Volume 8: DAF22 Construction Workflow Charts and Task Tables

April 2024

Submitted to:

Social Security Administration
Office of Retirement and Disability Policy
Office of Research, Demonstration, and Employment Support
Washington, DC 20024-2796
Project Officers: Christopher D. Earles and Tomas Padilla
Contract Number: 28321322D00060010

Submitted by:

Mathematica
1100 1st Street, NE
12th Floor
Washington, DC 20002-4221
Telephone: (202) 484-9220
Facsimile: (202) 863-1763
Project Director: Matthew Urato
Reference Number: 51747.BY.T06.160.000

Suggested Citation: .S. Social Security Administration, Office of Retirement and Disability Policy, Office of Research, Demonstration, and Employment Support. (2022). "Disability Analysis File 2022 (DAF22) Documentation: Data from January 1994 through December 2022." Washington, DC: Mathematica, April 2024. [Volume 8: DAF22 Construction Workflow Charts and Task Tables]. Retrieved from https://www.ssa.gov/disabilityresearch/daf.html.

This page has been left blank for double-sided copying.

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
COSSN	Claimants Own Social Security Number
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
DRF	Disability Research File
DWB	Disabled Widow Beneficiaries
EDW	Enterprise Data Warehouse
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
RECS	Race and Ethnicity Classification System
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 DAF22.** Provides an overview of the structure and contents of the DAF and related linkable files.
- **Volume 2: Working with the DAF22.** 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 DAF22.** 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 DAF22 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 DAF22 Against Other Sources.** Provides an explanation of validation methods and summary of validation results.
- **Volume 7: DAF22 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: DAF22 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: DAF22 Source File Descriptions.** Describes the administrative source files used to construct the DAF.
- **Volume 10: DAF22 Administrative Source File Documentation.** Contains documentation from SSA or other agencies on the administrative source files described in Volume 9.
- **Volume 11: DAF22 Construction Code.** Contains all SAS code used to construct the DAF.
- **Volume 12: DAF22 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 DAF22,” 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 DAF22”
View lists of DAF variables	Volume 4, “Lists of DAF22 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 DAF22”
Identify variables for a specific research task	Volume 4, “Lists of DAF22 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 DAF22”
Identify administrative data sources for the DAF	Volume 9, “DAF22 Source File Descriptions”
Understand the linkage of the DAF to RSA-911 data and contents of the RSA files	Volume 12, “DAF22 RSA Administrative Source File Documentation”
Generate ideas for using the DAF more efficiently	Volume 1, “Getting Started with the DAF22” and Volume 2, “Working with the DAF22”
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 DAF22”
Understand what variables have changed in the most recent DAF	Volume 4, “Lists of DAF22 Variables”
Read about how information in the DAF is validated against other sources	Volume 6, “Validating the DAF22 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.*

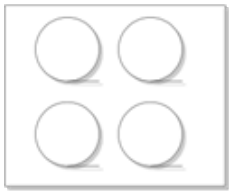
Data Documentation: provides references to external documentation, such as the relevant chapters in the SSA Program Analyst Manual, (RAND Manual, May 2007), where applicable.

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

C. Legend for DAF22 construction workflow charts

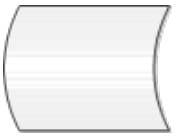
Tape File/Flat file or Multiple Tape/Flat files with the same data elements if number of files is noted in the shape

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

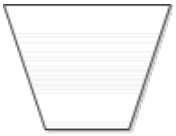


Multiple Tape/Flat files – used when space permits the individual representation of each file or files do not contain the same data elements

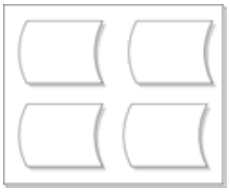
Single Excel Table



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

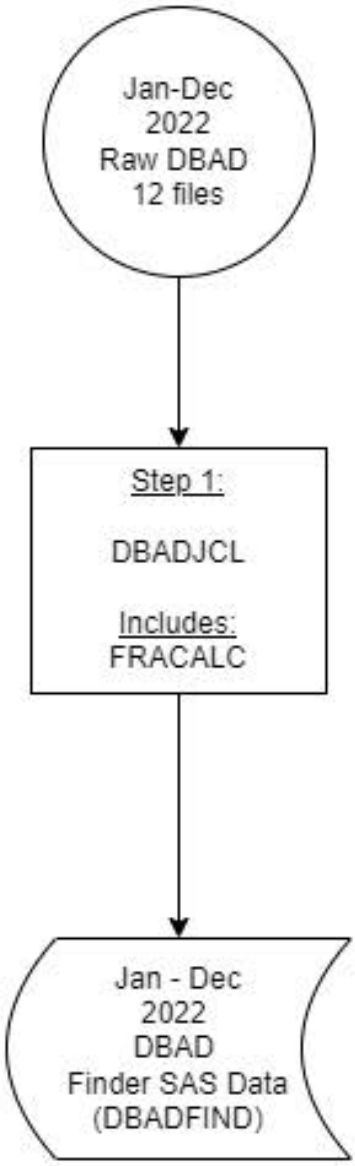
Mainframe/JCL/SAS program used for copy files Returns from SSA. Program written & executed by SSA

Mainframe/JCL/SAS Program

II. Workflow Charts and Task Tables for DAF22

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.#6502.DAF22.FINDER.PRDLIB(DBJCL)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(FRACALC)

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

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.DBADFIND.SA.V1 (N = 9,831,237) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.DBADFIND.DBFIND

APPROXIMATE PROCESSING TIME: 05 hours 37 minutes 31 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	DAF20	DAF21	DAF22	Rate	
				20 VS 21	21 VS 22
1	59,088,245	60,052,552	60,929,608	1.64%	1.46
2	59,181,788	60,121,036	60,992,933	1.59%	1.45
3	59,299,300	60,211,819	61,076,254	1.54%	1.44
4	59,378,534	60,289,807	61,155,516	1.53%	1.44
5	59,462,653	60,373,198	61,236,989	1.53%	1.43
6	59,529,130	60,444,443	61,294,154	1.54%	1.41
7	59,591,020	60,513,005	61,372,211	1.55%	1.42
8	59,671,771	60,596,663	61,452,445	1.55%	1.41
9	59,750,926	60,652,990	61,517,262	1.51%	1.42
10	59,842,975	60,733,646	61,600,923	1.49%	1.43
11	59,906,887	60,783,143	61,645,444	1.46%	1.42
12	59,969,936	60,846,200	61,714,077	1.46%	1.43

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

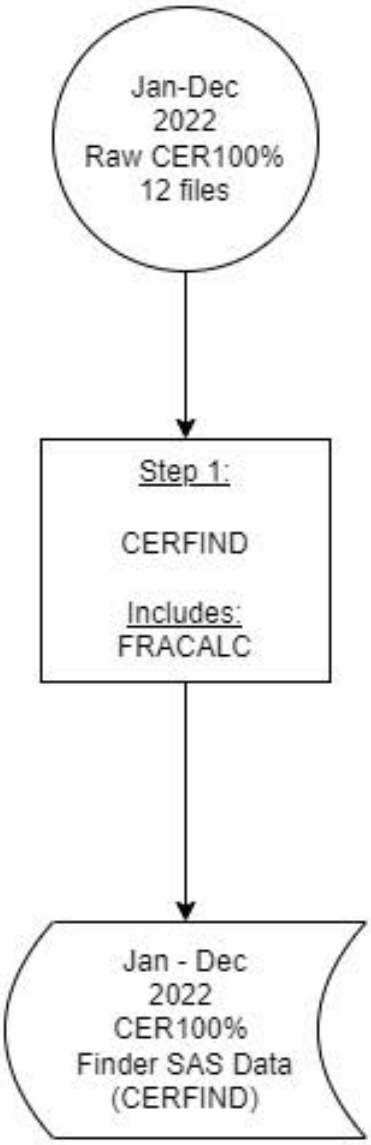
	OBS	RATE
DAF19	10,710,903	-1.47%
DAF20	10,488,463	-2.08%
DAF21	10,192,368	-2.82%
DAF22	9,831,237	-3.54%

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

SSA Contact Staff:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 02/28/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.PRDLIB(CERFIND)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(FRACALC)

INPUT(S):
MTOSSI.CER100.FIELD.D22xx WHERE xx=01 – 12 (N = see table below) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.CERFIND.SA.V1 (N = 7,441,536) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.CERFIND

APPROXIMATE PROCESSING TIME: 00 hour 42 minutes 08 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	DAF20	DAF21	DAF22	Rate	
				20 VS 21	21 VS 22
1	20,460,435	20,279,617	20,202,827	-0.88374	-0.37866
2	20,498,751	20,258,828	20,257,874	-1.17043	-0.00471
3	20,511,392	20,235,788	20,229,602	-1.34366	-0.03057
4	20,503,532	20,186,555	20,208,964	-1.54596	0.11101
5	20,453,339	20,145,413	20,251,601	-1.5055	0.52711
6	20,459,768	20,148,948	20,263,103	-1.51918	0.56656
7	20,436,056	20,140,494	20,280,811	-1.44628	0.69669
8	20,392,174	20,156,742	20,346,051	-1.15452	0.93918
9	20,388,722	20,178,913	20,375,311	-1.02904	0.97328
10	20,373,545	20,200,417	20,406,141	-0.84977	1.01841
11	20,317,662	20,187,385	20,457,158	-0.6412	1.33634
12	20,230,567	20,154,765	20,487,941	-0.37469	1.65309

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

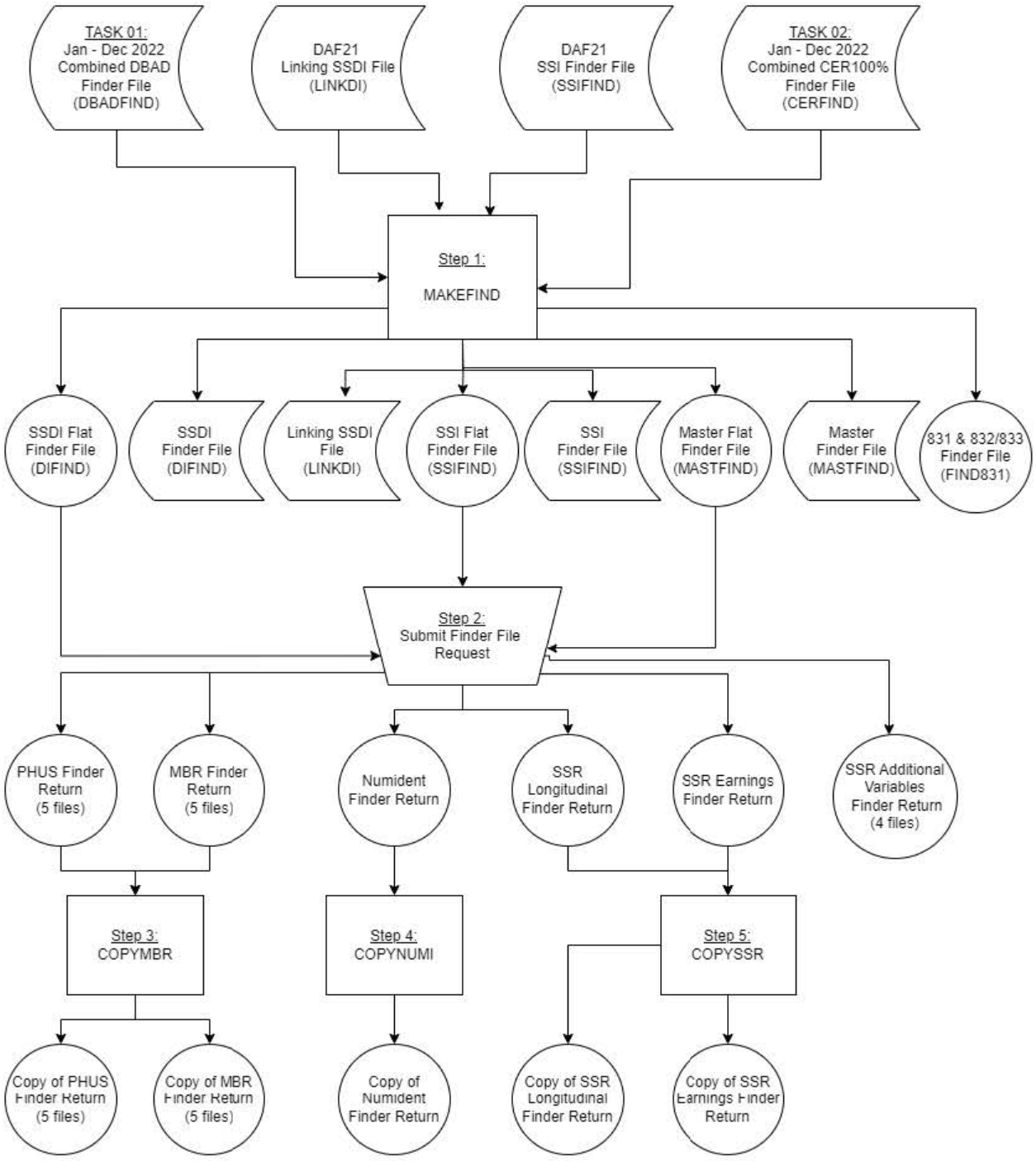
	OBS	RATE
DAF16	8,057,736	.
DAF17	8,025,639	-3.98%
DAF18	7,934,636	-1.13%
DAF19	7,843,650	-1.15%
DAF20	7,634,256	-2.67%
DAF21	7,441,536	-2.52%
DAF22	7,281,594	-2.14%

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

SSA Contact Staff:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@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 1990-2022 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: 03/02/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.PRDLIB(MAKEFIND)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.DBADFIND.SA.V1 (N= 9,831,237) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.CERFIND.SA.V1 (N= 7,281,594) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.LINKDI.SA.V1 (N= 25,369,154) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF21P.SSIFIND.SA.V1 (N=21,558,767) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.LINKDI.SA.V1 (N= 25,903,511) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.DIFIND.SA.V1 (N= 24,932,943) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.DIFIND.FL.V1 (N=24,932,943) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.SA.V1 (N=21,921,301) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.FL.V1 (N=21,921,301) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.SA.V1 (N=38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.FL.V1 (N=38,239,513) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.FIND831.SA.V1 (N= 39,295,197) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.MAKEFIND

APPROXIMATE PROCESSING TIME: 00 hours 08 minutes 08 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

	DAF20	DAF21	DAF22	Rate	
				20 VS 21	21 VS 22
LINKDI	24,800,117	25,369,154	25,903,511	2.29%	2.11%
DIFIND	23,879,601	24,422,962	24,932,943	2.28%	2.09%
SSIFIND	21,171,274	21,558,767	21,921,301	1.83%	1.68%
MASTFIND	36,763,625	37,523,560	38,239,513	2.07%	1.91%
FIND831	37,771,082	38,555,294	38,239,513	2.08%	1.92%

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.#6502.DAF22P.DIFIND.FL.V1 (N=24,422,962) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.FL.V1 (N=21,558,767) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.FL.V1 (N=37,523,560) (Flat file format)

OUTPUT(S):
MBR and PHUS Finder returns

- ORS.P1171.#1399.DAF2022.DAFMBR.F1.R230329 (N= 8,978,955) (Flat file format)
- ORS.P1171.#1399.DAF2022.PHUSOUT.F1.R230329 (N =8,978,955) (Flat file format)
- ORS.P1171.#1399.DAF2022.DAFMBR.F2.R230329 (N= 8,975,977) (Flat file format)
- ORS.P1171.#1399.DAF2022.PHUSOUT.F2.R230329 (N = 8,975,977) (Flat file format)
- ORS.P1171.#1399.DAF2022.DAFMBR.F3.R230329 (N= 8,974,223) (Flat file format)
- ORS.P1171.#1399.DAF2022.PHUSOUT.F3.R230329 (N = 8,974,223) (Flat file format)
- ORS.P1171.#1399.DAF2022.DAFMBR.F4.R230329 (N= 8,977,320) (Flat file format)
- ORS.P1171.#1399.DAF2022.PHUSOUT.F4.R230329 (N = 8,977,320) (Flat file format)
- ORS.P1171.#1399.DAF2022.DAFMBR.F5.R230329 (N= 8,975,430) (Flat file format)
- ORS.P1171.#1399.DAF2022.PHUSOUT.F5.R230329 (N = 8,975,430) (Flat file format)

Numident Finder return

- AIS.P1252.NUMI.DAF22.FLAT.R2302 (N= 143,460,160) (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: 04/20/23

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF22.FINDER.PRDLIB(COPYMBR)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
ORS.P1171.#1399.DAF2022.DAFMBR.F1.R230309 (N= 9,154,394) (Flat file format)
ORS.P1171.#1399.DAF2022.PHUSOUT.F1.R230309 (N =9,154,394) (Flat file format)
ORS.P1171.#1399.DAF2022.DAFMBR.F2.R230309 (N= 9,152,406) (Flat file format)
ORS.P1171.#1399.DAF2022.PHUSOUT.F2.R230309 (N = 9,152,406) (Flat file format)
ORS.P1171.#1399.DAF2022.DAFMBR.F3.R230309 (N= 9,149,780) (Flat file format)
ORS.P1171.#1399.DAF2022.PHUSOUT.F3.R230309 (N = 9,149,780) (Flat file format)
ORS.P1171.#1399.DAF2022.DAFMBR.F4.R230309 (N= 9,153,318) (Flat file format)
ORS.P1171.#1399.DAF2022.PHUSOUT.F4.R230309 (N = 9,153,318) (Flat file format)
ORS.P1171.#1399.DAF2022.DAFMBR.F5.R230309 (N= 9,152,018) (Flat file format)
ORS.P1171.#1399.DAF2022.PHUSOUT.F5.R230309 (N = 9,152,018) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F1.R230309 (N= 9,154,394) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F1.R230329 (N= 9,154,394) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F2.R230329 (N= 9,152,406) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F2.R230329 (N= 9,152,406) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F3.R230329 (N= 9,149,780) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F3.R230329 (N= 9,149,780) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR..F4.R230329 (N= 9,153,318) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F4.R230329 (N= 9,153,318) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F5.R230329 (N= 9,152,018) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F5.R230329 (N= 9,152,018) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.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: 03/14/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF22.FINDER.PRDLIB(COPYNUMI)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
AIS.P1252.NUMI.DAF22.FLAT.R2302 (N= 143,460,160) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.NUMI.FL.V1 (N= 143,460,160) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.FINDER.COPYNUM

APPROXIMATE PROCESSING TIME: 00 hours 08 minutes 24 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.$4671.DAF22.FINDER.PRDLIB(COPYSSR1) – For Longitudinal Returns
OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.PRDLIB(COPYSSR) – For Earnings returns

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
MTOSSI.MISC.LONG.FLAT.DAF22.D202302 (N= 76,761,147) (Flat file format)
MTOSSI.MISC.EARN.FRERN22.D2303 (N= 222,168,684) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.SSRLONG.FL.V1 (N= 76,761,147) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.SSRERN.FL.V1 (N= 222,168,684) (Flat file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.FINDER.COPYSSR1
OPDR.TG.PRD.ETTW.#6502.DAF22.FINDER.COPYSSR

APPROXIMATE PROCESSING TIME:
2 hours 32 minutes 23 seconds for Longitudinal Returns
0 hours 02 minutes 30 seconds for Earnings Returns

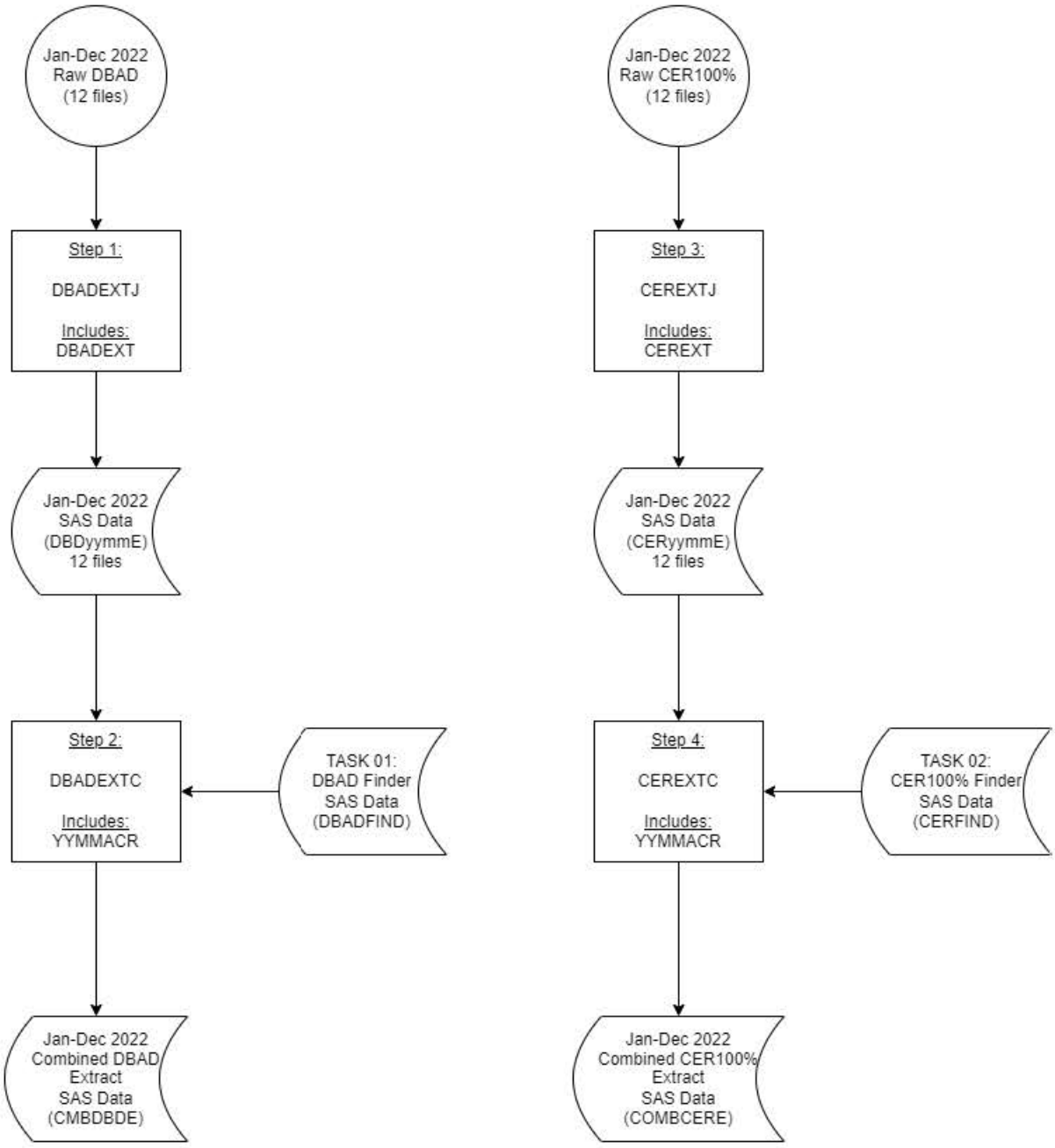
QA:

- 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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 4. CER and DBAD second pull



Task No.: 4	**Task Name:** DBAD and CER100% Extraction

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: 05/25/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(DBADEXTJ)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(DBADEXT)

INPUT(S):
MTOSSI.T2.DBADMBR.D22xx where xx=01 – 12 (N = see below) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.DBD22xxE.SA.V1 where xx=01 – 12 (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.DBADEXT

