50,711,416
1202: 46,972,512	1302: 49,008,389	1402: 50,837,655
1203: 47,165,400	1303: 49,183,799	1403: 50,987,806
1204: 47,343,642	1304: 49,357,632	1404: 51,147,878
1205: 47,502,090	1305: 49,509,400	1405: 51,288,384
1206: 47,682,315	1306: 49,672,962	1406: 51,433,862
1207: 47,861,126	1307: 49,823,926	1407: 51,564,183
1208: 48,025,535	1308: 49,979,911	1408: 51,703,992
1209: 48,208,801	1309: 50,147,595	1409: 51,867,175

1210: 48,383,394 1211: 48,528,810 1212: 48,717,031	1310: 50,289,994 1311: 50,460,774 1312: 50,580,954	1410: 52,004,394 1411: 52,132,249 1412: 52,248,274
1501: 52,379,260 1502: 52,491,068 1503: 52,629,607 1504: 52,781,580 1505: 52,923,232 1506: 53,057,554 1507: 53,193,274 1508: 53,345,683 1509: 53,477,101 1510: 53,619,533 1511: 53,731,611 1512: 53,838,940	1601: 53,975,791 1602: 54,100,582 1603: 54,207,708 1604: 54,355,744 1605: 54,483,030 1606: 54,594,070 1607: 54,717,389 1608: 54,848,915 1609: 54,961,012 1610: 55,091,806 1611: 55,176,803 1612: 55,278,441	1701: 55,419,571 1702: 55,517,956 1703: 55,642,543 1704: 55,764,342 1705: 55,878,551 1706: 55,991,590 1707: 56,111,894 1708: 56,228,051 1709: 56,340,114 1710: 56,466,743 1711: 56,535,811 1712: 56,624,923
1801: 56,747,775 1802: 56,821,443 1803: 56,954,225 1804: 57,067,555 1805: 57,165,164 1806: 57,274,968 1807: 57,387,162 1808: 57,482,839 1809: 57,592,541 1810: 57,697,578 1811: 57,754,811 1812: 57,833,221	1901: 57,949,349 1902: 58,035,466 1903: 58,155,080 1904: 58,256,736 1905: 58,349,353 1906: 58,452,456 1907: 58,545,946 1908: 58,641,962 1909: 58,641,962 1910: 58,843,183 1911: 58,935,728 1912: 58,971,092	

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HDBDyymm.SA.V1 where yymm = 0901 – 1912 (N= see table below) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.HDB1001B.SA.V1 (N= 41,317,454) (SAS File Format)

Output Observations for 2009-2019 DBAD Monthly Segments (yymm = 0901-1912)		
0901: 39,242,246 0902: 39,395,352 0903: 39,572,083 0904: 39,728,711 0905: 39,901,503 0906: 40,068,778 0907: 40,239,901 0908: 40,430,822 0909: 40,607,335 0910: 40,793,574 0911: 40,975,673 0912: 41,138,654	1001: 41,317,454 1002: 41,486,747 1003: 41,681,898 1004: 41,863,491 1005: 42,049,620 1006: 42,230,636 1007: 42,414,674 1008: 42,620,100 1009: 42,800,456 1010: 43,005,972 1011: 43,194,511 1012: 43,358,953	1101: 43,540,549 1102: 43,711,097 1103: 43,898,821 1104: 44,089,911 1105: 44,281,007 1106: 44,457,438 1107: 44,648,667 1108: 44,843,020 1109: 45,024,818 1110: 45,218,014 1111: 45,384,377 1112: 45,544,334
1201: 45,713,633 1202: 45,875,740 1203: 46,056,204 1204: 46,229,456 1205: 46,388,356 1206: 46,564,872 1207: 46,739,520	1301: 47,734,819 1302: 47,881,994 1303: 48,049,012 1304: 48,213,913 1305: 48,362,632 1306: 48,521,910 1307: 48,672,350	1401: 49,560,324 1402: 49,686,792 1403: 49,828,823 1404: 49,980,761 1405: 50,118,315 1406: 50,260,503 1407: 50,392,076

1208: 46,905,280 1209: 47,086,397 1210: 47,261,040 1211: 47,409,362 1212: 47,591,283	1308: 48,826,921 1309: 48,995,385 1310: 49,142,815 1311: 49,304,579 1312: 49,433,180	1408: 50,530,175 1409: 50,690,498 1410: 50,825,416 1411: 50,954,214 1412: 51,076,434
1501: 51,201,911 1502: 51,316,625 1503: 51,445,220 1504: 51,585,061 1505: 51,721,741 1506: 51,852,438 1507: 51,984,589 1508: 52,130,025 1509: 52,264,297 1510: 52,403,597 1511: 52,523,351 1512: 52,638,248	1601: 52,762,645 1602: 52,883,975 1603: 52,991,444 1604: 53,127,855 1605: 53,248,609 1606: 53,362,289 1607: 53,483,139 1608: 53,608,345 1609: 53,726,116 1610: 53,852,342 1611: 53,947,259 1612: 54,054,326	1701: 54,181,729 1702: 54,283,424 1703: 54,396,762 1704: 54,510,600 1705: 54,620,301 1706: 54,733,042 1707: 54,848,801 1708: 54,964,162 1709: 55,079,027 1710: 55,197,342 1711: 55,281,161 1712: 55,379,214
1801: 55,490,270 1802: 55,576,273 1803: 55,688,686 1804: 55,793,694 1805: 55,891,265 1806: 56,000,800 1807: 56,107,644 1808: 56,205,442 1809: 56,314,177 1810: 56,417,912 1811: 56,494,087 1812: 56,581,344	1901: 56,684,904 1902: 56,771,110 1903: 56,873,414 1904: 56,969,589 1905: 57,059,194 1906: 57,157,795 1907: 57,251,445 1908: 57,346,518 1909: 57,452,331 1910: 57,546,846 1911: 57,641,721 1912: 57,702,061	

LOG(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.DBDEXT1 (for 2011 – 2019)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.DBDEXT2 (for 2009 – 2010)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.DBDEXT3 (for 1001B)

APPROXIMATE PROCESSING TIME:
47 hours 49 minutes 59 seconds for 2011-2019
07 hours 51 minutes 04 seconds for 2009-2010
00 hours 18 minutes 20 seconds for 1001B

QA:

- Confirm layouts of DBAD files from 2009-2019 and update programs accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input and output record counts: confirm reasonable growth in observations year-to-year
- We confirmed that the two files from January 2010 (HDBD1001 and HDBD1001B) are the same and that HDBD1001 can be used in downstream processing.

Step 2

PURPOSE:

Combine the monthly SAS-loaded DBAD files for each year into one file for years 2009-2019.

DATE EXECUTED: 06/04/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBDCMBJ) (See Appendix A.296)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBADEXTC) (See Appendix A.297)
OPDR.TG.PRD.ETTW.#6266.DAF20.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HDBDyymm.SA.V1 where yymm = 0901 – 1912 (N = See output table from Step 1) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HDBDCMyy.SA.V1 where yy = 09 to 19 (N = see below) (SAS File Format)

Output Obs for 2009-2019
2009: 41,449,563
2010: 43,652,360
2011: 45,852,427
2012: 47,907,161
2013: 49,748,284
2014: 51,409,652
2015: 52,975,542
2016: 54,402,798
2017: 55,728,261
2018: 56,938,340
2019: 58,064,500

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.DBDCMBJ

APPROXIMATE PROCESSING TIME: 01 hour 29 minutes 19 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: confirm reasonable changes in observations year-to-year

Step 3

PURPOSE:
Merge the yearly 2009-2019 DBAD into one.