APPROXIMATE PROCESSING TIME: 5 hours 46 minutes 13 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	DAF22	PCT 22 vs 21
1	59,088,245	60,052,552	1.63%	60,929,608	1.46%
2	59,181,788	60,121,036	1.58%	60,992,933	1.45%
3	59,299,300	60,211,819	1.54%	61,076,254	1.44%
4	59,378,534	60,289,807	1.53%	61,155,516	1.44%
5	59,462,653	60,373,198	1.53%	61,236,989	1.43%
6	59,529,130	60,444,443	1.54%	61,294,154	1.41%
7	59,591,020	60,513,005	1.55%	61,372,211	1.42%
8	59,671,771	60,596,663	1.55%	61,452,445	1.41%
9	59,750,926	60,652,990	1.51%	61,517,262	1.42%
10	59,842,975	60,733,646	1.49%	61,600,923	1.43%
11	59,906,887	60,783,143	1.46%	61,645,444	1.42%
12	59,969,936	60,846,200	1.46%	61,714,077	1.43%

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

# of Output Observations					
N	DAF20	DAF21	PCT 21 vs 20	DAF22	PCT 22 vs 21
1	57,802,276	58,752,288	1.64%	59,624,335	1.48%
2	57,892,817	58,826,188	1.61%	59,692,902	1.47%
3	57,994,718	58,904,283	1.57%	59,764,446	1.46%
4	58,073,004	58,977,973	1.56%	59,838,505	1.46%
5	58,147,817	59,055,367	1.56%	59,914,810	1.46%
6	58,212,411	59,125,771	1.57%	59,980,098	1.44%
7	58,277,481	59,195,287	1.57%	60,053,049	1.45%
8	58,353,743	59,272,291	1.57%	60,128,587	1.44%
9	58,440,728	59,338,810	1.54%	60,200,483	1.45%
10	58,532,512	59,415,640	1.51%	60,277,398	1.45%
11	58,606,368	59,480,152	1.49%	60,335,701	1.44%
12	58,675,926	59,551,539	1.49%	60,406,494	1.44%

Step 2

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

DATE EXECUTED: 05/31/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(DBADEXTC)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.CMBDBAD.SA.V1 (N=9,831,237) (SAS File Format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.DBD22xxE.SA.V1 where xx=01 – 12 (N = see output table from Step 1) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.CMBDBDE.SA.V1 (N = 9,831,237) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.DBDEXTC

APPROXIMATE PROCESSING TIME: 00 hours 14 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

	# obs	% change
DAF20	10,488,463	
DAF21	10,192,368	-2.82%
DAF22	9,831,237	-3.54%

- 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: 06/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(CEREXTJ)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(CEREXT)

INPUT(S):
MTOSSI.CER100.FIELD.D22xx where xx=01 – 12 (N = see below) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.CER22xxE.SA.V1 where xx=01 – 12 (N = see below) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.CEREXT

APPROXIMATE PROCESSING TIME: 01 hours 11 minutes 07 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	DAF22	PCT 22 vs 21
1	20,460,435	20,279,617	-0.88%	20,202,827	-0.38%
2	20,498,751	20,258,828	-1.17%	20,257,874	0.00%
3	20,511,392	20,235,788	-1.34%	20,229,602	-0.03%
4	20,503,532	20,186,555	-1.55%	20,208,964	0.11%
5	20,453,339	20,145,413	-1.51%	20,251,601	0.53%
6	20,459,768	20,148,948	-1.52%	20,263,103	0.57%
7	20,436,056	20,140,494	-1.45%	20,280,811	0.70%
8	20,392,174	20,156,742	-1.15%	20,346,051	0.94%
9	20,388,722	20,178,913	-1.03%	20,375,311	0.97%
10	20,373,545	20,200,417	-0.85%	20,406,141	1.02%
11	20,317,662	20,187,385	-0.64%	20,457,158	1.34%
12	20,230,567	20,154,765	-0.37%	20,487,941	1.65%

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

# of Output Observations					
N	DAF20	DAF21	PCT 21 vs 20	DAF22	PCT 22 vs 21
1	18,147,256	18,026,398	-0.67%	18,009,263	-0.10%
2	18,175,258	18,008,052	-0.92%	18,054,031	0.26%
3	18,183,350	17,990,152	-1.06%	18,030,788	0.23%
4	18,183,775	17,949,502	-1.29%	18,012,612	0.35%
5	18,142,767	17,924,058	-1.21%	18,051,592	0.71%
6	18,154,033	17,932,988	-1.22%	18,066,161	0.74%
7	18,139,670	17,930,664	-1.15%	18,082,224	0.85%
8	18,104,259	17,946,639	-0.87%	18,142,113	1.09%
9	18,108,067	17,972,508	-0.75%	18,174,608	1.12%
10	18,099,877	17,995,407	-0.58%	18,205,685	1.17%
11	18,054,955	17,990,069	-0.36%	18,254,319	1.47%
12	17,975,169	17,958,959	-0.09%	18,279,316	1.78%

Step 4

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

DATE EXECUTED: 06/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.PRDLIB(CEREXTC)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.COMBCER.SA.V1 (N=7,281,594)
OPDR.TG.PRD.ETTW.#6266.DAF22P.CER22xxE.SA.V1 where xx=01 – 12 (N=see output table from Step 3) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.COMBCERE.SA.V1 (N = 7,281,594) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6266.DAF22.CERDBAD.CEREXTC

APPROXIMATE PROCESSING TIME: 00 hours 06 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

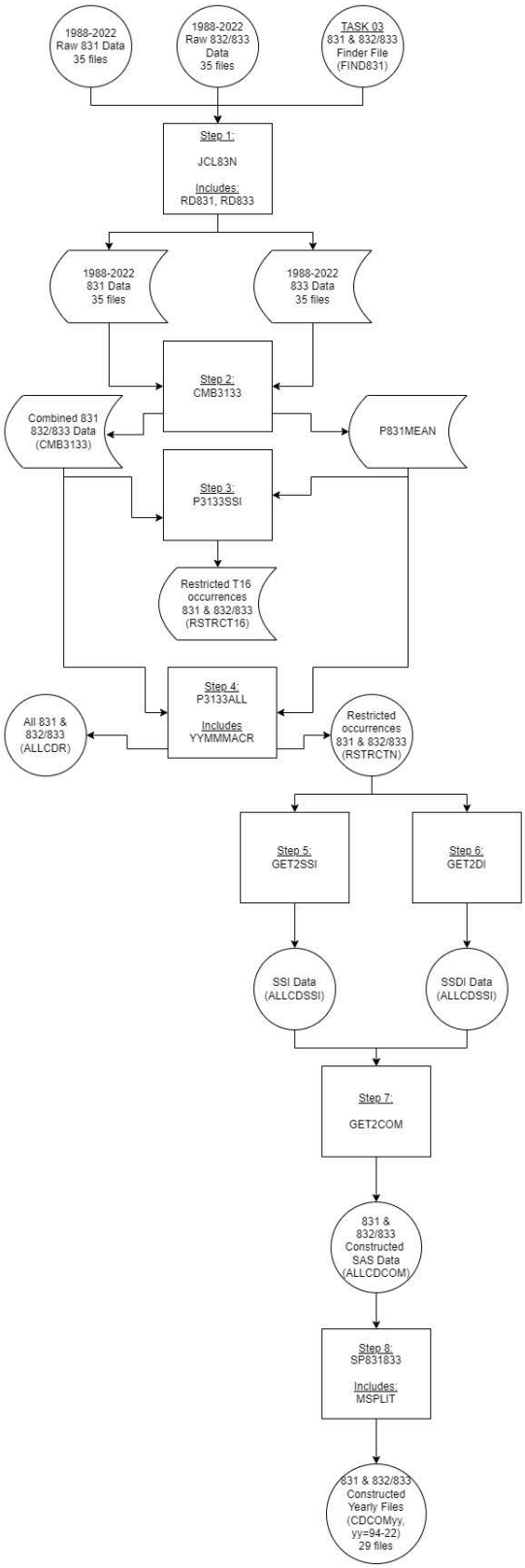
	# obs	% change
DAF20	7,634,256	
DAF21	7,441,536	-2.52%
DAF22	7,281,594	-2.14%

- 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.

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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 2022.

DATE EXECUTED: 03/09/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(JCL83N)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(RD831)
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(RD833)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.FIND831.SA.V1 (N= 39,295,197) (SAS file format)
AIS.F5750DDB.UNI831.CYyyyy where yyyy=1988-2022 (N= see table below) (Flat file format)
AIS.D5750030.UNI831.MONDAY.WEEK2261 (N= 2,942,529) (Flat file format)
AIS.F5750DDB.UNI833.CYyyyy where yyyy=1988-2022 (N= see table below) (Flat file format)
AIS.D5750030.UNI833.MONDAY.WEEK2261 (Flat file format) (N= 730,552)

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
2021	2,942,535	611,631
2022	2,791,226	730,552

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.Yyyyy where yyyy=1988-2022 (N= see table below) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.P833.Yyyyy where yyyy=1998-2022 (N= see table below) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.JCL83N

APPROXIMATE PROCESSING TIME: 0 hour 43 minutes 48 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

Yearly File	831 Output Observations			833 Output Observations		
	DAF21	DAF22	Rate 21 VS 22	DAF21	DAF22	Rate 21 VS 22
1988	1,338,803	1,340,816	0.15%	325,314	325,455	0.04%
1989	1,477,788	1,479,920	0.14%	319,838	319,955	0.04%
1990	1,712,456	1,715,049	0.15%	149,761	149,822	0.04%
1991	2,074,036	2,077,375	0.16%	99,117	99,170	0.05%
1992	2,890,561	2,896,348	0.20%	77,009	77,075	0.09%
1993	2,980,181	2,987,318	0.24%	57,713	57,765	0.09%
1994	3,061,406	3,069,737	0.27%	96,407	96,492	0.09%
1995	3,077,799	3,086,165	0.27%	192,243	192,407	0.09%
1996	3,153,552	3,160,706	0.23%	363,878	363,924	0.01%
1997	2,832,578	2,838,500	0.21%	881,340	881,367	0.00%
1998	2,638,935	2,644,511	0.21%	962,016	962,029	0.00%
1999	2,636,956	2,642,706	0.22%	970,466	970,485	0.00%
2000	2,666,151	2,671,922	0.22%	1,065,291	1,065,306	0.00%
2001	2,732,524	2,739,050	0.24%	971,105	971,116	0.00%
2002	2,952,429	2,960,031	0.26%	1,007,846	1,007,853	0.00%
2003	3,120,293	3,129,719	0.30%	780,730	780,733	0.00%
2004	3,173,306	3,184,179	0.34%	775,637	775,644	0.00%
2005	3,088,306	3,099,840	0.37%	628,488	628,487	0.00%
2006	3,032,828	3,044,960	0.40%	326,157	326,159	0.00%
2007	3,079,153	3,092046	0.42%	328,946	328,953	0.00%
2008	3,177,499	3,191,562	0.44%	271,013	271,028	0.01%
2009	3,338,126	3,355,205	0.51%	430,256	430,260	0.00%
2010	3,605,243	3,627,982	0.63%	414,997	415,006	0.00%
2011	3,647,957	3,676,306	0.78%	503,515	503,520	0.00%
2012	3,257,877	3,287,414	0.91%	536,108	536,108	0.00%
2013	3,048,987	3,082,249	1.09%	535,528	535,529	0.00%
2014	2,725,122	2,759,155	1.25%	800,684	800,685	0.00%
2015	2,589,963	2,628,521	1.49%	934,036	934,035	0.00%
2016	2,320,251	2,362,034	1.80%	1,148,006	1,148,005	0.00%
2017	2,149,957	2,198,172	2.24%	1,041,676	1,041,670	0.00%
2018	1,952,767	2,008,833	2.87%	1,099,358	1,099,348	0.00%
2019	1,974,926	2,051,944	3.90%	883,939	883,935	0.00%
2020	1,632,608	1,760,639	7.84%	482,709	482,705	0.00%
2021	1,121,756	1,478,787	31.83%	609,659	609,655	0.00%
2022	-	1,049,166	-		728,108	

Step 2

PURPOSE:
Combine 831 and 833 data for each year in the range of 1988 to 2022.

DATE EXECUTED: 03/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(CMB3133)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.Y&YEAR. (WHERE YEAR=1988-2022) (N = see output tables from Step #1) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.P833.Y&YEAR. (WHERE YEAR=1988-2022) (N = see output tables from Step #1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.CMB3133.SA.V1 (N= 113,178,661) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.MEAN.SA (N=1) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.CMB3133

APPROXIMATE PROCESSING TIME: 00 hour 22 minutes 52 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%
DAF22	113,178,661	2.58%

Step 3

PURPOSE:
Process 831/833 data for SSI beneficiaries

DATE EXECUTED: 03/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(P3133SSI)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.CMB3133.SA.V1
(WHERE RID IN ('R', 'S')) (N= 58,620,843) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.MEAN.SA (N=1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSTRCT16.SA.V1 (N= 23,822,817) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.P3133SSI

APPROXIMATE PROCESSING TIME: 00 hour 08 minutes 31 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%
DAF22	58,620,843	23,822,817	1.81%

Step 4

PURPOSE:
Process 831/833 data for all beneficiaries.

DATE EXECUTED: 03/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(P3133ALL)

INCLUDED SAS PROGRAM(S):
YYMMMACR from DAF21 Utility Library

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.CMB3133.SA.V1 (N= 113,178,661) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.MEAN.SA (N=1) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDR.SA.V1 (N= 38,882,130) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.RSTRCTN.SA.V1 (N= 38,882,130) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.P3133ALL

APPROXIMATE PROCESSING TIME: 15 hours 06 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 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%
DAF22	113,178,661	38,882,130	2.11%

Step 5

PURPOSE:
Create 831/833 data for SSI beneficiaries.

DATE EXECUTED: 03/13/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(GET2SSI)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSTRCTN.SA.V1 (WHERE PROGRAM IN (2, 3)) (N= 23,846,319) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.FL.V1 (N= 21,921,301) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDSSI.SA.V1 (N= 20,453,764) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.GET2SSI

APPROXIMATE PROCESSING TIME: 01 hour 50 minutes 00 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%
DAF22	20,453,764	1.80%

Step 6

PURPOSE:
Create 831/833 data for DI beneficiaries.

DATE EXECUTED: 03/13/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(GET2DI)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSTRCTN.SA.V1 (WHERE PROGRAM IN (1, 2))
(N= 27,367,725) (SAS file format)

OPDR.TG.PRD.ETTW.#6266.DAF22P.LINKDI.SA.V1 (N= 25,903,511) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDRDI.SA.V1 (N= 23,568,174) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.GET2DI

APPROXIMATE PROCESSING TIME: 06 hour 21 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 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%
DAF22	23,568,174	2.29%

Step 7

PURPOSE:
Combine SSI and DI 831/833 data.

DATE EXECUTED: 03/14/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(GET2COM)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDRDI.SA.V1 (N= 23,568,174) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDSSI.SA.V1 (N= 20,453,764) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.ALLCDCOM.SA.V1 (N= 36,558,377) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.GET2COM

APPROXIMATE PROCESSING TIME: 02 hours 38 minutes 49 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	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%
DAF22	36,558,377	2.00%

- Proc Contents Comparison of Combined DBAD output file to previous DAF year’s file: available at 'OPDR.TG.PRD.ETTW.#6502.DAF22.P831.CONCOMP'

Step 8

PURPOSE:
Split the combined file into yearly files (1994-2022).

DATE EXECUTED: 03/14/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(SP831833)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.PRDLIB(MSPLIT)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.ALLCDCOM.SA.V1 (N= 36,558,377) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.CDCOMyy.SA.V1 (N= 36,558,377) (SAS file format)
(yy = 94 – current DAF year)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.P831.SP831833

APPROXIMATE PROCESSING TIME: 15 hours 26 minutes 25 seconds

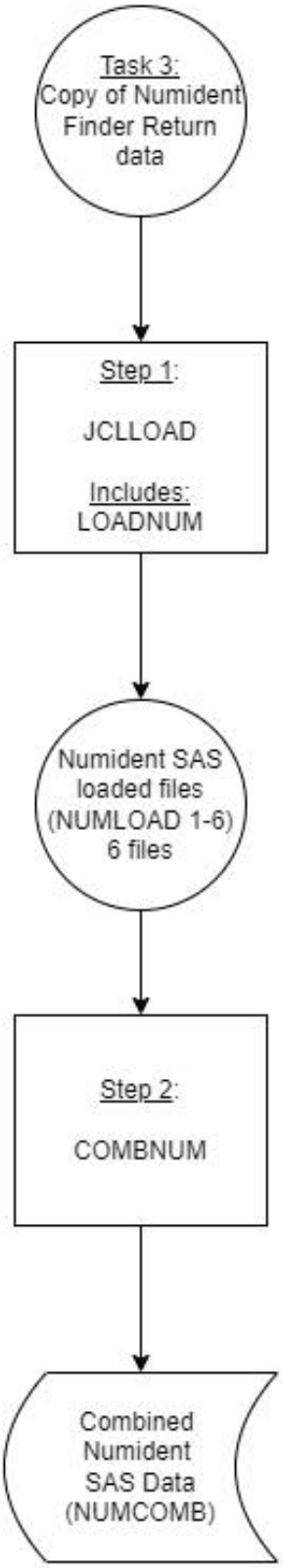
QA:

- 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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 05/08/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.NUM.PRDLIB(JCLLOAD)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#5413.DAF22.NUM.PRDLIB(LOADNUM)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.NUMI.FL.V1 (N=143,460,160) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD1.SA.V1 (N= 23,997,407) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD2.SA.V1 (N= 23,997,278) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD3.SA.V1 (N= 23,996,742) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD4.SA.V1 (N= 23,996,698) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD5.SA.V1 (N= 23,995,177) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD6.SA.V1 (N= 23,456,659) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.NUM.JCLLOAD

APPROXIMATE PROCESSING TIME: 00 hours 46 minutes 20 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: 05/08/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.NUM.PRDLIB(COMBNUM)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD1.SA.V1 (N= 23,997,407) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD2.SA.V1 (N= 23,997,278) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD3.SA.V1 (N= 23,996,742) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD4.SA.V1 (N= 23,996,698) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD5.SA.V1 (N= 23,995,177) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NUMLOAD6.SA.V1 (N= 23,456,659) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.NUMCOMB.SA.V1 (N = 38,235,969) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.NUM.COMBNUM

APPROXIMATE PROCESSING TIME: 00 hours 22 minutes 26 seconds

QA:

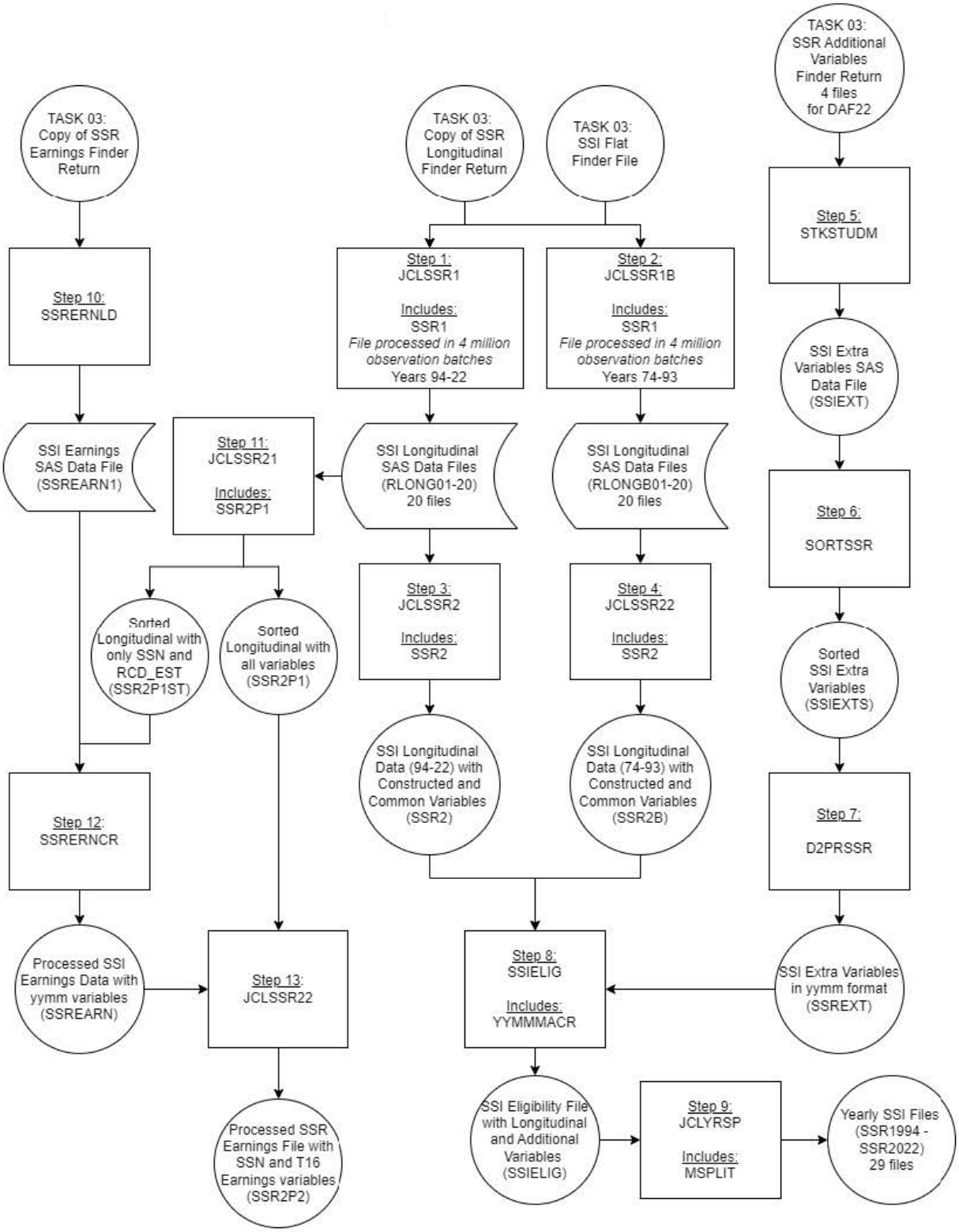
- Confirm whether DBAD file layout has changed since the previous DAF was constructed, then modify program code accordingly
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Year-to-year comparison of output record counts: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

					RATES		
	DAF19	DAF20	DAF21	DAF22	19 vs 20	20 vs 21	22 vs 21
NUMIDENT (FINAL)	35,883,761	36,760,077	37,520,013	38,235,969	2.44%	2.07%	1.9%
NUMIDENT RETURN	131,238,998	135,318,550	139,310,051	143,439,961	3.11%	2.94%	2.96%
MASTERFIND	35,887,308	36,763,626	37,523,560	38,235,969	2.44%	2.07%	1.90%

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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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 1994-2022. 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: 04/03/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR1)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR1)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.SSRLONG.FL.V1 (N =76,761,147) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.SA.V1 (N=21,921,301)) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG01.SA.V1 (N= 2,605,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG02.SA.V1 (N= 2,604,655) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG03.SA.V1 (N= 2,607,615) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG04.SA.V1 (N= 2,602,355) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG05.SA.V1 (N= 2,606,691) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG06.SA.V1 (N= 2,602,379) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG07.SA.V1 (N= 2,607,558) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG08.SA.V1 (N= 2,609,891) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG09.SA.V1 (N= 2,600,134) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG10.SA.V1 (N= 2,603,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG11.SA.V1 (N= 2,601,876) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG12.SA.V1 (N= 2,599,524) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG13.SA.V1 (N= 2,600,128) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG14.SA.V1 (N= 2,599,234) (SAS file format)

OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG15.SA.V1 (N= 2,601,749) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG16.SA.V1 (N= 2,608,965) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG17.SA.V1 (N= 2,599,885) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG18.SA.V1 (N= 2,606,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG19.SA.V1 (N= 2,620,806) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG20.SA.V1 (N= 432,714) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSR1S1 (segments 1-20)