DATE EXECUTED: 06/08/2021

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(DBADEXTF) (See Appendix A.298)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HDBDCMyy.SA.V1 where yy = 09 to 19 (N = see below) (SAS File Format)

Input Obs for 2009-2019
2009: 41,449,563
2010: 43,652,360
2011: 45,852,427
2012: 47,907,161
2013: 49,748,284
2014: 51,409,652
2015: 52,975,542
2016: 54,402,798
2017: 55,728,261
2018: 56,938,340
2019: 58,064,500

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.CMBDBDH.SA.V1 (N=61,443,969) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.DBDEXTF

APPROXIMATE PROCESSING TIME: 00 hours 30 minutes 49 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 4

PURPOSE:
Assemble CER100% files by SAS loading 12 months of CER monthly extracts for years 2009-2019, without applying finder selection criteria.

DATE EXECUTED: 05/28/2021 for 2010-2019, 06/01/2021 for 2009, 06/01/2021 for 1212O, 1301O, and 1301N

MAIN PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXTJ1) (for 2010 – 2019) (See Appendix A.299)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXTJ2) (for 2009) (See Appendix A.300)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXTJ3) (for 1212O, 1301O, 1301N) (See Appendix A.301)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXT) (See Appendix A.302)

INPUT(S):
MTOSSI.CER100.FIELD.Dyyxx where yymm = 0902 – 1912 (N = see below) (SAS File Format)
MTOSSI.CER100.FIELD.D1212O (N= 31,159,067) (SAS File Format)

MTOSSI.CER100.FIELD.D1301O (N= 21,037,518) (SAS File Format)
MTOSSI.CER100.FIELD.D1301N (N= 21,037,518) (SAS File Format)

Input Observations for 2009-2019 CER100% Monthly Segments (yymm = 0901-1912)		
0901: Not available 0902: 33,091,485 0903: 33,286,739 0904: 33,453,787 0905: 33,657,779 0906: 33,942,428 0907: 34,107,195 0908: 34,278,253 0909: 34,551,041 0910: 34,723,406 0911: 34,942,759 0912: 35,088,999	1001: 35,194,944 1002: 27,087,345 1003: 27,243,600 1004: 27,345,439 1005: 27,488,343 1006: 27,700,686 1007: 27,812,559 1008: 27,996,725 1009: 28,119,319 1010: 28,210,532 1011: 28,378,049 1012: 28,478,832	1101: 28,517,771 1102: 28,694,308 1103: 28,825,586 1104: 28,917,706 1105: 29,118,986 1106: 29,245,350 1107: 29,323,074 1108: 29,518,436 1109: 29,615,375 1110: 29,684,652 1111: 29,786,079 1112: 29,794,583
1201: 30,058,991 1202: 30,130,804 1203: 30,222,706 1204: 30,408,240 1205: 30,529,482 1206: 30,620,957 1207: 30,778,841 1208: 30,895,381 1209: 30,966,328 1210: 31,131,085 1211: 31,142,419 1212: 31,159,067	1301: 21,037,518 1302: 20,966,489 1303: 20,868,837 1304: 20,885,597 1305: 20,857,763 1306: 20,804,660 1307: 20,819,081 1308: 20,795,093 1309: 20,782,678 1310: 20,759,461 1311: 20,691,198 1312: 20,663,138	1401: 20,604,254 1402: 20,587,097 1403: 20,543,233 1404: 20,590,791 1405: 20,576,584 1406: 20,597,600 1407: 20,586,529 1408: 20,563,134 1409: 20,607,868 1410: 20,607,720 1411: 20,568,317 1412: 20,445,070
1501: 20,416,626 1502: 20,419,392 1503: 20,415,005 1504: 20,391,412 1505: 20,385,130 1506: 20,373,011 1507: 20,369,834 1508: 20,355,411 1509: 20,408,678 1510: 20,419,933 1511: 20,414,497 1512: 20,406,308	1601: 20,367,498 1602: 20,420,149 1603: 20,442,041 1604: 20,433,812 1605: 20,490,323 1606: 20,501,933 1607: 20,492,008 1608: 20,535,089 1609: 20,539,868 1610: 20,584,728 1611: 20,483,673 1612: 20,422,888	1701: 20,538,626 1702: 20,509,524 1703: 20,510,642 1704: 20,514,023 1705: 20,543,246 1706: 20,534,245 1707: 20,497,155 1708: 20,528,291 1709: 20,512,075 1710: 20,526,011 1711: 20,465,333 1712: 20,400,685
1801: 20,463,482 1802: 20,448,499 1803: 20,375,997 1804: 20,404,421 1805: 20,397,389 1806: 20,388,591 1807: 20,423,995 1808: 20,423,185 1809: 20,400,010 1810: 20,421,019 1811: 20,361,364 1812: 20,292,821	1901: 20,384,318 1902: 20,384,981 1903: 20,358,564 1904: 20,408,140 1905: 20,409,293 1906: 20,396,693 1907: 20,446,618 1908: 20,454,422 1909: 20,476,403 1910: 20,483,907 1911: 20,460,187 1912: 20,465,006	

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCERyymm.SA.V1 where yymm = 0902 – 1912 (N = see below) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCR1212O.SA.V1 (N= 24,223,385) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCR1301O.SA.V1 (N=18,118,932) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCR1301N.SA.V1 (N=18,118,932) (SAS File Format)

Output Observations for 2009-2019 CER100% Monthly Segments (yymm = 0901-1912)		
0901: Not available 0902: 24,340,978 0903: 24,463,009 0904: 24,558,994 0905: 24,687,951 0906: 24,873,831 0907: 24,976,416 0908: 25,071,729 0909: 25,244,067 0910: 25,351,125 0911: 25,477,277 0912: 25,565,268	1001: 25,614,091 1002: 21,522,998 1003: 21,624,918 1004: 21,689,434 1005: 21,791,338 1006: 21,949,140 1007: 22,030,699 1008: 22,155,034 1009: 22,244,611 1010: 22,301,322 1011: 22,420,409 1012: 22,491,786	1101: 22,502,769 1102: 22,621,483 1103: 22,712,080 1104: 22,766,754 1105: 22,910,010 1106: 23,003,793 1107: 23,047,507 1108: 23,184,673 1109: 23,253,413 1110: 23,289,576 1111: 23,357,939 1112: 23,329,076
1201: 23,538,525 1202: 23,574,599 1203: 23,627,289 1204: 23,756,884 1205: 23,843,424 1206: 23,901,809 1207: 24,009,083 1208: 24,090,013 1209: 24,129,691 1210: 24,244,039 1211: 24,249,008 1212: 24,223,385	1301: 18,118,932 1302: 18,085,036 1303: 18,020,820 1304: 18,061,707 1305: 18,063,519 1306: 18,038,091 1307: 18,067,230 1308: 18,062,578 1309: 18,065,361 1310: 18,065,716 1311: 18,022,526 1312: 18,017,648	1401: 17,983,829 1402: 17,975,029 1403: 17,944,415 1404: 17,990,186 1405: 17,989,488 1406: 18,012,849 1407: 18,011,419 1408: 17,992,583 1409: 18,036,324 1410: 18,045,052 1411: 18,020,607 1412: 17,967,593
1501: 17,956,829 1502: 17,970,780 1503: 17,993,420 1504: 17,999,063 1505: 18,030,275 1506: 18,096,983 1507: 18,113,867 1508: 18,108,556 1509: 18,157,868 1510: 18,174,715 1511: 18,175,271 1512: 18,174,248	1601: 18,140,363 1602: 18,182,907 1603: 18,204,102 1604: 18,199,381 1605: 18,249,553 1606: 18,266,112 1607: 18,256,964 1608: 18,292,171 1609: 18,296,243 1610: 18,325,173 1611: 18,245,126 1612: 18,180,348	1701: 18,284,926 1702: 18,255,286 1703: 18,249,885 1704: 18,252,531 1705: 18,273,305 1706: 18,268,735 1707: 18,236,085 1708: 18,257,129 1709: 18,246,246 1710: 18,255,326 1711: 18,211,016 1712: 18,140,412
1801: 18,202,610 1802: 18,186,181 1803: 18,118,214 1804: 18,137,066 1805: 18,133,088 1806: 18,124,389 1807: 18,152,497 1808: 18,151,846 1809: 18,126,978	1901: 18,104,252 1902: 18,100,579 1903: 18,072,120 1904: 18,105,628 1905: 18,106,870 1906: 18,094,683 1907: 18,131,100 1908: 18,139,524 1909: 18,158,236	