APPROXIMATE PROCESSING TIME: 82 HRS 26 MINS 47 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	DAF20	DAF21	DAF22	% difference 20-21	% difference 21-22
1	2,606,751	2,606,080	2,605,886	-0.026%	-0.007%
2	2,602,388	2,604,979	2,604,655	0.100%	-0.012%
3	2,607,068	2,603,900	2,607,615	-0.122%	0.143%
4	2,612,404	2,605,584	2,602,355	-0.261%	-0.124%
5	2,600,092	2,611,874	2,606,691	0.453%	-0.198%
6	2,594,161	2,600,539	2,602,379	0.246%	0.071%
7	2,589,327	2,601,963	2,607,558	0.488%	0.215%
8	2,608,391	2,600,309	2,609,891	-0.310%	0.368%
9	2,601,211	2,596,555	2,600,134	-0.179%	0.138%
10	2,632,136	2,592,163	2,603,942	-1.519%	0.454%
11	2,576,320	2,609,488	2,601,876	1.287%	-0.292%
12	2,549,337	2,600,611	2,599,524	2.011%	-0.042%
13	2,607,579	2,618,989	2,600,128	0.438%	-0.720%
14	2,602,838	2,627,730	2,599,234	0.956%	-1.084%
15	2,605,308	2,581,250	2,601,749	-0.923%	0.794%
16	2,606,679	2,555,204	2,608,965	-1.975%	2.104%
17	2,601,360	2,585,543	2,599,885	-0.608%	0.555%
18	2,594,146	2,605,975	2,606,886	0.456%	0.035%
19	1,090,908	2,191,045	2,620,806	100.846%	19.614%
20			432,714		

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: 04/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR1B)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR1)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.SSRLONG.FL.V1 (N =76,761,147) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIFIND.SA.V1 (N=21,921,301)) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB01.SA.V1 (N= 2,605,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB02.SA.V1 (N= 2,604,655) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB03.SA.V1 (N= 2,607,615) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB04.SA.V1 (N= 2,602,355) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB05.SA.V1 (N= 2,606,691) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB06.SA.V1 (N= 2,602,379) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB07.SA.V1 (N= 2,607,558) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB08.SA.V1 (N= 2,609,891) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB09.SA.V1 (N= 2,600,134) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB10.SA.V1 (N= 2,603,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB11.SA.V1 (N= 2,601,876) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB12.SA.V1 (N= 2,599,524) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB13.SA.V1 (N= 2,600,128) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB14.SA.V1 (N= 2,599,234) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB15.SA.V1 (N= 2,601,749) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB16.SA.V1 (N= 2,608,965) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB17.SA.V1 (N= 2,599,885) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB18.SA.V1 (N= 2,606,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB19.SA.V1 (N= 2,620,806) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB20.SA.V1 (N= 432,714) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSR1B1 (segments 1-20)

APPROXIMATE PROCESSING TIME:
RLONGB01-RLONGB13: 75 HRS 03 MINS 00 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: 05/24/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR2)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG01.SA.V1 (N= 2,605,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG02.SA.V1 (N= 2,604,655) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG03.SA.V1 (N= 2,607,615) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG04.SA.V1 (N= 2,602,355) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG05.SA.V1 (N= 2,606,691) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG06.SA.V1 (N= 2,602,379) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG07.SA.V1 (N= 2,607,558) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG08.SA.V1 (N= 2,609,891) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG09.SA.V1 (N= 2,600,134) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG10.SA.V1 (N= 2,603,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG11.SA.V1 (N= 2,601,876) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG12.SA.V1 (N= 2,599,524) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG13.SA.V1 (N= 2,600,128) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG14.SA.V1 (N= 2,599,234) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG15.SA.V1 (N= 2,601,749) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG16.SA.V1 (N= 2,608,965) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG17.SA.V1 (N= 2,599,885) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG18.SA.V1 (N= 2,606,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG19.SA.V1 (N= 2,620,806) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG20.SA.V1 (N= 432,714) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2.SA.V1 (N= 21,920,370)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSR2R1

APPROXIMATE PROCESSING TIME: 40 HRS 15 MINS 38 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:	18,257,933	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
DAF 22:	21,920,370	1.68% 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: 05/03/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR2B)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB01.SA.V1 (N= 2,605,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB02.SA.V1 (N= 2,604,655) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB03.SA.V1 (N= 2,607,615) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB04.SA.V1 (N= 2,602,355) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB05.SA.V1 (N= 2,606,691) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB06.SA.V1 (N= 2,602,379) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB07.SA.V1 (N= 2,607,558) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB08.SA.V1 (N= 2,609,891) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB09.SA.V1 (N= 2,600,134) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB10.SA.V1 (N= 2,603,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB11.SA.V1 (N= 2,601,876) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB12.SA.V1 (N= 2,599,524) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB13.SA.V1 (N= 2,600,128) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB14.SA.V1 (N= 2,599,234) (SAS file format)

OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB15.SA.V1 (N= 2,601,749) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB16.SA.V1 (N= 2,608,965) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB17.SA.V1 (N= 2,599,885) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB18.SA.V1 (N= 2,606,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB19.SA.V1 (N= 2,620,806) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONGB20.SA.V1 (N= 432,714) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2B.SA.V1 (N = 21,920,370)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSR2R2

APPROXIMATE PROCESSING TIME: 26 HR 06 MIN 26 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: 05/11/2023

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

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
AIS.P1252.ADVRSAS.AVR22.D2304.FILE1A (N=882,456,741) (SAS file format)
AIS.P1252.ADVRSAS.AVR22.D2304.FILE2A (N=882,381,561) (SAS file format)
AIS.P1252.ADVRSAS.AVR22.D2304.FILE3A (N=882,274,299) (SAS file format)
AIS.P1252.ADVRSAS.AVR22.D2304.FILE4A (N=882,278,028) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.STKSTD.SA.V1 (N = 2,979,513,552) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.STKSTUDM

APPROXIMATE PROCESSING TIME: 2 HR 8 MIN 4 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)
DAF22: 2,979,513,552 (3.89% 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: 05/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SORTSSR)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.STKSTD.SA.V1 (N= 2,979,513,552) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIEXTS.SA.V1 (N= 2,979,513,552) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SORTSSR

APPROXIMATE PROCESSING TIME: 7 HR 58 MIN 06 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: 05/15/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(D2PRSSR)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIEXTS.SA.V1 (N= 2,979,513,552) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREXT.SA.V1 (N= 23,730,337) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.D2PRSSR

APPROXIMATE PROCESSING TIME: 3 HR 59 MIN 47 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)
  DAF22: 23,730,337 (1.74% 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: 05/16/2022

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF21.SSR.PRDLIB(SSIELIG)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2.SA.V1 (N= 21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2B.SA.V1 (N = 21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREXT.SA.V1 (N=23,730,337) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N=21,920,370) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG

APPROXIMATE PROCESSING TIME: 22 HR 50 MIN 46 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%
  DAF22: Missing for 18.73%
- 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: 06/05/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLYRSP)

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

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N=21,920,370) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1994.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1995.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1996.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1997.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1998.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR1999.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2000.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2001.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2002.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2003.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2004.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2005.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2006.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2007.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2008.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2009.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2010.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2011.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2012.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2013.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2014.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2015.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2016.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2017.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2018.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2019.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2020.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2021.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2022.SA.V1 (N=21,920,370) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.JCLYRSP

APPROXIMATE PROCESSING TIME: 6 HR 52 MIN 16 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: 05/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSRERNLD)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSRERN.FL.V1 (N = 222,168,684) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREARN1.V1 (N = 222,168,684) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSRERNLD

APPROXIMATE PROCESSING TIME: 00 hours 48 minutes 05 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	Ratio count to PAN
DAF17	189,491,711	8,152,852			4.30%
DAF18	196,571,515	8,428,809	3.74%	3.38%	4.29%
DAF19	203,879,187	8,709,088	3.72%	3.33%	4.27%
DAF20	209,622,216	8,942,558	2.82%	2.68%	4.27%
DAF21	215,656,407	9,166,163	2.88%	2.50%	4.25%
DAF22	222,168,684	9,402,430	3.01%	2.58%	4.23%

- 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 Longitutional 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: 05/15/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR21)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR2P1)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG01.SA.V1 (N= 2,605,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG02.SA.V1 (N= 2,604,655) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG03.SA.V1 (N= 2,607,615) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG04.SA.V1 (N= 2,602,355) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG05.SA.V1 (N= 2,606,691) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG06.SA.V1 (N= 2,602,379) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG07.SA.V1 (N= 2,607,558) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG08.SA.V1 (N= 2,609,891) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG09.SA.V1 (N= 2,600,134) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG10.SA.V1 (N= 2,603,942) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG11.SA.V1 (N= 2,601,876) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG12.SA.V1 (N= 2,599,524) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG13.SA.V1 (N= 2,600,128) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG14.SA.V1 (N= 2,599,234) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG15.SA.V1 (N= 2,601,749) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG16.SA.V1 (N= 2,608,965) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG17.SA.V1 (N= 2,599,885) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG18.SA.V1 (N= 2,606,886) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG19.SA.V1 (N= 2,620,806) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RLONG20.SA.V1 (N= 432,714) (SAS file format)

OUTPUT(S):
- All variables, sorted by SSN and ascending RCD_EST

OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P1.SA.V1 (N= 49,922,873) (SAS file format)

- 2 variables, sorted by SSN and descending RCD_EST, latest RCD_EST for each SSN kept

OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P1ST.SA.V1 (N= 49,920,557) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSR2P1

APPROXIMATE PROCESSING TIME: 6 HR 48 MIN 10 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
DAF22 - 49,922,873 – 1.88% change

SSR2P1ST Output
DAF19 – 46,790,634
DAF20 – 47,886,160 – 2.34% change
DAF21 - 48,997,496 – 2.32% change
DAF22 - 49,920,557 – 1.88% change

Ratio of SSR2PIST to SSR2P1
DAF19 – 99.995%
DAF20 – 99.995%
DAF21 – 99.995%
DAF22 – 99.995%

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 Longitudtional file (from Step 11) to keep one record at the SSN-RCD_EST level
- Back out carried forward earnings

DATE EXECUTED: 05/16/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSRERNCR)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREARN1.V1 (N = 222,168,684) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P1ST.SA.V1 (N= 49,920,557) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREARN.SA.V1 (N=12,491,684) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.SSRERNCR

APPROXIMATE PROCESSING TIME: 16 HR 22 MIN 43 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)
  DAF22: 12,491,684 (2.87% 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: 05/17/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(JCLSSR22)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.SSR.PRDLIB(SSR2P2)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P1.SA.V1 (N=49,922,873) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSREARN.SA.V1 (N=12,491,684) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P2.SA.V1 (N=8,933,263) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF21.SSR.SSR2P2

APPROXIMATE PROCESSING TIME: 26 HR 54 MIN 49 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

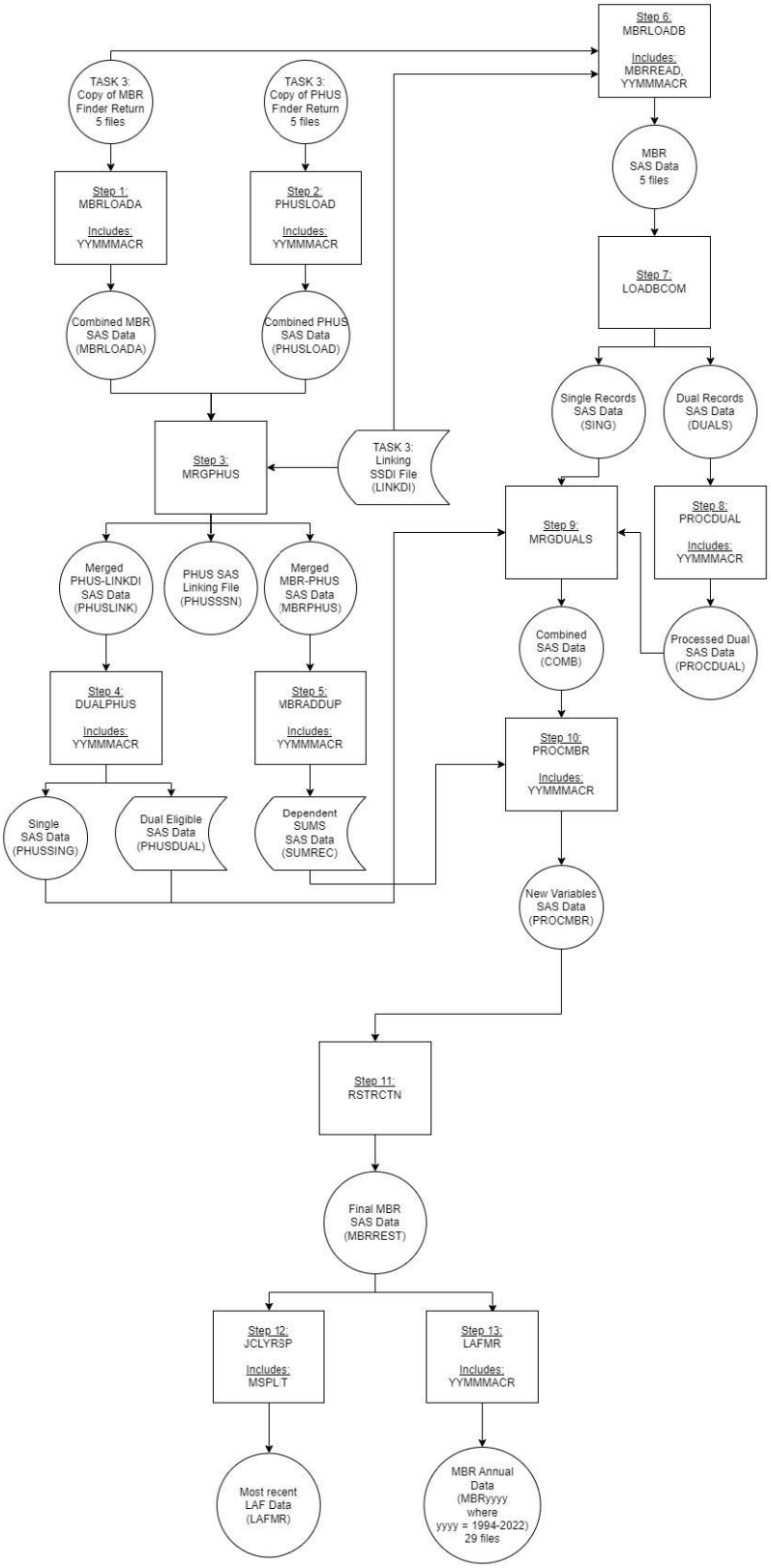
  SSR2P2 Output
  DAF19: 8,242,035
  DAF20: 8,474,174 (2.82% change)
  DAF21: 8,697,363 (2.78% change)
  DAF22: 8,933,263 (2.71% change)

- 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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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.
5. Process the dual eligible records and output one summary record.
6. Recombine the data, merge on the dependent amounts, and output complete MBR file.
7. Create the data with the most recent LAF variable

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: 04/21/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MBRLOADA)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F1.R230309 (OBS = 9,154,394) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F2.R230309 (OBS = 9,152,406) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F3.R230309 (OBS = 9,149,780) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F4.R230309 (OBS = 9,153,318) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F5.R230309 (OBS = 9,152,018) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBRLOADA.SA.V1 (OBS= 45,761,916) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.MBRLOADA

APPROXIMATE PROCESSING TIME: 05 HR 5 MIN 27 SEC

QA:

- Compare the MBR layout from current DAF to previous DAF. Make updates to the program accordingly.
- Compare rates of BIC = A from current DAF to previous DAF, which should be similar:

DAF year	% BIC = A
DAF21	53.4%
DAF22	53.47%

- 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	DAF22
MBR	42,858,047	43,939,548	44,881,905	45,761,916

	Rate		
	19 VS 20	20 VS 21	21 VS 22
MBR	2.52%	2.14%	2.00%

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: 04/21/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(PHUSLOAD)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F1.R230309 (OBS = 9,154,394) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F2.R230309 (OBS = 9,152,406) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F3.R230309 (OBS = 9,149,780) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F4.R230309 (OBS = 9,153,318) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.PHUS.F5.R230309 (OBS = 9,152,018) (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSLOAD.SA.V1 (OBS= 45,761,916) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PHUSLOAD

APPROXIMATE PROCESSING TIME: 11 HR 36 MIN 13 SEC

QA:

- Compare the PHUS layout from current DAF to previous DAF. Make updates to the program accordingly.
- Compare rates of BIC = A from current DAF to previous DAF, which should be similar:

DAF year	% BIC = A
DAF21	53.4%
DAF22	53.47%

- 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	DAF22
PHUS	42,858,047	43,939,548	44,881,905	45,761,916

	Rate		
	19 VS 20	20 VS 21	21 VS 22
PHUS	2.52%	2.14%	2.00%

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: 04/25/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MRGPHUS)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBRLOADA.SA.V1 (OBS=45,761,916) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSLOAD.SA.V1 (OBS=45,761,916) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.LINKDI.SA.V1 (OBS=25,903,511) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBRPHUS.SA.V1 (OBS=45,761,916) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSSSN.SA.V1 (OBS=45,230,352) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSLINK.SA.V1 (OBS=25,612,977) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.MRGPHUS

APPROXIMATE PROCESSING TIME: 19 HR 18 MIN 33 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	DAF22
MRGPHUS	42,858,047	43,939,548	44,881,905	45,761,916
PHUSSSN	42,329,352	43,409,505	44,350,781	45,230,352
LINKPHUS	23,906,537	24,545,381	25,093,449	25,612,977

	Rate		
	19 VS 20	20 VS 21	21 VS 22
MRGPHUS	2.52%	2.14%	1.9%
PHUSSSN	2.55%	2.17%	1.98%
LINKPHUS	2.67%	2.23%	2.07%

Step 4

PURPOSE:

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

DATE EXECUTED: 04/25/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(DUALPHUS)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSLINK.SA.V1 (OBS=25,612,977) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSSING.SA.V1(OBS= 24,405,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSDUAL.SA.V1(OBS= 588,648) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.DUALPHUS

APPROXIMATE PROCESSING TIME: 1 HR 46 MIN 16 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	DAF22
PHUSSING	22,756,059	23,369,715	23,903,382	24,405,441
PHUSDUAL	561,466	573,504	580,298	588,648

	Rate		
	19 VS 20	20 VS 21	21 VS 22
PHUSSING	2.7%	2.28%	2.1%
PHUSDUAL	2.14%	1.18%	1.43%

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: 04/25/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MBRADDUP)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBRPHUS.SA.V1 (OBS= 45,761,916) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.SUMREC.SA.V1 (OBS= 24,469,824) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.MBRADDUP

APPROXIMATE PROCESSING TIME: 3 HR 15 MIN 15 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	DAF22
SUMREC	22,817,005	23,433,393	23,968,223	24,469,824

	Rate		
	19 VS 20	20 VS 21	21 VS 22
SUMREC	2.7%	2.28%	2.09%

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: 05/02/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MBRLOADB)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MBRREAD)
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F1.R230309 (OBS = 9,154,394) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F2.R230309 (OBS = 9,152,406) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F3.R230309 (OBS = 9,149,780) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F4.R230309 (OBS = 9,153,318) (Flat file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.MBR.F5.R230309 (OBS = 9,152,018) (Flat file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.LINKDI.SA.V1 (OBS= 25,903,511) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR1.SA.V1 (OBS= 5,124,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR2.SA.V1 (OBS= 5,122,216) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR3.SA.V1 (OBS= 5,122,719) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR4.SA.V1 (OBS= 5,121,954) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR5.SA.V1 (OBS= 5,121,647) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.MBRLOADB

APPROXIMATE PROCESSING TIME: 40 HR 02 MIN 46 SEC

QA:

- Compare the MBR layout from current DAF to previous DAF. Make updates to the program accordingly.
- 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	DAF22
MBR1	4,783,756	4,911,602	5,020,769	5,124,441
MBR2	4,780,230	4,908,282	5,018,253	5,122,216
MBR3	4,782,071	4,909,407	5,018,942	5,122,719
MBR4	4,780,411	4,908,143	5,018,074	5,121,954
MBR5	4,780,069	4,907,947	5,017,411	5,121,647

	Rate		
	19 VS 20	20 VS 21	21 VS 22
MBR1	2.67%	2.22%	2.06%
MBR2	2.68%	2.24%	2.07%
MBR3	2.66%	2.23%	2.07%
MBR4	2.67%	2.24%	2.07%
MBR5	2.68%	2.23%	2.08%

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: 05/04/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(LOADBCOM)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR1.SA.V1 (OBS= 5,124,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR2.SA.V1 (OBS= 5,122,216) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR3.SA.V1 (OBS= 5,122,719) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR4.SA.V1 (OBS= 5,121,954) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR5.SA.V1 (OBS= 5,121,647) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.SING.SA.V1 (OBS= 24,405,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.DUALS.SA.V1 (OBS= 1,207,536) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.LOADBCOM

APPROXIMATE PROCESSING TIME: 5 HR 29 MIN 59 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	DAF22
SING	22,756,059	23,369,715	23,903,382	24,405,441
DUALS	1,150,478	1,175,666	1,190,067	1,207,536

	Rate		
	19 VS 20	20 VS 21	21 VS 22
SING	2.7%	2.28%	2.1%
DUALS	2.19%	1.22%	1.47%

Step 8

PURPOSE:

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

DATE EXECUTED: 05/05/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(PROCDUAL)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.DUALS.SA.V1 (OBS= 1,193,512) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PROCDUAL.SA.V1 (OBS= 588,572) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PROCDUAL

APPROXIMATE PROCESSING TIME: 00 HR 45 MIN 22 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

	DAF17	DAF18	DAF19	DAF20	DAF21	DAF22
PROCDUAL	530,755	546,617	561,392	573,429	580,222	588,572

	Rate				
	17 VS 18	18 VS 19	19 VS 20	20 VS 21	21 VS 22
PROCDUAL	2.99%	2.70%	2.14%	1.18%	1.44%

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: 05/05/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(MRGDUALS)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.SING.SA.V1 (OBS= 24,405,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSSING.SA.V1(OBS= 24,405,441) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PHUSDUAL.SA.V1(OBS= 588,648) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.PROCDUAL.SA.V1 (OBS= 588,572) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.COMB.SA.V1(OBS= 24,994,013) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.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	DAF22
MBR(COMB)	23,317,451	23,943,144	24,483,604	24,994,013

	Rate		
	19 VS 20	20 VS 21	21 VS 22
MBR(COMB)	2.7%	2.26%	2.08%

Step 10

PURPOSE:

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

DATE EXECUTED: 05/24/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(PROCMBR)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.COMB.SA.V1(OBS= 24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22.SUMREC.SA.V1 (OBS= 24,469,824) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PROCMBR.SA.V1(OBS= 24,994,013) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PROCMBR

APPROXIMATE PROCESSING TIME: 16 HR 38 MIN 10 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	DAF22
PROCMBR	23,317,451	23,943,144	24,483,604	24,994,013

	Rate		
	19 VS 20	20 VS 21	21 VS 22
PROCMBR	2.68%	2.26%	2.08%

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: 05/25/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(RSTRCTN)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.PROCMBR.SA.V1 (OBS=24,994,013) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (OBS=24,994,013) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.RSTRCTN

APPROXIMATE PROCESSING TIME: 10 HR 39 MIN 54 SEC

QA:

- Get maximum number of occurrence value (&OLDREST.) from previous DAF program/log (&REST.), and confirm that it has remained the same.
- Get number of occurrence for PIA, PIED, IME and PIARCE from the current DAF year file layout, and confirm that it has remained the same between the current DAF year and the previous DAF year.
- 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: 05/25/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(JCLYRSP)

INCLUDED SAS PROGRAM(S): OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(MSPLIT)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (OBS=24,994,013) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRyyyy.SA.V1 (OBS=24,994,013
WHERE yyyy = 1994-current DAF year) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.JCLYRSP