1810: 18,146,353 1811: 18,097,870 1812: 18,022,688	1910: 18,165,212 1911: 18,143,503 1912: 18,148,619	

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.CEREXT1 (for 2010 – 2019)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.CEREXT2 (for 2009)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.CEREXT3 (for 1212O, 1301O, 1301N)

APPROXIMATE PROCESSING TIME:
14 hours 51 minutes 46 seconds for 2010-2019
01 hours 45 minutes 40 seconds for 2009
00 hours 21 minutes 03 seconds for 1212O, 1301O, and 1301N

QA:

- Confirm layouts of CER100% files from 2009-2019 and update programs accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of input and output record counts: confirm reasonable growth in observations year-to-year
- We confirmed that the three files from January 2013 (HCER1301, HCR1301N, HCR1301O) are the same and that HCER1301 can be used in downstream processing.
- We compared the files from December 2012 (HCER1212 and HCR1212O) and found that HCR1212O had updated values for two benes. We merged this file into the process at the last step.

Step 5

PURPOSE:
Combine the monthly SAS-loaded CER100% files for each year into one file for years 2009-2019.

DATE EXECUTED: 06/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CERCMBJ) (See Appendix A.303)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF20.UTILITY.PRDLIB (YYMMMACR) (See Appendix A.2)
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXTC) (See Appendix A.304)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCERyymm.SA.V1 where yymm = 0902 – 1912 (N = See output table from Step 4) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCERCMyy.SA.V1 where yy=09 – 19 (N = see below) (SAS File Format)

Output Obs for 2009-2019
2009: 26,644,705 2010: 27,852,188 2011: 24,773,083

2012: 25,701,152 2013: 20,211,393 2014: 19,921,411 2015: 19,871,762 2016: 19,913,606 2017: 19,821,634 2018: 19,575,633 2019: 19,522,894

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.CERCMBJ

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: confirm reasonable changes in observations year-to-year

Step 6

PURPOSE:
Merge the yearly 2009-2019 CER100% files into one.

DATE EXECUTED: 06/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.PRDLIB(CEREXTF) (See Appendix A.305)

INCLUDED SAS PROGRAM(S):

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCR1212O.SA.V1 (N=24,223,385) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.HCERCMyy.SA.V1 where yy=09 – 19 (N = see below) (SAS File Format)

Input Obs for 2009-2019
2009: 26,644,705 2010: 27,852,188 2011: 24,773,083 2012: 25,701,152 2013: 20,211,393 2014: 19,921,411 2015: 19,871,762 2016: 19,913,606 2017: 19,821,634 2018: 19,575,633 2019: 19,522,894

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.CMBCERH.SA.V1 (N=42,039,634) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF20.HISTDBD.CEREXTF

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 6

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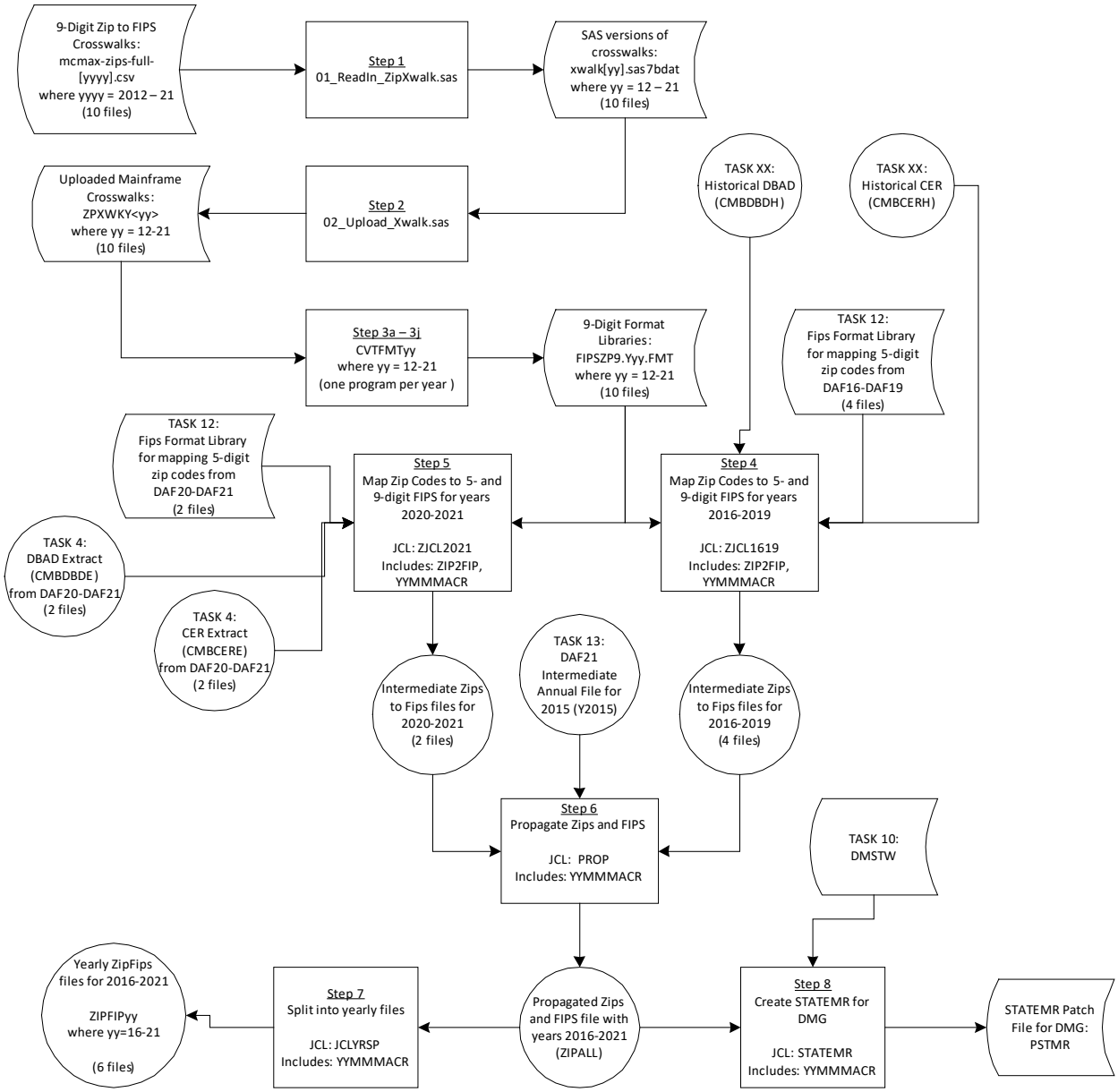
Task XX. Zips to Fips Patch



Task No.: XX	**Task Name:** Create Patch file for 9-digit ZIP to FIPS conversion

Summary: The purpose of this task is to:

1. Create 9-digit zip code SAS formats and upload them to the mainframe.
2. Create a file containing the new ZIP to FIPS conversion and historical monthly CER values from the Historical CER pull.

Step 1

PURPOSE: Read-in the 9-digit zip code crosswalks and convert them to SAS files.