APPROXIMATE PROCESSING TIME: 11 HR 30 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: 05/26/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.PRDLIB(LAFMR)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (OBS=24,994,013) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.LAFMR.SA.V1 (OBS=24,994,013) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.MBR.LAFMR

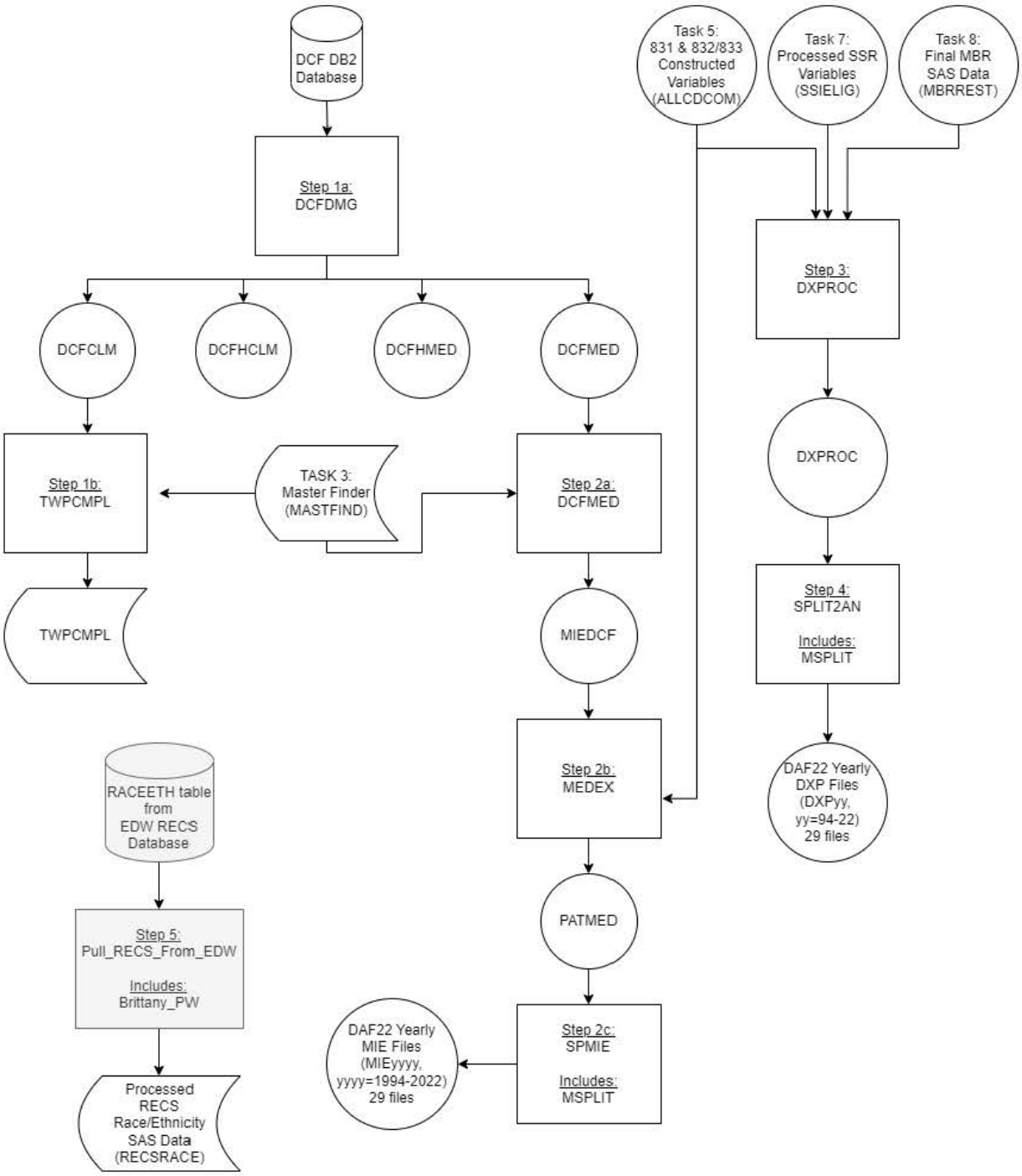
APPROXIMATE PROCESSING TIME: 3 HR 16 MIN 16 SEC

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
SSA Contact Staff: NAME: Christopher D. Earles PHONE: (410) 966-0864 EMAIL: Christopher.D.Earles@ssa.gov

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.

Step 1a

PURPOSE:
Create DCF Medical Table and DCF Claim Table

DATE EXECUTED: 04/28/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(DCFDMG)

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

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFCLM.SA.V1 (N = 138,053,321) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFHCLM.SA.V1 (N = 150,730,377) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFMED.SA.V1 (N= 116,526,059) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFHMED.SA.V1 (N = 34,343,800**)** (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.DCFDMG

APPROXIMATE PROCESSING TIME: 1 HR 36 MIN 25 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	DAF22
DCFCLM	129,534,875	132,714,277	135,115,816	138,053,321
DCFHCLM	120,646,970	132,077,893	140,385,292	150,730,377
DCFMED	108,335,350	111,555,929	113,673,303	116,526,059
DCFHMED	28,076,904	30,201,263	31,857,798	34,343,800

	Rate		
	19 VS 20	20 VS 21	21 VS 22
DCFCLM	2.45%	1.81%	2.17%
DCFHCLM	9.47%	6.29%	7.37%
DCFMED	2.97%	1.90%	2.51%
DCFHMED	7.57%	5.48%	7.80%

Step 1b

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

DATE EXECUTED: 05/22/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(TWPCMPL)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFCLM.SA.V1 (N= 2,900,088 – read where TWP_CMPL_MDT NOT = .) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.SA.V1(N= 38,239,513) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.TWPCMPL.SA.V1 (N= 2,511,641) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DA22.DEMO.TWPCMPL

APPROXIMATE PROCESSING TIME: 0 HR 11 MIN 22 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%
DAF22	2,511,641	3.78%

Step 2a

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

DATE EXECUTED: 06/15/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(DCFMED)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.SA.V1(N= 38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFMED.SA.V1
(N= 889,367– read where BLND_ONST_DT > .Z and
N= 54,640,235 where LU_PGM_NM NE 'CDCNVCLM' AND CID = '00' AND MED_STDT NE .) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIEDCF.SA.V1 (N=38,239,513) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.DCFMED

APPROXIMATE PROCESSING TIME: 1 HR 38 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 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%
DAF22	528,412	2.77%

- 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%
DAF22	38,239,513	1.91%

- 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: 06/15/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(MEDEX)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIEDCF.SA.V1 (N= 38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.ALLCDCOM.SA.V1 (N= 36,558,377) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.PATMED.SA.V1 (N= 38,239,513) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.MEDEX

APPROXIMATE PROCESSING TIME: 1 HR 52 MIN 20 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: 06/15/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(SPMIE)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(MSPLIT)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.PATMED.SA.V1 (N= 38,239,513) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIExxxx.SA.V1 (N= 38,239,513)
WHERE xxxx=1994-2022 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.SPMIE

APPROXIMATE PROCESSING TIME: 00 HR 29 MIN 39 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: 06/16/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(DXPROC)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.ALLCDCOM.SA.V1 (N= 36,558,377) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (N= 24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N= 21,920,370) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.DXPROC.SA.V1 (N= 38,210,388) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.DXPROC

APPROXIMATE PROCESSING TIME: 09 HR 27 MIN 41 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%
DAF22	38,210,388	1.91%

Step 4

PURPOSE:
Split diagnosis data into yearly files.

DATE EXECUTED: 06/19/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.PRDLIB(SPLIT2AN)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(MSPLIT)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.DXPROC.SA.V1 (N= 38,210,388) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22.DXPYxx.SA.V1 (N= 38,210,388) WHERE xx=94-22 (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.SPLIT2AN

APPROXIMATE PROCESSING TIME: 3 HR 45 MIN 36 SEC

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

Step 5

PURPOSE:
Pull the RECS Race Data from the EDW Tables, categorize benes into a single race category, and upload final data to the mainframe.

DATE EXECUTED: 06/20/2023

MAIN PROGRAM:
M:\DAF22\TASK 09 DMG Pre-Processing\Programs\Pull_RECS_From_EDW.sas

INCLUDED SAS PROGRAM(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\Team\P225802\Brittany_PW.sas

INPUT(S):
MRECS.RACEETHN table available on the EDW (N = 127,716,327) (Database Table Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.RACE.SA.V1 (N= 116,037,427) (SAS File Format)

LOG:
M:\DAF22\TASK 09 DMG Pre-Processing\Programs\Pull_RECS_From_EDW.sas

APPROXIMATE PROCESSING TIME: 00 HR 14 MIN 00 SEC

QA:

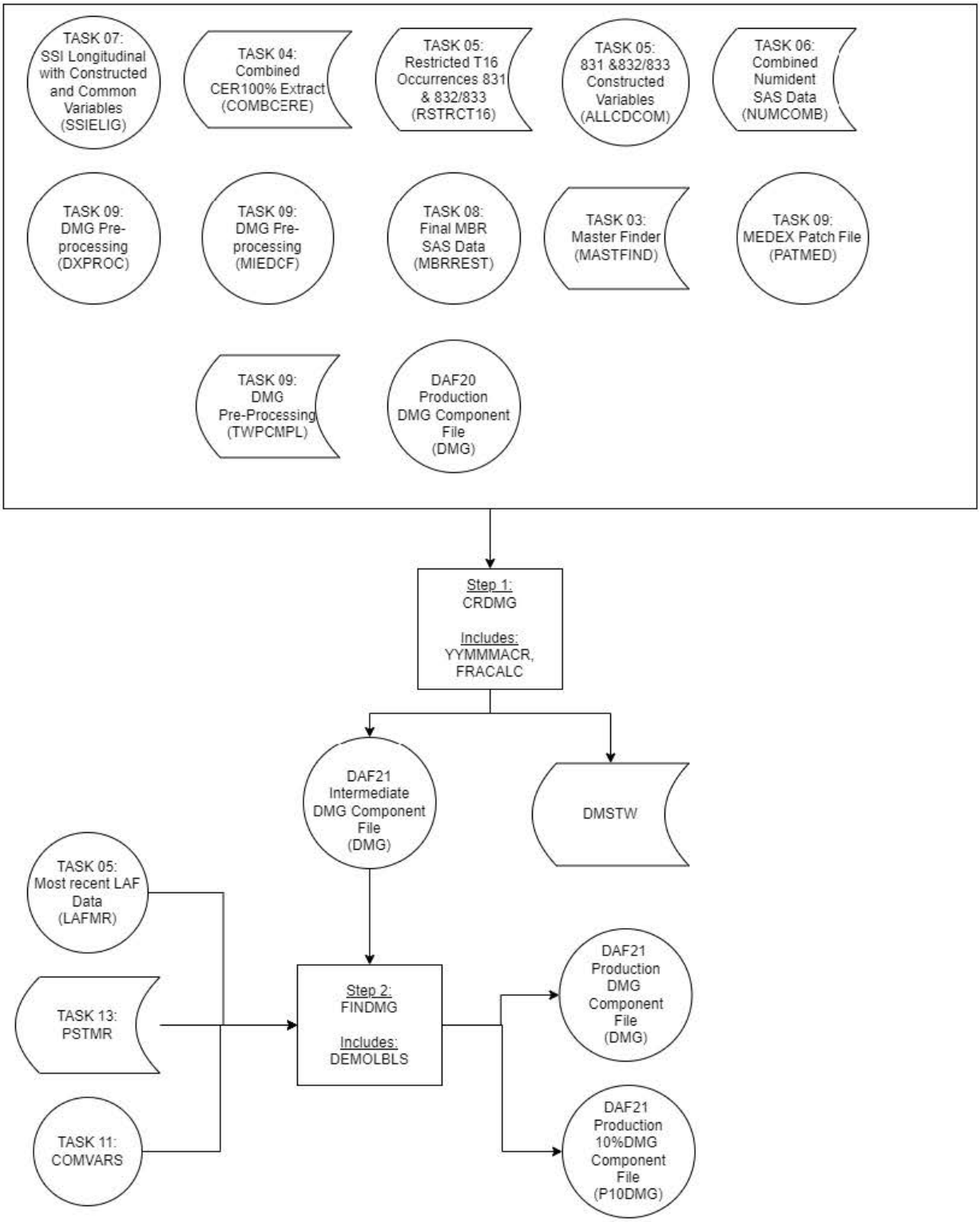
- Manual search in log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- QA Frequencies printed to RECS_RACE_ETH_Checks.xlsx
- Confirm trend in input to output observations looks reasonable

	# Input Records	# Output Records	% Output to Input
DAF22	127,716,327	116,037,427	90.85%

Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 7/26/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.DEMO.PRDLIB(CRDMG)

INCLUDED SAS PROGRAMS:
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (YYMMMACR)
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB (FRACALC)

INPUT(S):
OPDR.TG.PRD.ETTW.DAF22T.DMG.SA.V1(N= 37,486,887) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N= 21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (N= 24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.NUMCOMB.SA.V1 (N= 38,235,969) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.ALLCDCOM.SA.V1 (N= 36,558,377) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.COMBCERE.SA.V1 (N= 7,281,594) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22.RSTRCT16.SA.V1 (N= 23,822,817) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.SA.V1 (N= 38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.TWPCMPL.SA.V1 (N= 2,511,641) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIEDCF.SA.V1 (N= 38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DXPROC.SA.V1 (N= 38,210,388) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.PATMED.SA.V1 (N= 38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22.DEMO.RACE.SA.V1(N= 109,926,105) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22I.DMG.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.DEMO.CRDMG

APPROXIMATE PROCESSING TIME: 14 hours 58 minutes 30 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%
DAF22	38,238,140	1.9%

- 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

Step 2

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

DATE EXECUTED: 01/24/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.DEMO.PRDLIB(FINDMG)

INCLUDED SAS PROGRAMS:
OPDR.TG.PRD.ETTW.#3590.DAF22.DEMO.PRDLIB(DEMOLBLS)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22I.DMG.SA.V1 (N =38,202,693 where DOBBEST>=1996) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N=38,218,061) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22I.STATEMR.SA.V1 (N=38,202,693) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.LAFMR.SA.V1 (N=24,994,013) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.DMG (N= 38,202,693) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMGCON.SA.V1 (N= 1,503) (SAS file format) exists
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10DMG (N= 3,816,476) (SAS file format) exists
OPDR.TG.PRD.ETTW.#3590.DAF22P.P10DCON.SA.V1 (N= 1,503) (SAS file format) exists

LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.DEMO.FINDMG

APPROXIMATE PROCESSING TIME: 03 hours 26 minutes 29 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

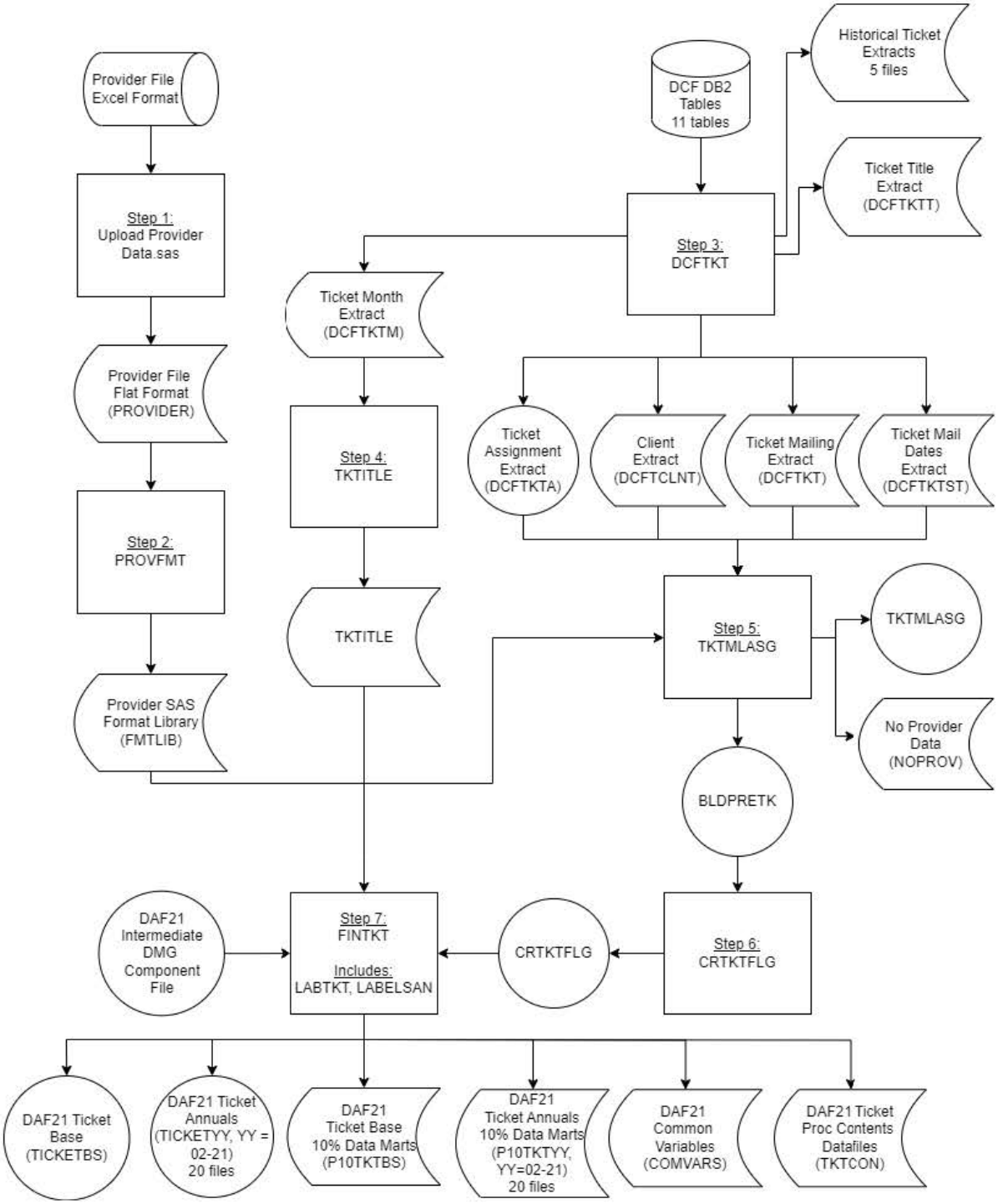
	DAF19	DAF20	DAF21	DAF22	19 VS 20	20 VS 21	21 VS 22
FINDMG	35,850,604	36,726,983	37,486,887	38,202,693	2.44%	2.07%	1.87%

- 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: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@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: 06/12/2023

MAIN PROGRAM:
M:\DAF22\TASK 11 Create Ticket Component\Programs\Upload Provider Data.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 11 Create Ticket Component\Provider File\EN Provider File - DAF (6-8-23).xlsx (N = 3,740) (Excel File Format)

OUTPUT(S):
M:\DAF22\TASK 11 Create Ticket Component\Programs\provider.txt (N = 3,052) (Flat File Format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.PROVIDER.FL.V1 (N= 3,052) (Flat File Format)

LOG:
M:\DAF22\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
DAF22	3,740	3,052

Step 2

PURPOSE: Create format for provider types.

DATE EXECUTED: 06/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(PROVFMT)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.PROVIDER.FL.V1 (N=3,052) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.TKT.FMTLIB (N=3,052) (SAS Format Library)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.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: 05/31/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(DCFTKT)

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.#5413.DAF22P.DCFTKTA.SA.V1 (N= 2,019,608) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFHTKTA.SA.V1 (N= 3,938,119) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKT.SA.V1 (N= 29,456,390) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFHTKT.SA.V1 (N= 37,575,023) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTT.SA.V1 (N= 34,675,008) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFHTKTT.SA.V1 (N= 21,015,253) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTM.SA.V1 (N= 90,564,469) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFHTKTM.SA.V1 (N= 24,168,480) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFCLNT.SA.V1 (N= 70,516,804) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFHCLNT.SA.V1 (N= 108,515,628) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTST.SA.V1 (N= 6,722,245) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.DCFTKT

APPROXIMATE PROCESSING TIME: 02 hours 08 minutes 42 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

	DAF20	DAF21	DAF22	% increase DAF20 to DAF21	% increase DAF21 to DAF22
TKTASGN	1,922,554	2,019,608	2,123,363	5.05	5.14
HTKTASGN	3,703,740	3,938,119	4,148,505	6.33	5.34
TKT	28,756,287	29,456,390	30,150,533	2.43	2.36
HTKT	35,850,227	37,575,023	39,559,046	4.81	5.28
TKTTITLE	33,879,683	34,675,008	35,461,545	2.35	2.27
HTKTTITL	19,819,298	21,015,253	22,422,974	6.03	6.7
TKTMNTH	86,673,529	90,564,469	94,782,258	4.49	4.66
HTKTMNTH	22,786,853	24,168,480	25,548,192	6.06	5.71
CLNT	69,383,168	70,516,804	71,718,582	1.63	1.7
HCLNT	100,818,635	108,515,628	115,877,702	7.63	6.78
TKTSENT	6,124,561	6,722,245	7,308,167	9.76	8.72

Step 4

PURPOSE: Build ticket title data.

DATE EXECUTED: 06/13/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(TKTTITLE)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTM.SA.V1 where SSACT_PRTCPN_CD != '0' (N= 76,269,685) (SAS File Format)

OUTPUT(S)
OPDR.TG.PRD.ETTW.#6502.DAF22P.TKTTITLE.SA.V1 (N= 29,076,339) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.TKTTITLE

APPROXIMATE PROCESSING TIME: 01 hours 01 minutes 24 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

	DAF20	DAF21	DAF22	% increase DAF20 to DAF21	% increase DAF21 to DAF22
DCFTKTM (where SSACT_PRTCPN_CD != ‘0’)	70,264,939	73,150,138	76,269,685	4.11	4.26
TKTTITLE	27,784,173	28,434,762	29,076,339	2.34	2.26

- 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
DAF22	76,269,685	76,196,180	73,505

Step 5

PURPOSE: Build ticket assignment data.

DATE EXECUTED: 06/22/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(TKTMLASG)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKT.SA.V1 (N= 30,150,553) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTA.SA.V1 (N= 2,123,363) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFCLNT.SA.V1 (N= 71,610,421) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.DCFTKTST.SA.V1 (N=7,297,851) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.TKT.FMTLIB (N=3,052) (SAS Format Library)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.TKTMLASG.SA.V1 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22.NOPROV.SA.V1 (N=42) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.BLDPRETK.SA.V1 (N= 29,215,980 (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.TKTMLASG

APPROXIMATE PROCESSING TIME: 01 hours 56 minutes 47 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.

	DAF20	DAF21	DAF22	% increase from DAF20	% increase from DAF21
TKTMLASG	27,915,676	28,570,366	29,215,980	2.35	2.25
NOPROV	42	42	42	0.00	0.00
BLDPRETK	27,915,676	28,570,366	29,215,980	2.35	2.25

Step 6

PURPOSE: Create ticket flag variables.

DATE EXECUTED: 07/20/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(CRTKTFLG)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.BLDPRETK.SA.V1 (N= 29,215,980) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.CRTKTFLG.SA.V1 (N= 29,215,980) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.CRTKTFLG

APPROXIMATE PROCESSING TIME: 13 hours 46 minutes 44 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.

	DAF20	DAF21	DAF22	% increase from DAF20	% increase from DAF21	% increase from DAF22
CRTKTFLG	27,915,676	28,570,366	29,215,980	2.58	2.35	2.25

Step 7

PURPOSE: Create and finalize ticket base and ticket annuals.