DATE EXECUTED: 3/16/2022

MAIN PROGRAM:
M:\DAF20\ZIPS TO FIPS\code\01_Readin_ZipXwalk.sas (See Appendix A.306)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF20\ZIPS TO FIPS\data\input\mcmax-zips-full-[yyyy].csv (where yyyy = 2012-2021) (CSV File Format)

OUTPUT(S):
M:\DAF20\ZIPS TO FIPS\data\output\xwalk[yy].sas7bdat (where yy = 12 – 21) (SAS File Format)

LOG:
M:\DAF20\ZIPS TO FIPS\code\01_Readin_ZipXwalk.log

APPROXIMATE PROCESSING TIME: 00 hours 07 minutes 14 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm in the SAS .lst file frequencies that Zip Code is always present
- Confirm that print of 10 observations looks similar to original crosswalk file

Step 2

PURPOSE: Upload the 9-digit Zip Code Crosswalk SAS files to the mainframe.

DATE EXECUTED: 3/17/2022

MAIN PROGRAM:
M:\DAF20\ZIPS TO FIPS\code\02_Upload_Xwalk.sas (See Appendix A.307)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF20\ZIPS TO FIPS\data\output\xwalk[yy].sas7bdat (where yy = 12 – 21) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY12.SA.V1 (N= 286,228) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY13.SA.V1 (N= 291,523) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY14.SA.V1 (N= 295,362) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY15.SA.V1 (N= 298,136) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY16.SA.V1 (N= 303,976) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY17.SA.V1 (N= 310,128) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY18.SA.V1 (N= 312,979) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY19.SA.V1 (N= 319,548) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY20.SA.V1 (N= 325,249) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY21.SA.V1 (N= 330,975) (SAS File Format)

LOG:
M:\DAF20\ZIPS TO FIPS\code\02_Upload_Xwalk.log

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 23 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm trends in # of crosswalk records year-to-year

CrosswalkYear	# Records	% change
2012	286,228	
2013	291,523	1.85%
2014	295,362	1.32%
2015	298,136	0.94%
2016	303,976	1.96%
2017	310,128	2.02%
2018	312,979	0.92%
2019	319,548	2.10%
2020	325,249	1.78%
2021	330,975	1.76%

Step 3a

PURPOSE:
Convert the 2012 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT12) (See Appendix A.308)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY12.SA.V1 (N= 286,228) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y12.FMT (N= 286,229) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT12

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 07 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3b

PURPOSE:
Convert the 2013 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT13) (See Appendix A.309)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY13.SA.V1 (N= 291,523) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y13.FMT (N= 291,524) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT13

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 06 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3c

PURPOSE:
Convert the 2014 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT14) (See Appendix A.310)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY14.SA.V1 (N= 295,362) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y14.FMT (N= 295,363) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT14

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 05 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3d

PURPOSE:
Convert the 2015 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT15) (See Appendix A.311)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY15.SA.V1 (N= 298,136) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y15.FMT (N= 298,137) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT15

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 05 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3e

PURPOSE:
Convert the 2016 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT16) (See Appendix A.312)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY16.SA.V1 (N= 303,976) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y16.FMT (N= 303,977) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT16

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 07 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3f

PURPOSE:
Convert the 2017 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT17) (See Appendix A.313)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY17.SA.V1 (N= 310,128) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y17.FMT (N= 310,129) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT17

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 06 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3g

PURPOSE:
Convert the 2018 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT18) (See Appendix A.314)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY18.SA.V1 (N= 312,979) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y18.FMT (N= 312,980) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT18

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 06 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3h

PURPOSE:
Convert the 2019 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT19) (See Appendix A.315)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY19.SA.V1 (N= 319,548) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y19.FMT (N= 319,549) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT19

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 07 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3i

PURPOSE:
Convert the 2020 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT20) (See Appendix A.316)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY20.SA.V1 (N= 325,249) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y20.FMT (N= 325,250) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT20

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 06 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 3j

PURPOSE:
Convert the 2021 9-digit Zip Crosswalk SAS datafile to a SAS format library.

DATE EXECUTED: 3/23/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.PRDLIB(CVTFMT21) (See Appendix A.317)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF20P.ZPXWKY21.SA.V1 (N= 330,975) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y21.FMT (N= 330,976) (SAS Format Library)

LOG: OPDR.TG.PRD.ETTW.#8047.DAF20.ZIPFIP.CVTFMT21

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 06 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of records in SAS output format library is 1 more than that of SAS input data file (for the “Other” category)

Step 4

PURPOSE:
Create yearly files of 9 digit ZIP codes and converted FIPS codes for 2016 to 2019

DATE EXECUTED: 12/4/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(ZJCL1619) (See Appendix A.318)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(ZIP2FIP) (See Appendix A.319)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF20P.CMBDBDH.SA.V1 (N=61,443,969) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF20P.CMBCERH.SA.V1 (N=42,039,634) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y*yy*.FMT where *yy* 16-19 (SAS File Format)
OPDR.TG.PRD.ETTW.*id*.DAF*yy*.FIPS.FMTLIB where *yy* 16-19 and *id* #6502 when *yy*=16,17,19 and #4941 when *yy*=18 (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIP*yy*.SA.V1 where *yy* 16-19 (N=74,429,833) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.ZJCL1619

APPROXIMATE PROCESSING TIME: 8 hours 58 minutes 31 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”

- Formal code review

Step 5

PURPOSE:
Create yearly files of 9 digit ZIP codes and converted FIPS codes for 2020 to 2021

DATE EXECUTED: 11/28/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(ZJCL2021) (See Appendix A.320)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(ZIP2FIP) (See Appendix A.319)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF*yy*P.CMBDBDE.SA.V1 where *yy* 20-21 (*yy*=20 N=10,488,463, *yy*=21 N=10,192,368) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF*yy*P.COMBCERE.SA.V1 where *yy* 20-21 (*yy*=20 N=7,634,256, *yy*=21 N=7,441,536) (SAS File Format)
OPDR.TG.PRD.ETTW.#8047.DAF20.FIPSZP9.Y*yy*.FMT where *yy* 20-21 (SAS File Format)
OPDR.TG.PRD.ETTW.*id*.DAF*yy*.FIPS.FMTLIB where *yy* 20-21 and *id* #8047 when *yy* 20 and #6266 when *yy* 21 (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIP*yy*.SA.V1 where *yy* 20-21 (*yy*=20 N=15,774,962, *yy*=21 N=15,396,963) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.ZJCL2021

APPROXIMATE PROCESSING TIME: 0 hours 14 minutes 05 seconds

QA:
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 6

PURPOSE:
Propagate zip and fips

DATE EXECUTED: 12/04/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(PROP)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):

OPDR.TG.PRD.ETTW.#8047.DAF21I.Y2015.SA.V1 (N= 37,486,887) (SAS File Format)
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIP*yy*.SA.V1 where *yy* 16-21 (*yy*=16-19 N= 74,429,833
yy=20 N=15,774,962
yy=21 N=15,396,963)
(SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIPALL.SA.V1 (N= 75,699,978) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.ZIPALL

APPROXIMATE PROCESSING TIME: 0 hours 14 minutes 05 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 7

PURPOSE:
Split combined file into yearly files to allow the FINANN programs to run simultaneously

DATE EXECUTED: 12/05/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(JCLYRSP) (See Appendix A.322)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIPALL.SA.V1 (N= 75,699,978) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21P.ZIPFIP*yy*.SA.V1 where *yy*= 16 – 21 (N= 75,699,978) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.JCLYRSP

APPROXIMATE PROCESSING TIME: 02 hours 26 minutes 04 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Step 8

PURPOSE:
Create a Patch file for DMG

DATE EXECUTED: 12/13/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.PRDLIB(STATEMR) (See Appendix A.323)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR) (See Appendix A.2)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.ZIPALL.SA.V1 (n=75,699,978)
OPDR.TG.PRD.ETTW.#8047.DAF21P.DMSTW.SA.V1 (n=37,522,156)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF21I.PSTMR.SA.V2 (N=75,703,195)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF21.ZIPFIP.STATEMR

APPROXIMATE PROCESSING TIME: 00 hours 49 minutes 29 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review

Data Documentation: SSA Program Analyst Manual, (RAND Manual, May 2007) Chapter 6

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