DATE EXECUTED: 09/5/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(FINTKT)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(LABTKT)
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.PRDLIB(LABELSAN)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.CRTKTFLG.SA.V1 (N=29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.TKTTITLE.SA.V1 (N= 29,076,339) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF22I.DMG.SA.V1(N= 38,218,061) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N= 38,218,061) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TKTCON (N=N/A) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKETBS (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET02 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET03 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET04 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET05 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET06 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET07 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET08 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET09 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET10 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET11 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET12 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET13 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET14 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET15 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET16 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET17 (N= 29,215,980) (SAS File Format)

OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET18 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET19 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET20 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET21 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKET22 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKTBS (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT02 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT03 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT04 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT05 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT06 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT07 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT08 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT09 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT10 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT11 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT12 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT13 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT14 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT15 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT16 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT17 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT18 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT19 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT20 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT21 (N=2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKT22 (N=2,918,428) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.TKT.FINTKT

APPROXIMATE PROCESSING TIME: 24 hours 28 minutes 02 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%
DAF22	29,215,980	2.3%

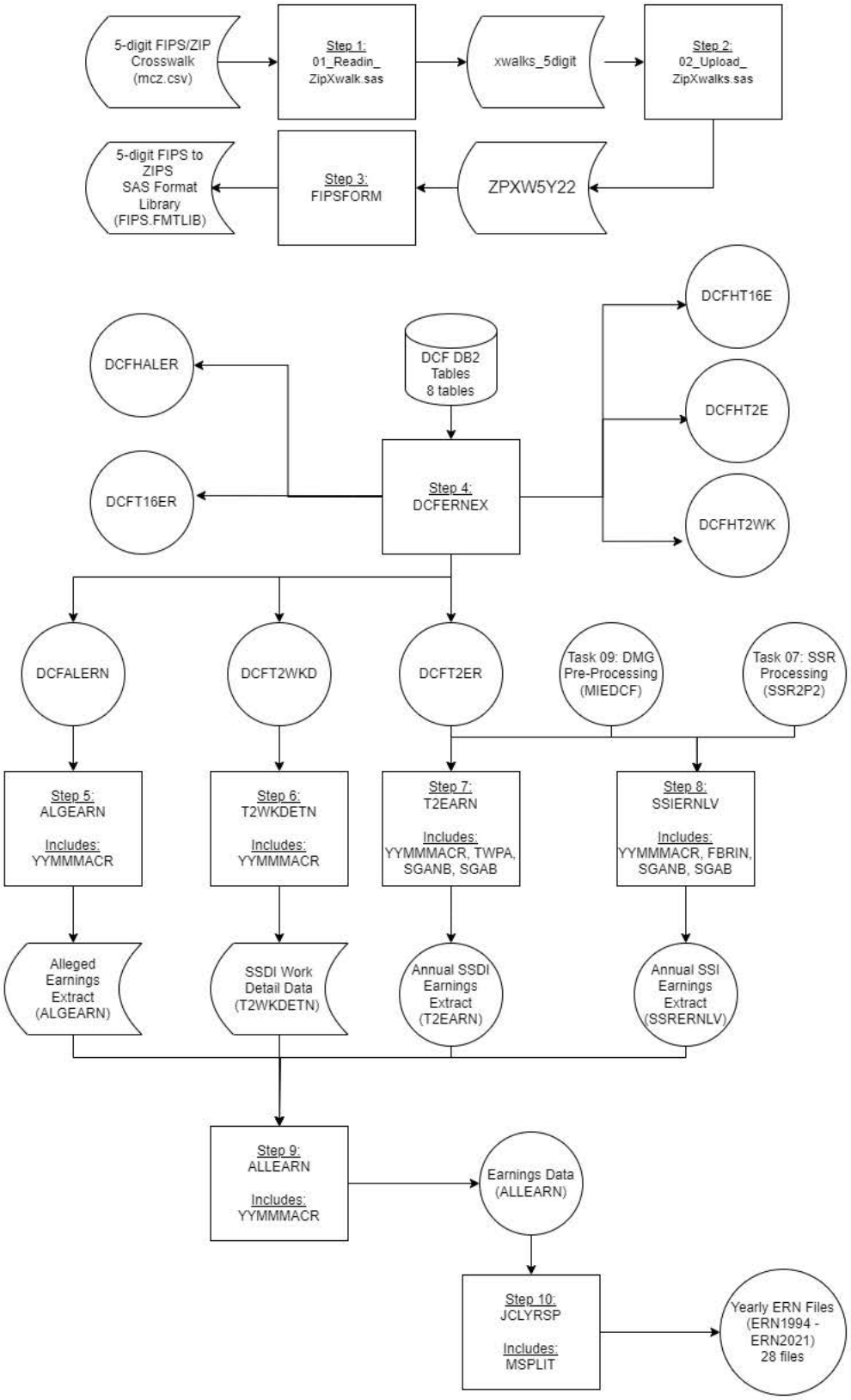
- The COMVARS output file should have the same # of obs as the Intermediate DMG Input file
- All DAF Ticket Base and Annuals Files should have the same # of obs
- All DAF 10% Ticket Files should have the same # of obs and be roughly 10% of the # of obs in the Base/Annuals Files
- Contents comparison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

Data Documentation: N/A

SSA Contact Staff:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 12. DAF Annual pre-processing



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

Summary: The purpose of this task is to:

1. Create Zip-to-FIPS Crosswalks
2. Extract earnings data from DCF tables and reformat the data into monthly (yymm) variables.
3. Merge with SSI earnings data sourced from SSR tables to create a dataset with all earnings data

Step 1

PURPOSE: SAS Load Zip to FIPS crosswalk files

DATE EXECUTED: 06/29/2023

MAIN PROGRAM: M:\DAF22\TASK 12 Annuals Pre-Processing\Programs\01_Readin_ZipXwalk.sas

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
M:\DAF22\ZIPS TO FIPS\data\input\mcmax-zips-full.csv
M:\DAF22\ZIPS TO FIPS\data\input\mcz.csv

OUTPUT(S):
M:\DAF22\ZIPS TO FIPS\data\output\xwalk_5digit.sas7bdat
M:\DAF22\ZIPS TO FIPS\data\output\xwalk_9digit.sas7bdat

LOG: M:\DAF22\TASK 12 Annuals Pre-Processing\Programs\01_Readin_ZipXWalk.log

APPROXIMATE PROCESSING TIME: 12 minutes

QA:

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

Step 2

PURPOSE: Upload Zip to FIPS crosswalk files

DATE EXECUTED: 06/29/2023

MAIN PROGRAM: M:\DAF22\TASK 12 Annuals Pre-Processing\Programs\02_Upload_ZipXwalks.sas

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
M:\DAF22\ZIPS TO FIPS\data\output\xwalk_5digit.sas7bdat
M:\DAF22\ZIPS TO FIPS\data\output\xwalk_9digit.sas7bdat

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.ZPXW5Y22.SA.V1
OPDR.TG.PRD.ETTW.$4671.DAF22P.ZPXW9Y22.SA.V1

LOG: M:\DAF22\TASK 12 Annuals Pre-Processing\Programs\02_Upload_ZipXwalks.log

APPROXIMATE PROCESSING TIME: 15 seconds

QA: n/a

Step 3

PURPOSE: Created Zip to FIPS crosswalk SAS Formats

DATE EXECUTED: 06/29/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.PRDLIB(FIPSFORM)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.ZPXW9Y22.SA.V1
OPDR.TG.PRD.ETTW.$4671.DAF22P.ZPXW5Y22.SA.V1

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.FIPS.FMTLIB

LOG: OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.FIPSFORM

APPROXIMATE PROCESSING TIME: 7 SECONDS

QA:

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

Step 4

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

DATE EXECUTED: 06/26/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.PRDLIB(DCFERNEX)

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.$4671.DAF22P.DCFALERN.SA.V1 (N= 770,103) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFHALER.SA.V1 (N= 162,497) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFT16ER.SA.V1 (N= 91,744,229) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFHT16E.SA.V1 (N= 14,785,202) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFT2ER.SA.V1 (N= 179,510,926) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFHT2E.SA.V1 (N= 190,980,572) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFT2WKD.SA.V1 (N= 173,660,921) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFHT2WK.SA.V1 (N= 148,026,019) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.DCFERNEX

APPROXIMATE PROCESSING TIME: 02 hour 21 minutes 31 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%
DAF22	770,103	15.3%

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%
DAF22	162,497	18.1%

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%
DAF22	91,744,229	5.31%

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%
DAF22	14,785,202	4.85%

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%
DAF22	179,510,926	5.26%

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%
DAF22	190,980,572	8.15%

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%
DAF22	173,660,921	5.42%

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%
DAF22	148,026,019	9.95%

Step 5

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: 07/19/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(ALGEARN)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFALERN.SA.V1 (N= 745,466 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.ALGEARN.SA.V1 (N = 74,044) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.ALGEARN

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 17 seconds

- 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%
DAF22	74,044	13.67%

Step 6

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: 07/19/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(T2WKDETN)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFT2WKD.SA.V1 (N= 163,972,961 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.T2WKDETN.SA.V1 (N = 3,908,335) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.T2WKDETN

APPROXIMATE PROCESSING TIME: 03 HR 01 MIN 39 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%
DAF22	3,908,335	3.34%

Step 7

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: 10/02/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(T2EARN)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.DCFT2ER.SA.V1 (N=169,176,568 where '01JAN1994'D <= ERNGS_DT <= '31DEC&ENDYR.'D) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIEDCF.SA.V1 (N=38,239,513) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.T2WKDETN.SA.V1 (N=3,908,335) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.T2EARN.SA.V1 (N = 3,972,405) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.T2EARN

APPROXIMATE PROCESSING TIME: 47 HR 00 MIN 52 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%
DAF22	3,972,405	3.31%

- Check frequencies of DIERNLVLyymm variables

Step 8

PURPOSE:

- Build SSI Earnings Level DAF variable (SSIERNLVL)

DATE EXECUTED: 07/27/2022

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(SSIERNLV)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSR2P2.SA.V1 (N=8,933,263) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIEDCF.SA.V1 (N=38,239,513) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.SSRERNLV.SA.V1 (N = 8,933,263) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.SSIERNLV

APPROXIMATE PROCESSING TIME: 02 HR 41 MIN 38 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%
DAF22	8,933,263	2.71%

- Check frequencies of SSIERNLVLyymm variables

Step 9

PURPOSE:

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

DATE EXECUTED: 10/04/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(ALLEARN)

INCLUDED SAS PROGRAM(S): n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.T2EARN.SA.V1 (N =3,972,405) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.SSRERNLV.SA.V1 (N = 8,933,263) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.ALGEARN.SA.V1 (N = 74,044) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.ALLEARN.SA.V1 (N = 11,532,230) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.ALLEARN

APPROXIMATE PROCESSING TIME: 03 HR 24 MIN 22 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%
DAF22	11,532,230	2.83%

**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 10

PURPOSE:

- Split the output file from Step 7 into yearly versions to facilitate the creations of the Annual Components. This is purely a logistical step.

DATE EXECUTED: 10/05/2023

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.PRDLIB(JCLYRSP)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(MSPLIT)

INPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.ALLEARN.SA.V1 (N = 11,532,230) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6266.DAF22P.ERN*yyyy*.SA.V1 where *yyyy* is 1994-2022 (N = 11,532,230) (SAS format file

LOG:
OPDR.TG.PRD.ETTW.#6266.DAF22.ANN.JCLYRSP

APPROXIMATE PROCESSING TIME: 04 HR 19 MIN 50 SEC

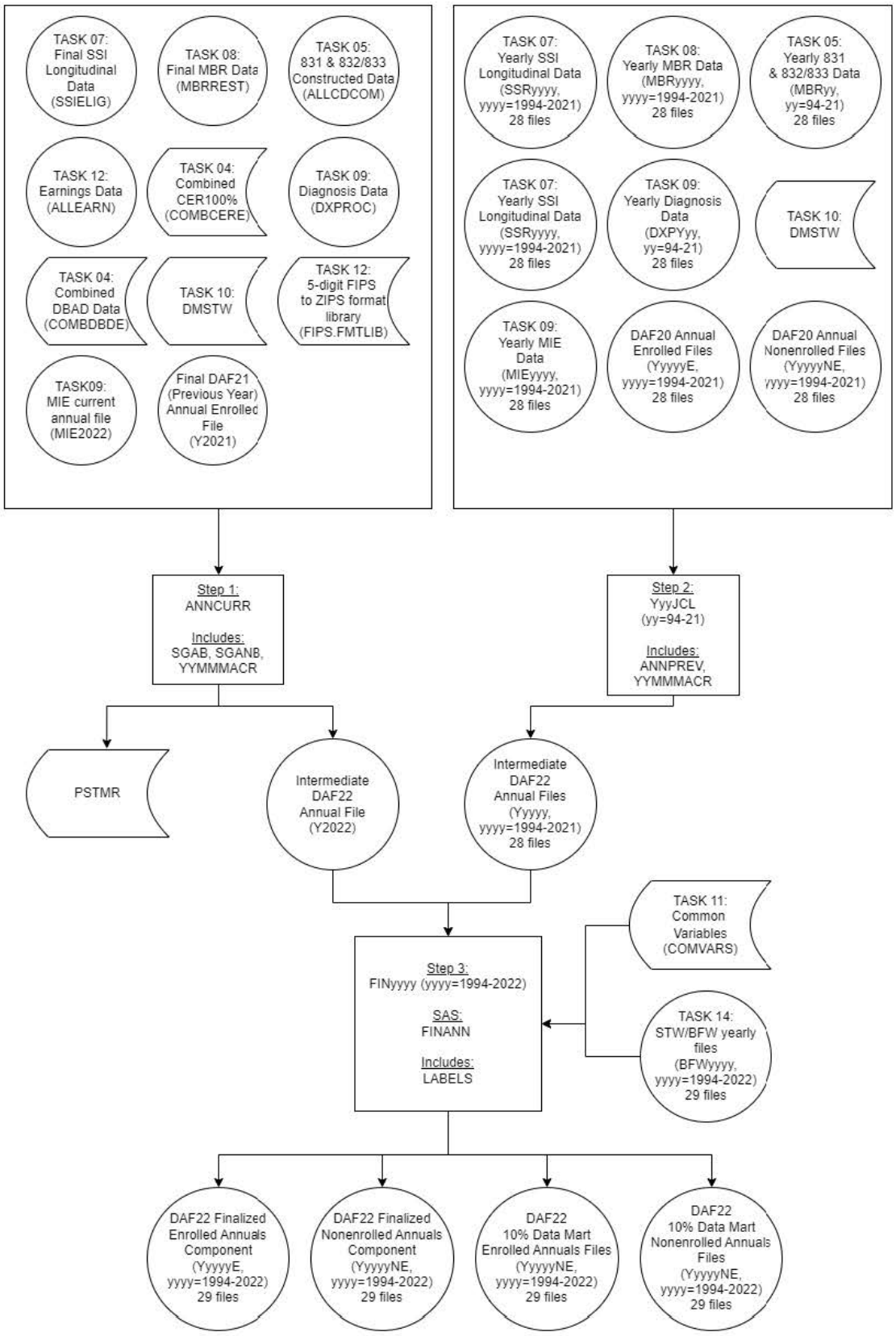
QA:

- 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.

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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 12/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.PRDLIB(ANNCURR)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(YYMMMACR)
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(SGAB)
OPDR.TG.PRD.ETTW.#6266.DAF22.UTILITY.PRDLIB(SGANB)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N=21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (N=24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.ALLCDCOM.SA.V1 (N=36,558,377) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.ALLEARN.SA.V1 (N=11,532,230) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.COMBCERE.SA.V1 (N=11,532,230) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.DXPROC.SA.V1 (N=38,210,388) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.CMBDBDE.SA.V1 (N=9,467,737) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N=38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.Y2021E (N=17,572,446) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.Y2021NE (N=19,929,737) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22.FIPS.FMTLIB (N=n/a) (SAS format library)
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIE2022.SA.V1 (N=38,239,513) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22I.Y2021.SA.V1 (N =) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22I.Y2021CON.SA.V1 (N =) (SAS file format)
OPDR.TG.PRD.ETTW.$4671.DAF22I.PSTMR.SA.V1 (N =) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.ANN.ANNCURR

APPROXIMATE PROCESSING TIME: 20 hours 33 minutes 6 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: 12/08/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.ANN.PRDLIB(YxxJCL)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#5413.DAF21.ANN.PRDLIB(ANNPREV)
OPDR.TG.PRD.ETTW.#6266.DAF21.UTILITY.PRDLIB(YYMMMACR)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSRxxxx.SA.V1 (N = 21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRxxxx.SA.V1 (N =24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.CDCOMxx.SA.V1 (N =36,558,377) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.ERNxxxx.SA.V1 (N =11,532,230) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22.DXPYxx.SA.V1 (N = 38,201,388) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N = 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.YxxxxE (N = varied) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF21P.YxxxxNE (N = varied) (SAS file format)
OPDR.TG.PRD.ETTW.#7429.DAF22P.MIExxxx.SA.V1 (N = 38,239,513) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22I.Yxxxx.SA.V1 (N =38,202,693) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22I.YxxxxCON.SA.V1 (N = n/a) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.ANN.Yyyyy, where yyyy=1994-2022

APPROXIMATE PROCESSING TIME: On average, 8 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 3

PURPOSE:
- Finalize and split annuals files into enrolled and non-enrolled for years 1994-2022.
- Additionally, produce contents for all output datasets.

DATE EXECUTED: 01/24/2025

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.ANN.PRDLIB(FINyyyy), where yyyy = 1994-2022

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#3590.DAF22.ANN.PRDLIB(FINANN)
OPDR.TG.PRD.ETTW.#3590.DAF22.ANN.PRDLIB(LABELS)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22I.Yyyyy.SA.V1, yyyy = 1994 – 2021 (N = 38,202,693) (SAS file format)
For year 2022: OPDR.TG.PRD.ETTW. $4671.DAF22I.Y2022.SA.V1 (N = 38,202,693) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWyyyy.SA.V1, yyyy = 1994 – 2022 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N= 38,218,061) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.YyyyyE, where yyyy = 1994- 2022 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.CANyyE.SA.V1, where yy = 94 – 22 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.Yyyyy.NE, where yyyy = 1994 – 2022 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.CANyyNE.SA.V1, where yy = 94 – 22 (N = n/a) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.YyyyyE, where yyyy = 1994 – 2022 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.YyyyyNE, where yyyy = 1994 – 2022 (N = see below) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.C10ANyy.E.SA.V1, where yy = 94 – 22 (N = n/a) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.ANN.FINyyyy, where yyyy=1994-2022

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

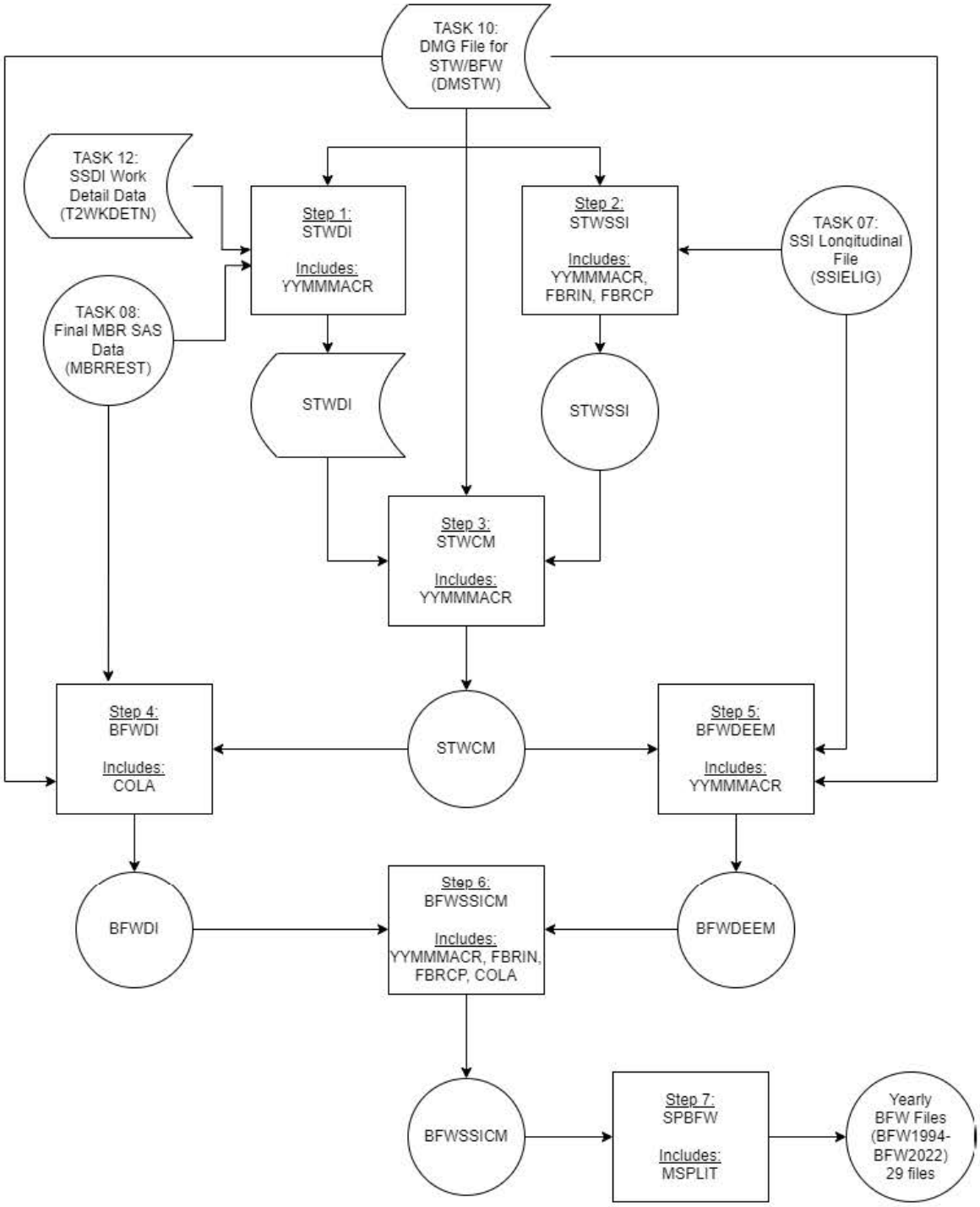
Finalized Annuals Output Observations				
Year	Enrolled	Non-enrolled	Enrolled 10%	Non-enrolled 10%
1994	9,594,676	28,623,385	958,370	2,859,669
1995	10,795,186	27,422,875	1,077,938	2,740,101
1996	11,933,520	26,284,541	1,191,248	2,626,791
1997	12,576,078	25,641,983	1,254,655	2,563,384
1998	13,006,407	25,211,654	1,298,283	2,519,756
1999	13,422,723	2,4795,338	1,339,808	2,478,231
2000	13,858,460	24,359,601	1,383,225	2,434,814
2001	14,357,862	23,860,199	1,433,417	2,384,622
2002	14,996,025	23,222,036	1,497,686	2,320,353
2003	15,578,434	22,639,627	1,556,254	2,261,785
2004	16,106,896	22,111,165	1,608,732	,2209,307
2005	16,625,913	21,592,148	1,660,522	2,157,517
2006	17,107,491	21,110,570	1,708,413	2,109,626
2007	17,575,489	20,642,572	1,755,690	2,062,349
2008	18,106,235	20,111,826	1,808,715	2,009,324
2009	18,746,691	19,471,370	1,872,936	1,945,103
2010	19,258,475	18,959,586	1,923,075	1,894,964
2011	19,708,546	18,509,515	1,969,153	1,848,886
2012	20,049,480	18,168,581	2,003,563	1,814,476
2013	20,201,864	18,016,197	2,018,653	1,799,386
2014	20,214,434	18,003,627	2,020,482	1,797,557
2015	20,170,416	18,047,645	2,015,886	1,802,153
2016	20,045,783	18,172,278	2,003,430	1,814,609
2017	19,838,471	18,379,590	1,982,200	1,835,839
2018	19,553,561	18,664,500	1,953,448	1,864,591
2019	19,218,399	18,999,662	1,919,967	1,898,072
2020	18,754,956	19,463,105	1,873,867	1,944,172
2021	18,068,960	20,149,101	1,805,901	2,012,138
2022	17,248,952	20,969,109	1,724,065	2,093,974

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

SSA Contact Staff:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 09/08/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(STWDI)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (N= 24,994,013) (SAS file format)
OPDR.TG.PRD.ETTW.#6266.DAF22P.T2WKDETN.SA.V1 (N= 3,908,335) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWDI.SA.V1 (N= 24,992,643) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWDIFQ.SA.V1 (N = N/A) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.STWDI

APPROXIMATE PROCESSING TIME: 06 hours 13 minutes 43 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%
DAF22	99.995%

- 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: 09/07/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(STWSSI)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1(N= 21,920,370) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWSSI.SA.V1 (N= 20,122,170) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.STW.STWSSI

APPROXIMATE PROCESSING TIME: 04 hours 54 minutes 12 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: 09/11/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(STWCM)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWSSI.SA.V1 (N= 20,122,170) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWDI.SA.V1 (N= 24,992,643) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWCM.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWCMFQ.SA.V1 (N=N/A) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.STWCM

APPROXIMATE PROCESSING TIME: 05 hours 29 minutes 03 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: 09/12/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(BFWDI)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWCM.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.MBRREST.SA.V1 (N= 24,994,013) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWDI.SA.V1 (N=38,238,140) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.BFWDI

APPROXIMATE PROCESSING TIME: 07 hours 55 minutes 42 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: 09/13/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(BFWDEEM)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.STWCM.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSIELIG.SA.V1 (N= 21,920,370) (SAS file format)
OPDR.TG.PRD.ETTW.# 3590.DAFP22P.DMSTW.SA.V1 (N= 38,238,140) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWDEEM.SA.V1 (N= 38,238,140) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.STW.BFWDEEM

APPROXIMATE PROCESSING TIME: 13 hours 20 minutes 17 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: 01/10/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB (BFWSSICM)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWDEEM.SA.V1 (N= 38,238,140) (SAS file format)
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWDI.SA.V1 (N= 38,238,140) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWSSICM.SA.V1 (N= 38,238,140) (SAS file format)

LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.STW.BFWSSICM

APPROXIMATE PROCESSING TIME: 13 hours 25 minutes 25 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: 01/22/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.PRDLIB(SPBFW)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFWSSICM.SA.V1 (N= 38,238,140) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.BFW*yyyy*.SA.V1 where *yyyy*=1994-current DAF year (N= 38,238,140) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.STW.SPBFW

APPROXIMATE PROCESSING TIME: 14 hours 1 minutes 29 seconds

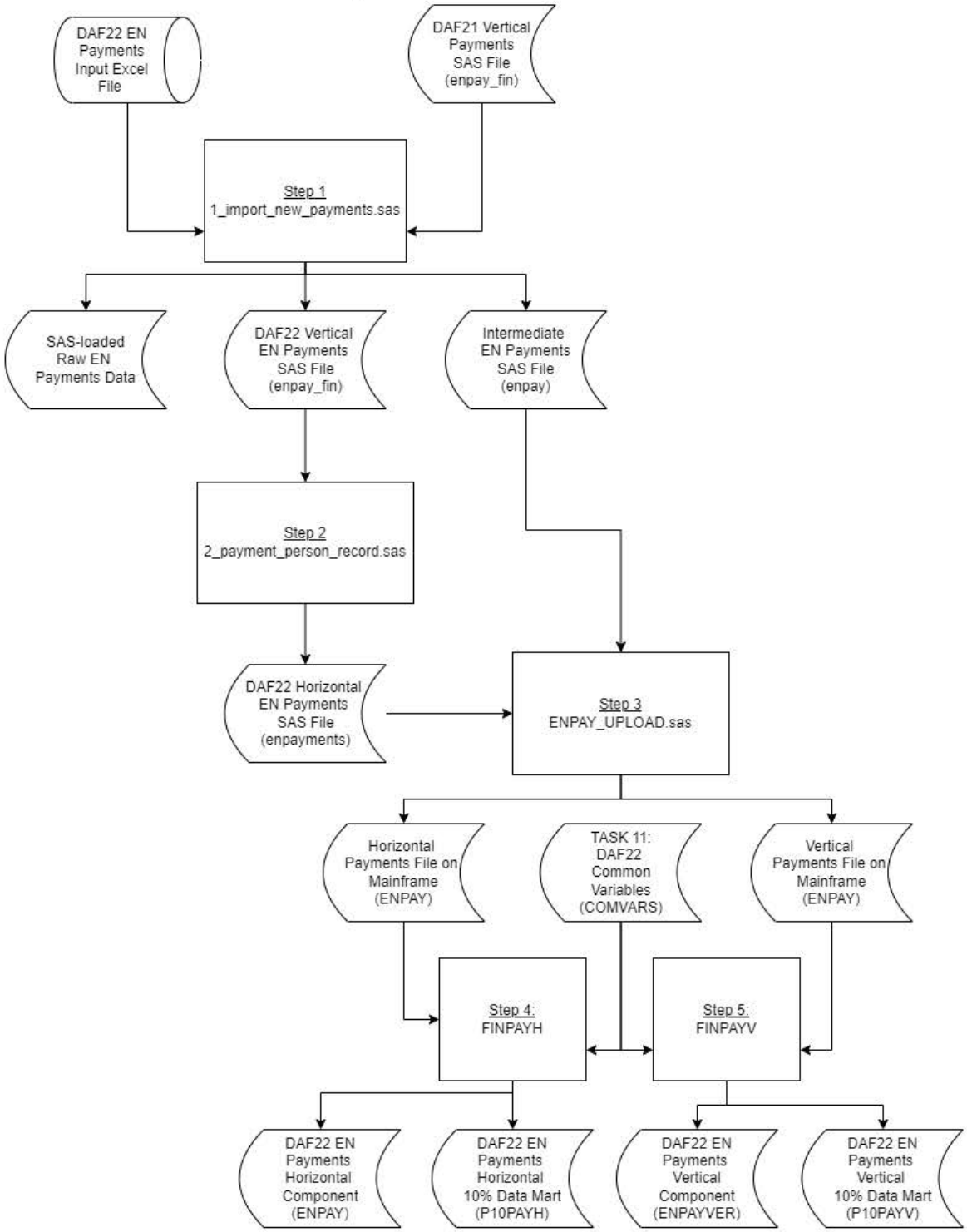
QA:

- 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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 01/10/2024

MAIN PROGRAM:
M:\DAF22\TASK 15 Create EN Payments Component\Programs\1_import_new_payments.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\payment file with PII\EN Cumulative Report July 1 2022 to present (7-12-23).xlsx (N = 206,809 rows) (Excel file format)
M:\DAF22\TASK 15 Create Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,317,980)(SAS file format)

OUTPUT(S):
M:\DAF22\TASK 15 Create EN Payments Component\Data\PII\InputData\enpay.sas7bdat (N = 206,809 – raw data read from Excel prior to processing (SAS file format)
M:\DAF22\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay.sas7bdat (N = 206,772– deduplicated by key variables) (SAS file format)
M:\DAF22\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,517,051) (SAS file format)
M:\DAF22\TASK 15 Create EN Payments Component\Data\Contents\enpayvercon.sas7bdat (N=15) (SAS file format)

LOG:
M:\DAF22\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%)
  - DAF22 input 206,809 rows (combined with DAF21 -- 1,517,051 – increase of 15.10%)

Step 2

PURPOSE:
Create the horizontal file for payments data.

DATE EXECUTED: 01/10/2024

MAIN PROGRAM:
M:\DAF22\TASK 15 Create EN Payments Component\Programs\2_payment_person_record.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 15 Create Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N = 1,517,051) (SAS file format)

OUTPUT(S):
M:\DAF22\TASK 15 Create Payments Component\Data\PII\OutputData\enpayments.sas7bdat (N=130,092)(SAS file format)
M:\DAF22\TASK 15 Create Payments Component\Data\PII\OutputData\enpaycon.sas7bdat (N=1,525)(SAS file format)

LOG:
M:\DAF22\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%)
  - In DAF22 -- 130,092 (increase of 11.65%)

Step 3

PURPOSE:
Upload payments data to mainframe.

DATE EXECUTED: 01/10/2024

MAIN PROGRAM:
M:\DAF22\TASK 15 Create EN Payments Component\Programs\ENPAY_UPLOAD.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 15 Create EN Payments Component\Data\PII\OutputData\enpayments.sas7bdat (N=130,092) (SAS file format)
M:\DAF22\TASK 15 Create EN Payments Component\Data\PII\IntermediateData\enpay_fin.sas7bdat (N =1,517,051) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22I.ENPAY.SA.V1 (N= 130,092) (SAS file format)
OPDR.TG.PRD.ETTW.#6502.DAF22I.ENPAYVER.SA.V1 (N= 1,517,051) (SAS file format)

LOG: (no log was created)
N/A

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: 01/10/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.ENPAY.PRDLIB(FINPAYH)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5582.DAF22I.ENPAY.SA.V1 (N= 130,092) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N= 38,218,061) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.ENPAY (N= 130,092) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10PAYH (N=12,962)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.ENPAY.FINPAYH

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 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
  - 12,962 (10% File) / 130,092 (Full File) = 9.964%

Step 5

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

DATE EXECUTED: 01/10/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.ENPAY.PRDLIB(FINPAYV)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#65413.DAF22P.COMVARS.SA.V1 (N= 38,218,061) (SAS file format)
OPDR.TG.PRD.ETTW.#5582.DAF22I.ENPAYVER.SA.V1 (N= 1,517,051) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.ENPAYVER (N= 1,517,051) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10PAYV (N=151,286) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.ENPAY.FINPAYV

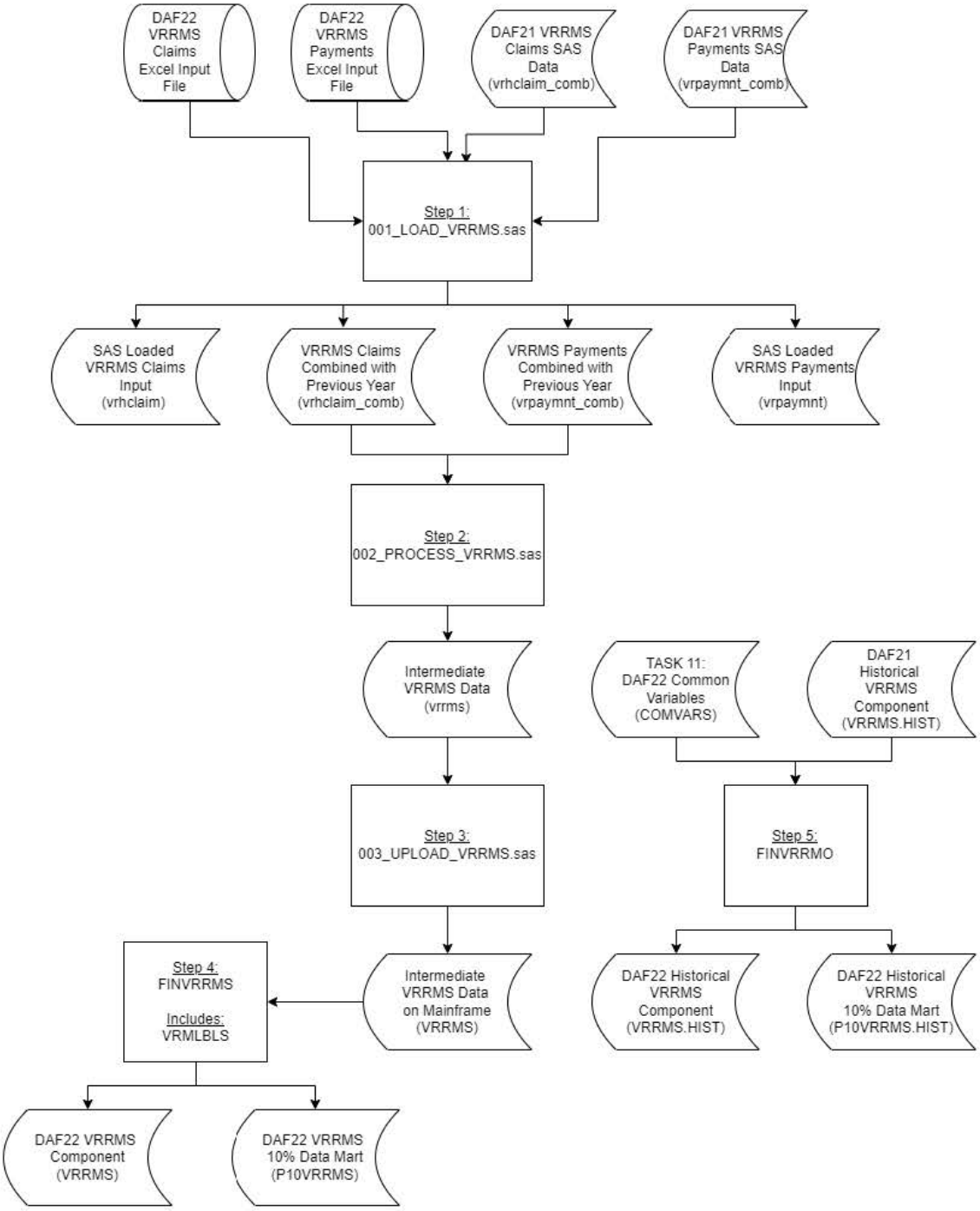
APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 23 seconds

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
  - 151,286 (10% File) / 1,517,051 (Full File) = 9.972%

Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

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: 01/10/2024

MAIN PROGRAM:
M:\DAF22\Task 16 Create VRRMS Component\Version2\Programs\001_LOAD_VRRMS.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\Task 16 Create VRRMS Component\Data\Excel\VRHCLAIM 01012022 to 12312022 - Copy.xlsx (N = 35,675) (Excel file format)
M:\DAF22\Task 16 Create VRRMS Component\Data\Excel\VRPAYMNT - 01012021 to 12312022.xlsx (N = 21,418) (Excel file format)
M:\DAF22\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim_comb.sas7bdat (N=140,199) (SAS file format)
M:\DAF22\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrpaymnt_comb.sas7bdat (N=72,285) (SAS file format)

OUTPUT(S):
M:\DAF22\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim.sas7bdat (N = 35,675) (SAS file format)
M:\DAF22\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrpaymnt.sas7bdat (N = 21,418) (SAS file format)
M:\DAF22\TASK 16 Create VRRMS Component\Version2\Data\SAS\vrhclaim_comb.sas7bdat (N = 175,874) (SAS file format)
M:\DAF22\TASK 16 Create VRRMS Component\ Version2\Data\SAS\vrpaymnt_comb.sas7bdat (N = 93,569) (SAS file format)

LOG:
M:\DAF22\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	Percent Change	# Combined Payments Output	Percent Change
DAF19	121,016		43,222	
DAF20	136,892	13.1	69,971	61.9
DAF21 (version 2)	140,199	2.4	72,285	3.3
DAF22	175,874	25.4	93,569	29.4

Step 2

PURPOSE:
Create dataset based on one record per person.

DATE EXECUTED: 01/10/2023

MAIN PROGRAM:
M:\DAF22\Task 16 Create VRRMS Component\Programs\002_PROCESS_VRRMS.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 16 Create VRRMS Component\Data\SAS\vrhclaim_comb.sas7bdat (N = 175,874) (SAS file format)
M:\DAF22\TASK 16 Create VRRMS Component\Data\SAS\vrpaymnt_comb.sas7bdat (N = 93,569) (SAS file format)

OUTPUT(S):
M:\DAF22\Task 16 Create VRRMS Component\Data\Final\vrrms.sas7bdat (N = 79,459)(SAS file format)

LOG:
M:\DAF22\Task 16 Create VRRMS Component\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	Percent Change
DAF19	35,528	
DAF20	59,802	68.3
DAF21	61,660	3.1
DAF22	79,459	28.9

Step 3

PURPOSE:
Upload VRRMS data onto mainframe.

DATE EXECUTED: 01/10/2023

MAIN PROGRAM:
M:\DAF22\Task 16 Create VRRMS Component\Programs\003_UPLOAD_VRRMS.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\Task 16 Create VRRMS Component\Version2\Data\Final\vrrms.sas7bdat (N = 79459)(SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.SA.V2 (N = 79,459) (SAS file format)

LOG:
No log was created

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: 01/10/2023

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.PRDLIB(FINVRRMS)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.PRDLIB(VRMLBLS)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.SA.V1 (N = 79,459) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N = 38,218,061) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.VRRMS (N = 79,459) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS (N = 7,909) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.VRRMS.FINVRRMS

APPROXIMATE PROCESSING TIME: 00 hours 01 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 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: 01/09/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.PRDLIB(FINVRRMO)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.COMVARS.SA.V1 (N = 38,218,061) (SAS file format)
OPDR.TG.PRD.ETTW.FINAL.DAF21P.VRRMS.HIST (N = 248,321) (SAS file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.VRRMS.HIST (N = 248,321) (SAS file format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS.HIST (N=24,894) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.VRRMS.FINVRRMO

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 15 seconds

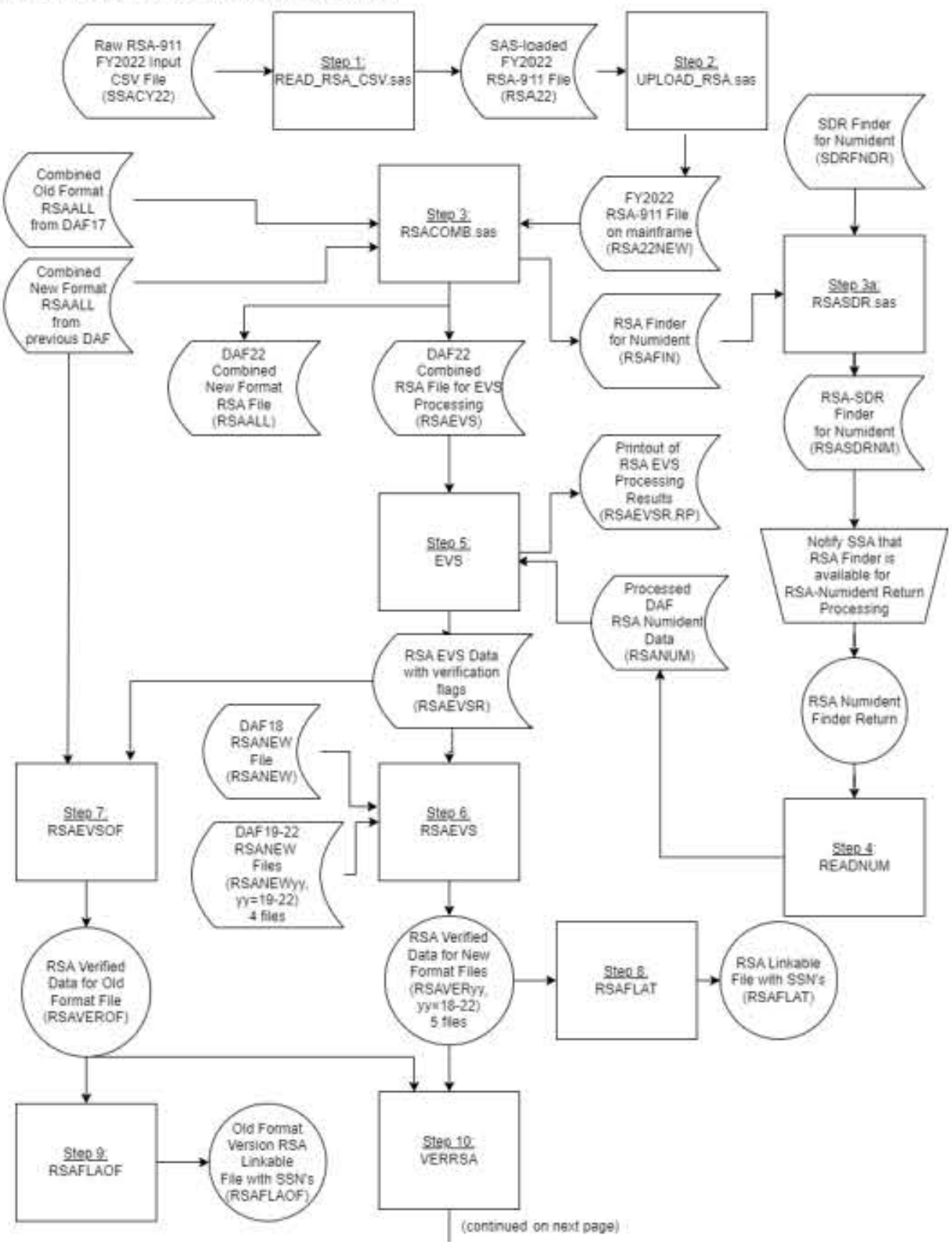
QA:

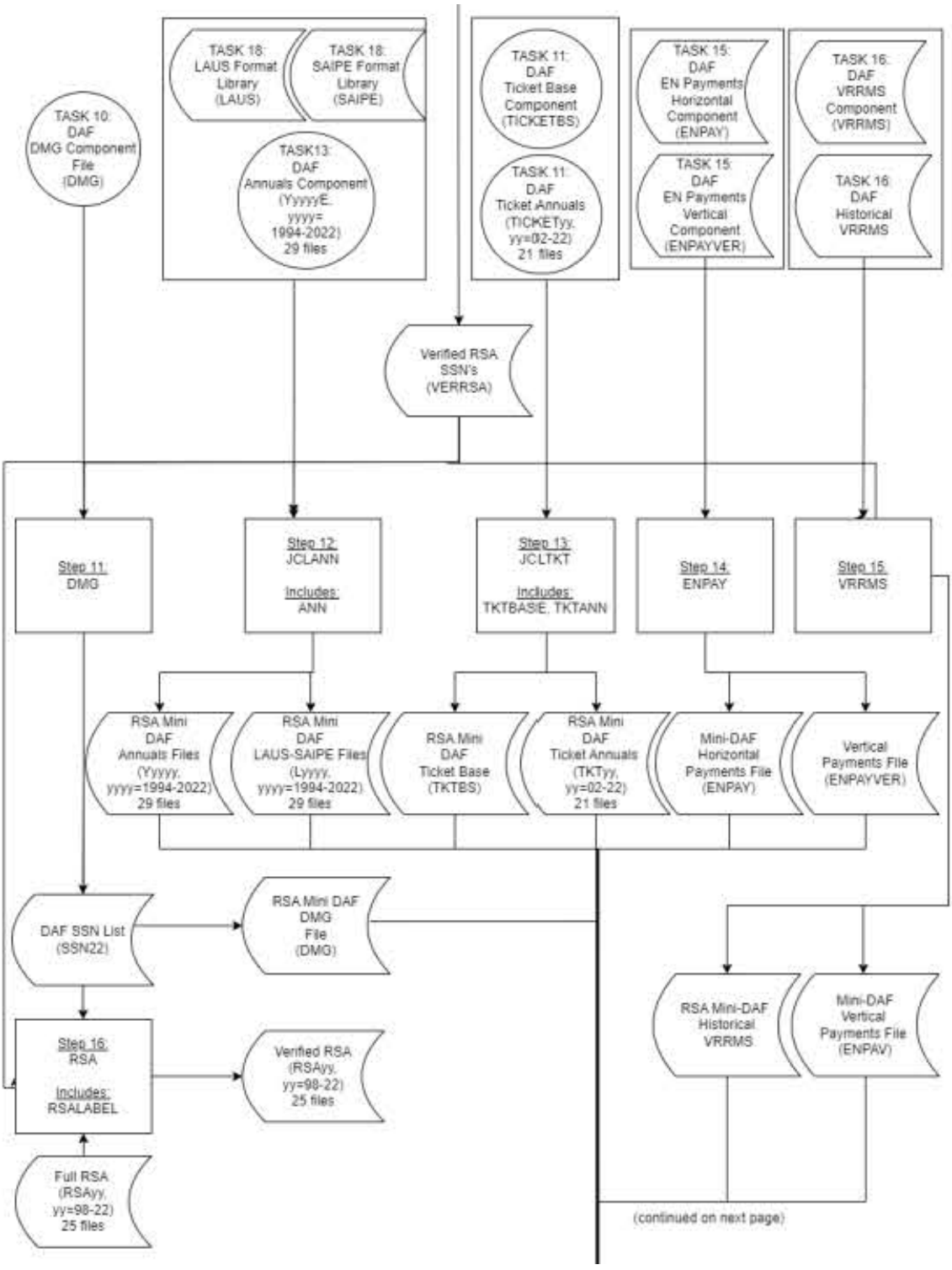
- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm number of observations in Historic VRRMS Input matches the number of observations in the Finalized Historic VRRMS Output
- Proc Contents Comparison of Historic 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%

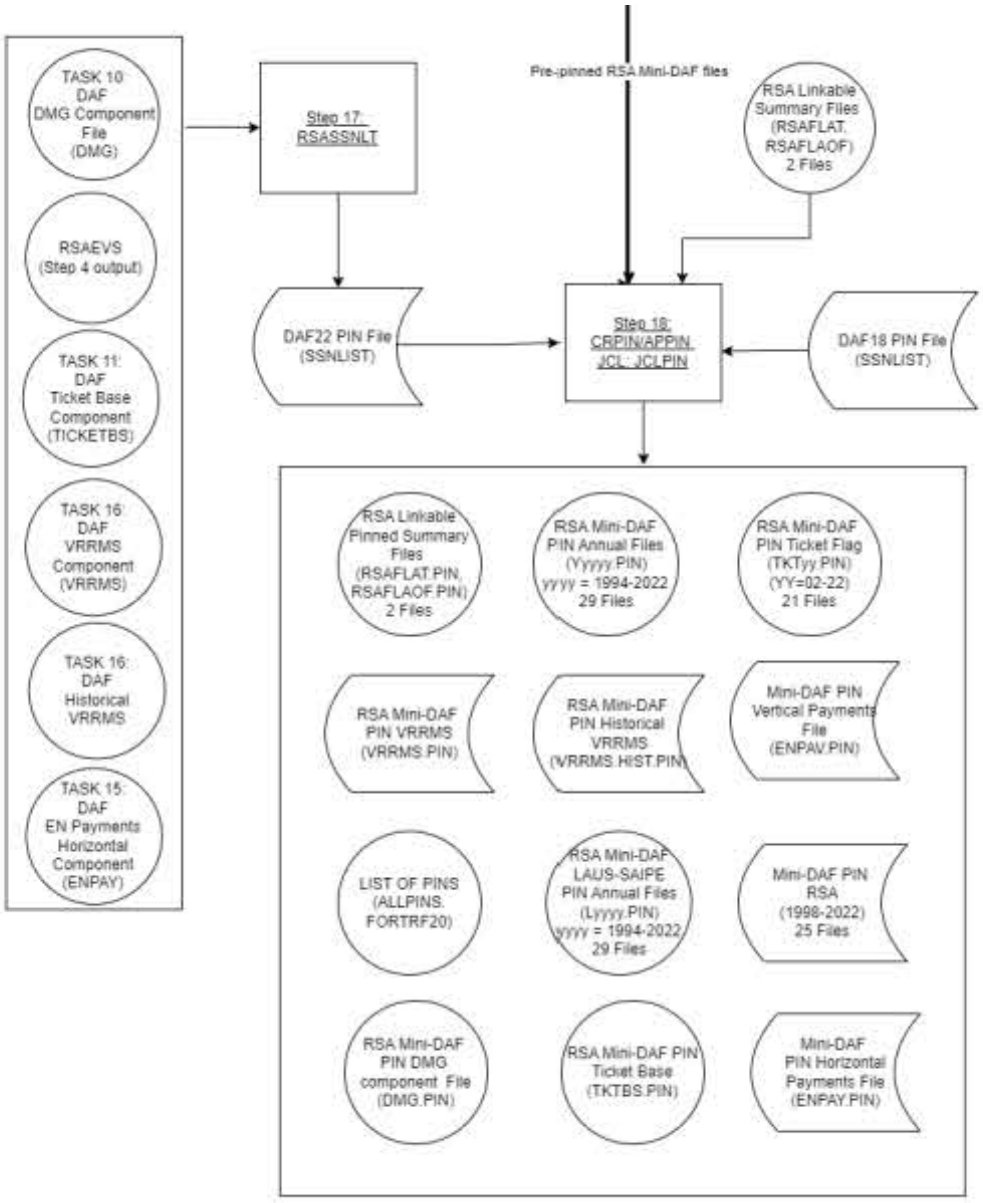
Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 17. Create DAF-RSA files




TASK 10:
DAF
DMG Component
File
(DMG)
TASK 18:
LAUS Format
Library
(LAUS)
TASK 18:
SAIPE Format
Library
(SAIPE)
TASK13:
DAF
Annuals Component
(YyyyyE.
yyyy=
1994-2022)
29 files
TASK 11:
DAF
Ticket Base
Component
(TICKETBS)
TASK 11:
DAF
Ticket Annuals
(TICKETyy.
yy=02-22)
21 files
TASK 15:
DAF
EN Payments
Horizontal
Component
(ENPAY)
TASK 15:
DAF
EN Payments
Vertical
Component
(ENPAYVER)
TASK 16:
DAF
VRRMS
Component
(VRRMS)
TASK 16:
DAF
Historical
VRRMS
Verified RSA
SSN's
(VERRSA)
Step 11:
DMG
Step 12:
JCLANN
Includes:
ANN
Step 13:
JCLTKT
Includes:
TKTBASE, TKTANN
Step 14:
ENPAY
Step 15:
VRRMS
RSA Mini
DAF
Annuals Files
(Yyyyy.
yyyy=1994-2022)
29 files
RSA Mini
DAF
LAUS-SAIPE Files
(Lyyyy.
yyyy=1994-2022)
29 files
RSA Mini
DAF
Ticket Base
(TKTBS)
RSA Mini
DAF
Ticket Annuals
(TKTyy.
yy=02-22)
21 files
Mini-DAF
Horizontal
Payments File
(ENPAY)
Vertical
Payments File
(ENPAYVER)
DAF SSN List
(SSN22)
RSA Mini DAF
DMG
File
(DMG)
RSA Mini-DAF
Historical
VRRMS
Mini-DAF
Vertical
Payments File
(ENPAV)
Step 16:
RSA
Includes:
RSALABEL
Verified RSA
(RSAyy.
yy=98-22)
25 files
Full RSA
(RSAyy.
yy=98-22)
25 files
(continued on next page)


TASK 10: DAF DMG Component File (DMG)
RSAEVS (Step 4 output)
TASK 11: DAF Ticket Base Component (TICKETBS)
TASK 16: DAF VRRMS Component (VRRMS)
TASK 16: DAF Historical VRRMS
TASK 15: DAF EN Payments Horizontal Component (ENPAY)
Step 17: RSASSNLT
Pre-pinned RSA Mini-DAF files
RSA Linkable Summary Files (RSAFLAT, RSAFLAOF) 2 Files
DAF22 PIN File (SSNLIST)
Step 18: CRPIN/APPIN JCL: JCLPIN
DAF18 PIN File (SSNLIST)
RSA Linkable Pinned Summary Files (RSAFLAT.PIN, RSAFLAOF.PIN) 2 Files
RSA Mini-DAF PIN Annual Files (Yyyyy.PIN) yyyy = 1994-2022 29 Files
RSA Mini-DAF PIN Ticket Flag (TKTyy.PIN) (YY=02-22) 21 Files
RSA Mini-DAF PIN VRRMS (VRRMS.PIN)
RSA Mini-DAF PIN Historical VRRMS (VRRMS.HIST.PIN)
Mini-DAF PIN Vertical Payments File (ENPAV.PIN)
LIST OF PINS (ALLPINS. FORTRF20)
RSA Mini-DAF LAUS-SAIPE PIN Annual Files (Lyyyy.PIN) yyyy = 1994-2022 29 Files
Mini-DAF PIN RSA (1998-2022) 25 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: 12/04/2023

MAIN PROGRAM:
M:\DAF22\TASK 17 Create DAF-RSA Files\Programs\Read_RSA_CSV.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\2022 RSA 911 raw file from Dept of Education\SSACY2022.csv (N=1,448,852) (CSV File Format)

OUTPUT(S):
M:\DAF22\RSA\upd\rsa22.sas7bdat (N=1,448,852) (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%
CY22	1,448,852	+8.77%

Step 2

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

DATE EXECUTED: 01/02/2024

MAIN PROGRAM:
M:\DAF22\TASK 17 Create DAF-RSA Files\Programs\UPLOAD_RSA.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\RSA\upd\rsa22.sas7bdat (N=1,448,852) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.RSA22NEW.SA.V1 (N= N=1,448,852) (SAS File Format)

LOG: M:\DAF22\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: 01/02/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(RSACOMB)

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.#3590.DAF21.RSAALL.SA.V1 (N=5,815,117) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA22NEW.SA.V1 (N=1,448,852) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSAALL.SA.V1 (N=7,263,969) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVS.SA.V1 (N=19,164,325) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAFIN.FL.V1 (N =10,831,835) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.RSACOMB

APPROXIMATE PROCESSING TIME: 00 hours 12 minutes 04 seconds

QA:

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

Step 3a

PURPOSE:
Combine the Numident Finder files from the RSA processing and the SDR processing.

DATE EXECUTED: 01/23/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF22.RSA.PRDLIB(RSASDR)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAFIN.FL.V1 (N = 10,831,835)
OPDR.TG.PRD.ETTW.#5413.DAF22I.SDRFNDR.SA.V1 (N= 23,993,846)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.RSASDRNM.FL.V1(N= 31,918,219)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF22.RSA.CRNUMFIN

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 46 seconds

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 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: 02/06/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF22.RSA.PRDLIB (READNUM)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22.RSAAPP.NUM (N=117,541,575) (Flat File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.RSANUM.SA.V1 (N=31,832,660) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.$4671.DAF22.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%
DAF22*	117,541,575	31,832,660	27.1%

**In DAF22 this total includes both RSA participants and beneficiaries with Applications in the DRF.*

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: 02/06/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(EVS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.RSANUM.SA.V1 (N=31,832,660) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVS.SA.V1 (N=19,164,325) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.RP.V1 (N=12) (Text File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.SA.V1 (N= 19,164,325) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.EVS

APPROXIMATE PROCESSING TIME: 00 hours 09 minutes 34 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%
DAF22	19164325	16947329	88.4%	1530788	8.0%	485765	2.5%	200443	1.0%

Step 6

PURPOSE:
Merge EVS results to post-2018 RSA years.

DATE EXECUTED: 02/06/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(RSAEVS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.SA.V1 (N= 19,164,325) (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)
OPDR.TG.PRD.ETTW.#6502.RSA22NEW.SA.V1 (N= 1,448,852) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER18.SA.V1 (N=1,646,029) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER19.SA.V1 (N=1,515,831) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER20.SA.V1 (N=1,321,278) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER21.SA.V1 (N=1,331,979) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER22.SA.V1 (N=1,448,852) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.RSAEVS

APPROXIMATE PROCESSING TIME: 00 hours 17 minutes 31 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	991,078	74.4%
DAF22	1,448,852	1,384,382	95.55%

Step 7

PURPOSE:
Merge EVS results to pre-2018 RSA years.

DATE EXECUTED: 02/06/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(RSAEVSOF)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.SA.V1 (N= 19,164,325) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF17P.RSAALLOF.SA.V1 (OBS=11,900,356) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVEROF.SA.V1 (N= 11,900,356) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.RSAEVSOF

APPROXIMATE PROCESSING TIME: 13 MIN 50 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: 02/08/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(RSAFLAT)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER22.SA.V1 (N= 1,384,382 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER21.SA.V1 (N= 991,005 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER20.SA.V1 (N= 908,022 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER19.SA.V1 (N= 1,057,744 where ver_code="Y") (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER18.SA.V1 (N= 1,256,757 where ver_code="Y") (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.RSAFLAT(N= 2,331,306) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.RSAFLAT

APPROXIMATE PROCESSING TIME: 00 hours 04 minutes 36 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: 02/07/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(RSAFLAOF)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVEROF.SA.V1 (N= 11,349,419 where ver_code="Y") (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.RSAFLAOF (N= 8,554,779) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.RSAFLAOF

APPROXIMATE PROCESSING TIME: 00 hours 09 minutes 26 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: 02/08/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.PRDLIB(VERRSA)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVEROF.SA.V1 (N= 11,349,419 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER18.SA.V1 (N= 1,256,757 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER19.SA.V1 (N= 1,057,744 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER20.SA.V1 (N= 908,022 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER21.SA.V1 (N= 991,005 where ver_code=“Y”) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAVER22.SA.V1 (N= 1,384,382 where ver_code=“Y”) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSA.VERRSA

APPROXIMATE PROCESSING TIME: 00 hours 05 minutes 37 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: 2/29/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(DMG)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22C.DMG (N= 38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.DMG (N= 5,119,484) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSADAF.SSN22.SA.V1 (N= 5,119,484) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.DEMO

APPROXIMATE PROCESSING TIME: 00 hours 59 minutes 50 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: 02/29/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(JCLANN)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(ANN)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.Y*yyyy*E where *yyyy* =1994-2022 (N = varies) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.Y*yyyy* where *yyyy* = 1994-2022 (N= varies, see below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.L*yyyy* where *yyyy* = 1994-2022 (N= varies, see below) (SAS File Format)

Output Observations (in both the Annuals and LAUS/SAIPE extracts)
2022: 3,482,542
2021: 3,602,923
2020: 3,713,977
2019: 3,797,360
2018: 3,863,270
2017: 3,916,559
2016: 3,956,199
2015: 3,980,267
2014: 3,988,116
2013: 3,981,125
2012: 3,951,791
2011: 3,896,591
2010: 3,817509
2009: 3,715,954
2008: 3,587,829
2007: 3,467,643
2006: 3,348,275
2005: 3,219,005
2004: 3,079,629
2003: 2,928,715
2002: 2,755,199
2001: 2,570,873
2000: 2,405,177
1999: 2,252,400
1998: 2,103,891
1997: 1,950,221
1996: 1,800,148
1995: 1,619,229
1994: 1,433,079

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.ANN

APPROXIMATE PROCESSING TIME: 11 hours 34 minutes 34 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: 02/29/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(JCLTKT)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(TKTBASE)
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(TKTANN)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKETBS (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKET*yy* where *yy*= 02-22 (N=29,215,980) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.TKTBS (N= 4,573,603) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.TKT*yy* where *yy*= 02-22(N=4,573,603) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.JCLTKT

APPROXIMATE PROCESSING TIME: 05 hours 00 minutes 22 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: 03/01/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(ENPAY)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.ENPAY (N=130,092) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.ENPAYVER (N= 1,517,051) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.ENPAY (N= 72,183) (SAS File Format)

OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.ENPAV (N= 821,568) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.ENPAY

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 52 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: 03/01/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(VRRMS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS (N= 75,459) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS.HIST (N=248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,107,671) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.VRRMS (N= 76,563) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.VRRMS.HIST (N=210,022) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.VRRMS

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 45 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: 03/04/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(RSA)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(RSALABEL)

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.RSADAF.SSN22.SA.V1 (N= 5,119,484) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.VERRSA.SA.V1 (N= 10,338,619) (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 (N=1,331,979) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.RSA22NEW.SA.V1 (N=1,448,852) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.RSA*yy* where *yy*= 98-22 (N = varies, see below) (SAS File Format)

RSA Extract Output Observations
98: 564,197
99: 569,813
00: 588,336
01: 604,581
02: 611,467
03: 620,028
04: 625,248
05: 590,769
06: 591,570
07: 575,885
08: 593,262
09: 564,761
10: 587,419

11: 565,975
12: 556,678
13: 566,527
14: 521,732
15: 528,272
16: 517,091
17: 405,808
18: 1,256,757
19: 1,057,744
20: 908,022
21: 991,005
22: 1,384,382

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.RSA

APPROXIMATE PROCESSING TIME: 00 hours 21 minutes 06 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: 03/05/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.PRDLIB(RSASSNLT)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.DMG (N= 38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.SA.V1 (N= 19,164,325) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKETBS (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS (N= 79,459) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS.HIST (N= 248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.ENPAY (N= 130,092) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSNLIST.SA.V1 (N= 44,128,465) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.RSADAF.RSASSNLT

APPROXIMATE PROCESSING TIME: 01 hours 20 minutes 40 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.#6502.DAF22.RSADAF.PRDLIB(JCLPIN)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW. #6502.DAF22.RSADAF.PRDLIB(CRPIN)
OPDR.TG.PRD.ETTW. #6502.DAF22.RSADAF.PRDLIB(APPIN)

INPUT(S):
OPDR.TG.PRD.RTWR.DAF21P.ALLPINS.FORTRF21 (N= N/A) (SAS File Format)
OPDR.TG.PRD.ETTW.#6502.DAF22P.SSNLIST.SA.V1 (N=44,128,465) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.DMG (N= 5,119,484) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.Y*yyyy* where *yyyy* = 1994-2022 (N=varies, see Step #12) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.L*yyyy* where *yyyy* = 1994-2022 (N=varies, see Step #12) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.TKTBS (N=4,573,603) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.TKT*yy* where *yy* = 02-22 (N=4,573,603) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.VRRMS (N=75,563) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.VRRMS.HIST (N=210,002) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.ENPAY (N=72,183) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.ENPAV (N=821,568) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.RSAFLAOF (N=8,554,779) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.RSAFLAT (N=2,331,306) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.RSA.DAF22.RSA*yy* where *yy* = 98-22 (N=varies, see Step #16) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.RTWR.DAF22P.ALLPINS.FORTRF21 (N= N/A) (SAS File Format)

DAF DEMO EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.DEMO.PIN (SAS File Format)

DAF ANNUALS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.Y*yyyy*.PIN where *yyyy* = 1994-2022 (SAS File Format)

DAF ANNUAL LAUS/SAIPE EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.Lyyyy.PIN where yyyy = 1994-2022 (SAS File Format)

DAF TKT BASE EXTRACT:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.TKTBS.PIN (SAS File Format)

DAF TKT ANNUALS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.TKT*yy*.PIN where *yy* = 02-22 (SAS File Format)

RSA EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.RSA*yy*.PIN where *yy*=98-22 (N= varies, see below) (SAS File Format)

RSA DAF LINKABLE FILES:
OPDR.TG.PRD.ETTW.RSAVER.DAF22P.RSAFLAOF.PIN (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF21P.RSAFLAT.PIN (SAS File Format)

VRRMS EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.VRRMS.PIN (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF22.VRRMS.HIST.PIN (SAS File Format)

PAYMENT EXTRACTS:
OPDR.TG.PRD.ETTW.RSAVER.DAF22.ENPAY.PIN (SAS File Format)
OPDR.TG.PRD.ETTW.RSAVER.DAF22.ENPAV.PIN (SAS File Format)

LOG: N/A

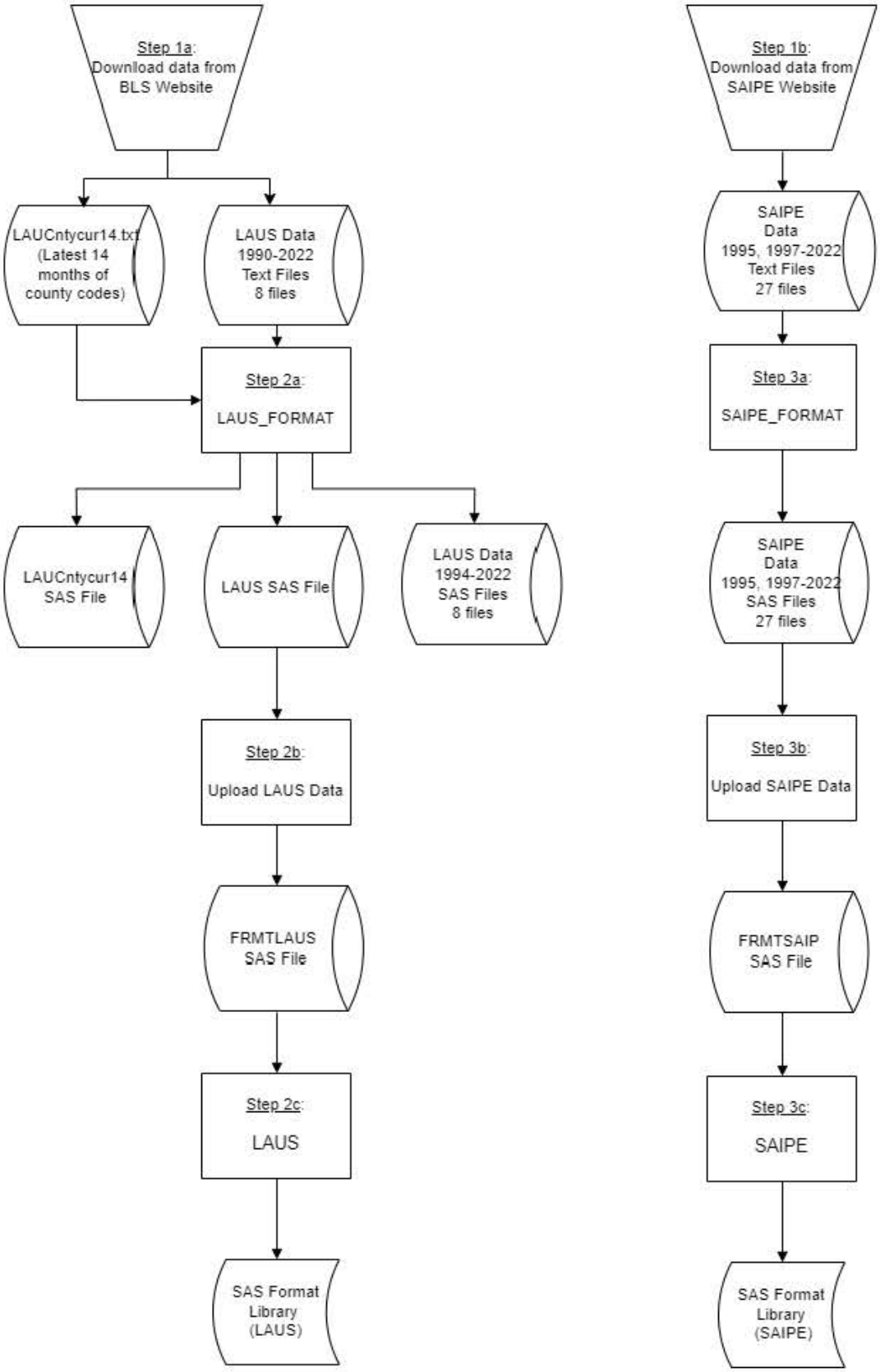
APPROXIMATE PROCESSING TIME: N/A

QA: N/A

Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 18. Create LAUS and SAIPE SAS formats



Task No.: 18	**Task Name:** Create the LAUS/SAIPE 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: 11/29/2023

MAIN PROGRAM: N/A

INCLUDED SAS PROGRAM(S): N/A

INPUT(S): N/A

OUTPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\laucntycur14.txt (N=45,085) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU90-94.txt (N=2,011,659) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU95-99.txt (N=2,032,095) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU00-04.txt (N=2,116,855) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU05-09.txt (N=2,117,375) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU10-14.txt (N=2,163,083) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU15-19.txt (N=2,170,935) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU20-24.txt (N=1,612,603) (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: 12/19/2023

MAIN PROGRAM: N/A

INCLUDED SAS PROGRAM(S): N/A

INPUT(S): N/A

OUTPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est95all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est97all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est98all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est99all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est00all.txt (N=3,192) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est01all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est02all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est03all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est04all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est05all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est06all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est07all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est08all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est09all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est10all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est11all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est12all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est13all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est14all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est15all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est16all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est17all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est18all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est19all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est20all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est21all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est22all.txt (N=3,196) (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: 11/30/2023

MAIN PROGRAM:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\LAUS_FORMAT.SAS (This is a SAS program on PC)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\laucntycur14.txt (N=45,085) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU90-94.txt (N=2,011,659) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU95-99.txt (N=2,032,095) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU00-04.txt (N=2,116,855) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU05-09.txt (N=2,117,375) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU10-14.txt (N=2,163,083) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU15-19.txt (N=2,170,935) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\la.data.0.CurrentU20-24.txt (N=1,612,603) (Flat File Format)

OUTPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\laucntycur14.sas7bdat (N=3,220) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_90_94.sas7bdat (N=92,448) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_95_99.sas7bdat (N=466,560) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_00_04.sas7bdat (N=486,120) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_05_09.sas7bdat (N=486,240) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_10_14.sas7bdat (N=496,788) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_15_19.sas7bdat (N=498,600) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\MER_20_24.sas7bdat (N= 300,828) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\laus.sas7bdat (N= 1,118,976) (SAS File Format)

LOG:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs \LAUS_FORMAT_2022-11-30.log

APPROXIMATE PROCESSING TIME: 03 hours 47 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

	DAF20	DAF21	DAF22	DAF20 to DAF21 % change	DAF21 to DAF22 % change
laucntycur14	3,219	3,220	3,220	0.03	0.00
MER_90_94	92,448	92,448	92,448	0.00	0.00
MER_95_99	466,560	466,560	466,560	0.00	0.00
MER_00_04	486,120	486,120	486,120	0.00	0.00
MER_05_09	486,240	486,240	486,240	0.00	0.00
MER_10_14	495,216	496,728	496,788	0.31	0.01
MER_15_19	496,932	498,540	498,600	0.32	0.01
MER_20_24	99,588	200,352	300,828	101.18	50.15
LAUS	1,041,996	1,080,336	1,118,976	3.68	3.58

Step 2b

PURPOSE: Upload the PC based SAS LAUS files onto the mainframe.

DATE EXECUTED: 1/02/2024

MAIN PROGRAM:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload LAUS Data.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\laus.sas7bdat (N=1,080,336) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.FRMTLAUS.SA.V1 (N=1,118,976) (SAS File Format)

LOG:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload LAUS Data.log

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 46 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: 01/02/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6266.DAF22.LAUS.PRDLIB(LAUS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.FRMTLAUS.SA.V1 (N=1,118,976) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.LAUS.FMTLIB (N = N/A) (SAS Format Library)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.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: 12/19/2023

MAIN PROGRAM:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\SAIPE_FORMAT.SAS (This is a SAS program on PC)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est95all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est97all.txt (N=3,193) (Flat File Format)

M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est98all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est99all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est00all.txt (N=3,192) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est01all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est02all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est03all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est04all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est05all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est06all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est07all.txt (N=3,193) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est08all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est09all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est10all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est11all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est12all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est13all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est14all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est15all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est16all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est17all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est18all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est19all.txt (N=3,194) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est20all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est21all.txt (N=3,195) (Flat File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Raw Data\est22all.txt (N=3,196) (Flat File Format)

OUTPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est95ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est97ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est98ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est99ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est00ALL.sas7bdat (N=3,192) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est01ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est02ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est03ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est04ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est05ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est06ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est07ALL.sas7bdat (N=3,193) (SAS File Format)

M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est08ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est09ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est10ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est11ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est12ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est13ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est14ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est15ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est16ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est17ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est18ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est19ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est20ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est21ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est22ALL.sas7bdat (N=3,196) (SAS File Format)

LOG:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\SAIPE_FORMAT _2023-12-19.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: 01/02/2024

MAIN PROGRAM:
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Programs\Upload SAIPE Data.sas

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est95ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est97ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est98ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est99ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est00ALL.sas7bdat (N=3,192) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est01ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est02ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est03ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est04ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est05ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est06ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est07ALL.sas7bdat (N=3,193) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est08ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est09ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est10ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est11ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est12ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est13ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est14ALL.sas7bdat (N=3,194) (SAS File Format)

M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est15ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est16ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est17ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est18ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est19ALL.sas7bdat (N=3,194) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est20ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est21ALL.sas7bdat (N=3,195) (SAS File Format)
M:\DAF22\TASK 18 Create LAUS-SAIPE Formats\Output\est22ALL.sas7bdat (N=3,196) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.FRMTSAIP.SA.V1(N = 3,192-3,196) (SAS File Format) (contains the input datasets: EST95ALL, EST97ALL-EST22ALL)

LOG:
N/A – was not created. (Will need to add this for DAF23)

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: 01/02/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#6502.DAF22.LAUS.PRDLIB(SAIPE)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.FRMTSAIP.SA.V1 (N = 3,192-3,196) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.SAIPE.FMTLIB (N = N/A) (SAS Format Library)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.LAUS.SAIPE

QA:

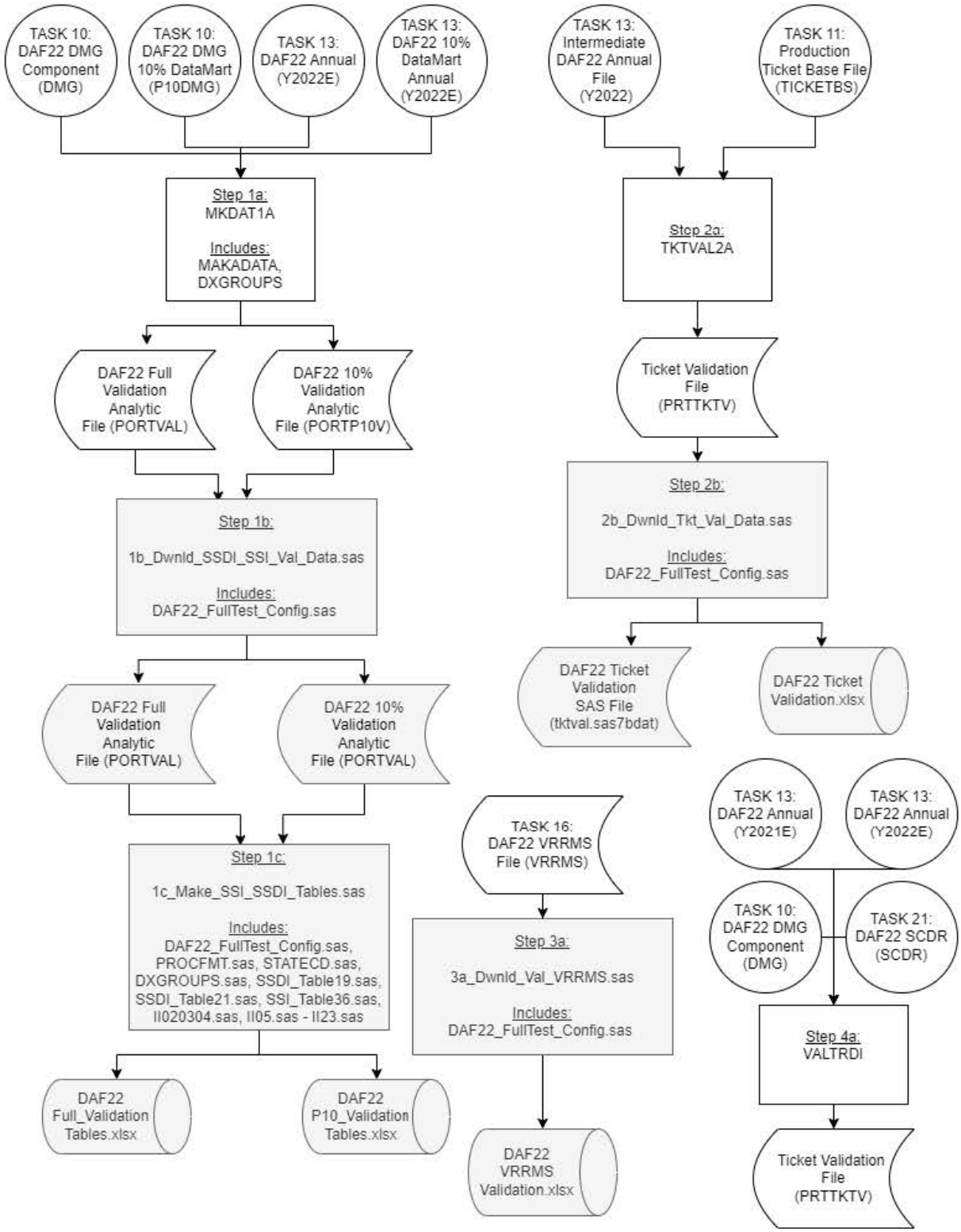
- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Formal code review
- Confirm in lst portion of log that FIPS should equal PCT_POV and START should equal MED_INC

Data Documentation: N/A

SSA Contact Staff:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 19. Validate the DAF



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 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: Process an analytic data file with flags and a reduced number of variables over both the full DAF and the 10% DAF over the mainframe.

DATE EXECUTED: 02/12/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5692.DAF22.ARCVAL.PRDLIB(MKDAT1A)

INCLUDED SAS PROGRAM(S):
OPDR.TG.PRD.ETTW.#5692.DAF22.ARCVAL.PRDLIB(MAKEDATA)
OPDR.TG.PRD.ETTW.#5692.DAF22.ARCVAL.PRDLIB(DXGROUPS)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.DMG (N = 38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.Y2022E (N= 17,248,952) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10DMG (N=3,744,968) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.Y2022E (N= 1,756,352) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22T.ARCVAL.SA.V1 (N= 17,248,952) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.ARCP10V.SA.V1 (N= 1,724,065) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.ARCVAL.MKDAT1A

APPROXIMATE PROCESSING TIME: 01 hours 35 minutes 54 seconds

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

Step 1b

PURPOSE: Download the data files that were created in the MKDATJCL process, including both the analytic validation file for the Full DAF and for the 10% DAF.

DATE EXECUTED: 02/12/2024

MAIN PROGRAM:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\1b_Dwnld_SSDI_SSI_Val_Data.sas

INCLUDED SAS PROGRAM(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\Code\Utility Library\DAF22_FullTest_Config.sas

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22T.ARCVAL.SA.V1 (N= 17,248,952) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.ARCP10V.SA.V1 (N= 1,724,065) (SAS File Format)

OUTPUT(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Intermediate\FULL_DAF_VAL_DATA.sas7bdat (N= 17,248,952) (SAS File Format)
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Intermediate\P10_DAF_VAL_DATA.sas7bdat (N= 1,724,065) (SAS File Format)

LOG:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\LogLst\1b_Dwnld_SSDI_SSI_Val_Data.log

APPROXIMATE PROCESSING TIME: 00 hours 08 minutes 00 seconds

QA:
- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat
- Formal code review

Step 1c

PURPOSE: Produce SSI and SSDI Validation tables for both the full DAF and the 10% DAF.

DATE EXECUTED: 02/12/2024

MAIN PROGRAM:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\1c_Make_SSI_SSDI_Tables.sas

INCLUDED SAS PROGRAM(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\Code\Utility Library\DAF22_FullTest_Config.sas

\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\PROCFMT.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\STATECD.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\DXGROUPS.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\SSDI_Table19.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\SSDI_Table21.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\SSI_Table36.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II020304.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II05.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II06.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II07.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II08.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II09.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II10.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II11.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II12.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II13.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II14.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II15.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II16.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II17.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II18.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II19.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II20.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II21.sas
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II22.sas

\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\II23.sas

INPUT(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Intermediate\FULL_DAF_VAL_DATA.sas7bdat (N= 17,248,952) (SAS File Format)
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Intermediate\P10_DAF_VAL_DATA.sas7bdat (N= 1,724,065) (SAS File Format)

OUTPUT(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Output\DAF22_Full_Validation_Tables.xlsx
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Output\DAF22_P10_Validation_Tables.xlsx

LOG:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\LogLst\1c_Make_SSI_SSDI_Tables.log

APPROXIMATE PROCESSING TIME: 00 hours 10 minutes 00 seconds

QA:

- Manually search log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat
- Formal code review

Step 2a

PURPOSE: Combine the ticket base and current DAF Annual file, keep active tickets, and create payment/provider flag variables.

DATE EXECUTED:

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#7429.DAF21.PORTVAL.PRDLIB(TKTVAL2A)

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.#7429.DAF21T.ARCTKTV.SA.V1 (N= 56) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#7429.DAF21.ARCVAL.TKTVL2A

APPROXIMATE PROCESSING TIME: 00 hours 57 minutes 30 seconds

QA:

- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 2b

PURPOSE: Download the ticket validation output file and print to excel.

DATE EXECUTED: 06/05/2023

MAIN PROGRAM:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\2b_Dwnld_Tkt_Val_Data.sas

INCLUDED SAS PROGRAM(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\Code\Utility Library\DAF21_FullTest_Config.sas
<Team_Path>\P225802\Brittany_PW.sas

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF21T.PRTTKTV.SA.V1 (N= 56) (SAS File Format)

OUTPUT(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ODES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Intermediate\tktval.sas7bdat
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Output\DAF21 Ticket Validation.xlsx

LOG:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\LogLst\2b_Dwnld_Tkt_Val_Data.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 3a

PURPOSE: Download a temporary, limited version of the VRRMS data and produce validation output.

DATE EXECUTED: 06/05/2023

MAIN PROGRAM:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Programs\3a_Dwnld_Val_VRRMS.sas

INCLUDED SAS PROGRAM(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\Code\Utility Library\DAF21_FullTest_Config.sas
<Team_Path>\P225802\Brittany_PW.sas

INPUT(S):OPDR.TG.PRD.ETTW.DRAFT.DAF21P.VRRMS (N= 61,660) (SAS File Format)

OUTPUT(S):
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Data\Output\DAF21 VRRMS Validation.xlsx

LOG:
\\ba.ad.ssa.gov\SAS_ARC\SAS_X\ARC_SAS\ORDES_DAF\DAF22_Full_Test\DAF22_Validation\Log Lst\3a_Dwnld_Val_VRRMS.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 30 seconds

QA:
- Manual search in SAS log for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”
- Formal code review

Step 4a

PURPOSE: Create analytic data file for populating Volume 6 SSDI termination validation table shell.

DATE EXECUTED: 03/06/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#3590.DAF22.VAL.PRDLIB(VALTRDI)

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22C.DMG (N= 38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.Y2021E(N= 18,068,960) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.Y2022E(N= 17,248,952) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.SCDR (N= 38,202,693) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.VAL21I.VALTRDI.SA.V1(N= 9,409,233) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.VAL21I.FRTRDI.SA.V1(N= 6) (SAS File Format)
OPDR.TG.PRD.ETTW.#3590.DAF21I.FRWRDI.SA.V1(N= 6) (SAS File Format)

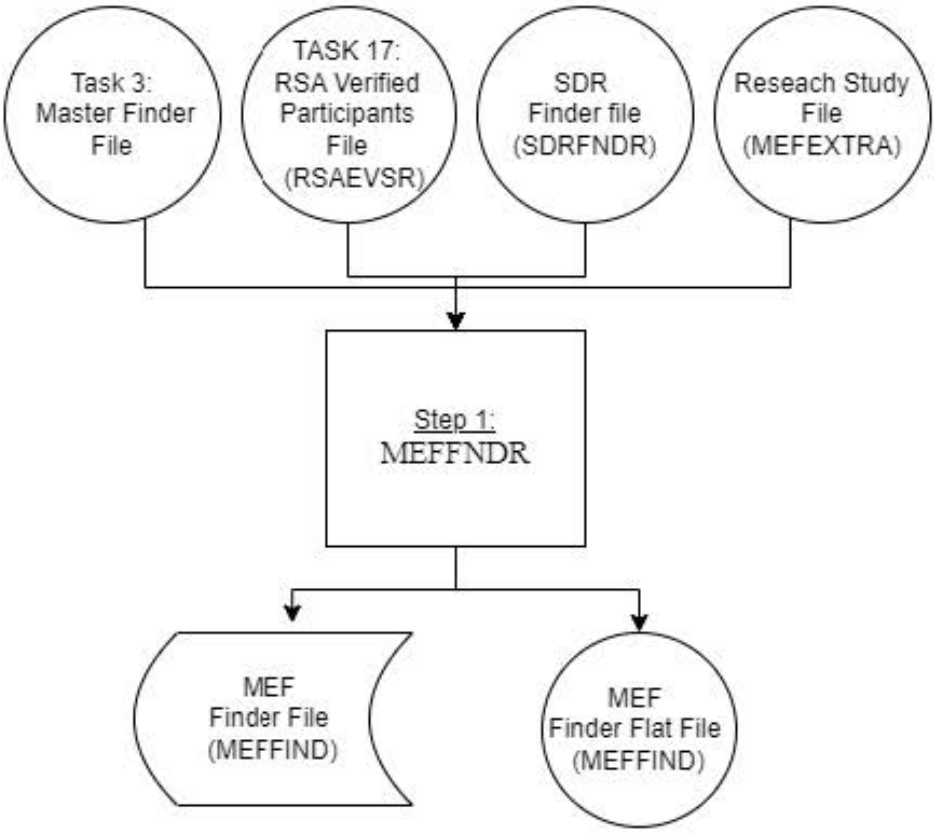
LOG: OPDR.TG.PRD.ETTW.#3590.DAF22.VAL.VALTRDI

APPROXIMATE PROCESSING TIME: 02 hours 02 minutes 43 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: Christopher D. Earles PHONE: (410) 966-0864 EMAIL: Christopher.D.Earles@ssa.gov

Task 20. Create SCWF



Task No.: 20	**Task Name:** Create MEF Component

Summary: The purpose of this task is to:

1. Create a finder file containing all the SSNs from the DMG, Verfiied RSA Participants, Applicants, and Research Study (special request by SSA)

Step 1

PURPOSE: Create a finder file containing all the SSNs from the DMG, Verfiied RSA Participants, Applicants, and Research Study (special request by SSA)

DATE EXECUTED: 03/06/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.$4671.DAF22.MEF.PRDLIB(MEFFNDR)

INCLUDED SAS PROGRAMS: N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#6502.DAF22P.MASTFIND.SA.V1 (N= 38,239,513)
OPDR.TG.PRD.ETTW.#6502.DAF22P.RSAEVSR.SA.V1 (N= 16,947,329 where VER_CODE='Y')
OPDR.TG.PRD.ETTW.#5413.DAF22I.SDRFNDR.SA.V1 (N= 23,227,520)
OPDR.TG.PRD.ETTW.$4671.DAF22.MEFEXTRA.SA.V1 (N= 7,661,194)

OUTPUT(S):
OPDR.TG.PRD.ETTW.$4671.DAF22P.MEFFIND.FL.V1 (N=56,652,438)
OPDR.TG.PRD.ETTW.$4671.DAF22P.MEFFIND.SA.V1 (N=56,652,438)

LOG: OPDR.TG.PRD.ETTW.$4671.DAF22.MEF.MEFFIND

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 04 seconds

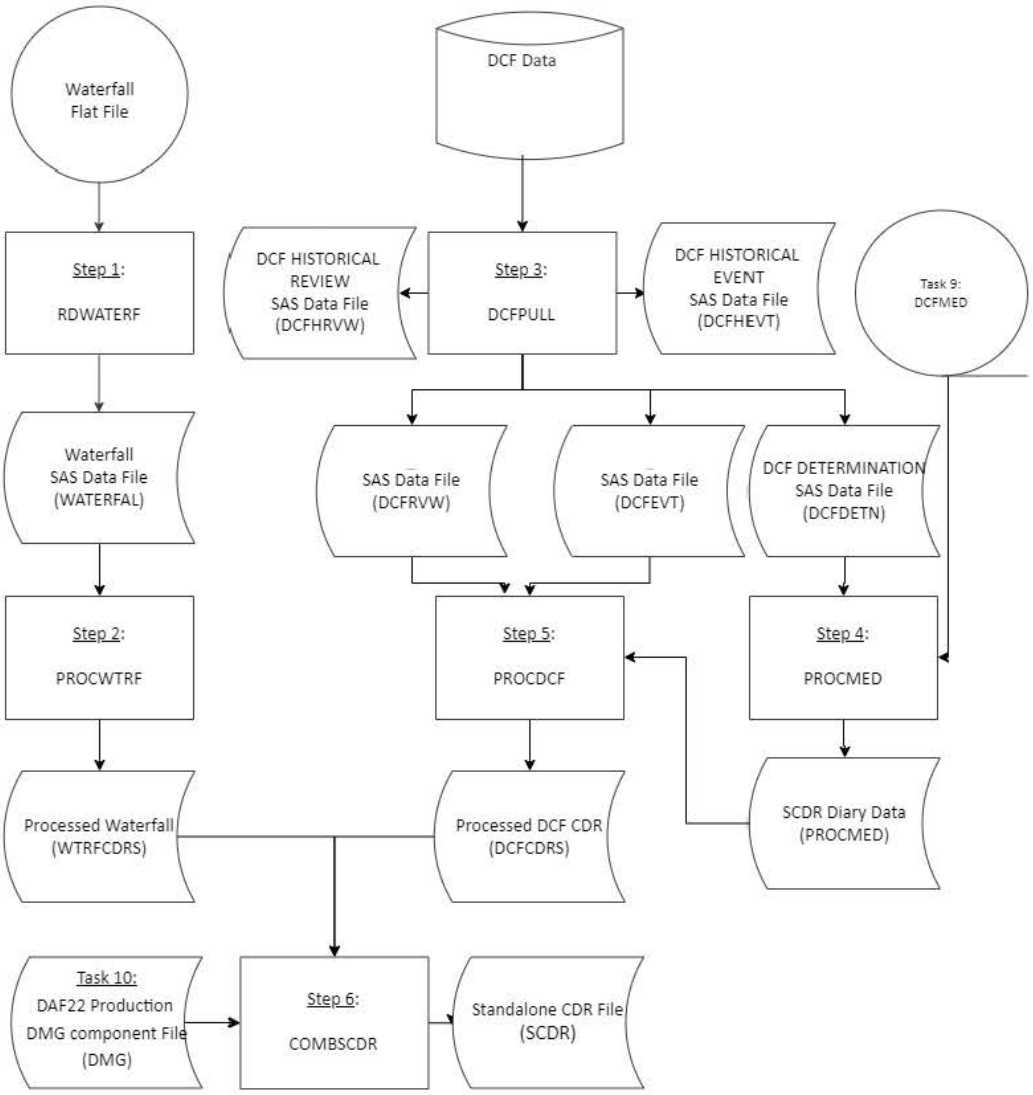
QA:

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

Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@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: 02/02/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.SCDR.PRDLIB(RDWATERF)

INPUT(S):
OPDR.TG.PRD.ETTW.WATERFAL.EXTOUT.FY2022 (N = 14,039,650)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.WATERFAL.SA.V1 (N = 14,039,650)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.SCDR.RDWATERF

APPROXIMATE PROCESSING TIME: 0 hours 06 minutes 14 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%
DAF22	14,039,650	4.15%

Step 2

PURPOSE:
Processes the Waterfall file into an beneficiary-level dataset.

DATE EXECUTED: 02/02/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#5413.DAF22.SCDR.PRDLIB(PROCWTRF)

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.WATERFAL.SA.V1 (N= 14,039,650)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.WTRFCDRS.SA.V1 (N= 10,470,731)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.CDR.PROCWTRF

APPROXIMATE PROCESSING TIME: 0 hours 17 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 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%
DAF22	10,470,731	2.76%

Step 3

PURPOSE:
Produces the DCF Review and DCF Event extracts.

DATE EXECUTED: 02/20/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PRDLIB(DCFPULL)

INPUT(S):
DBP8.DB2.SDSNLOAD (N=N/A)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFRVW.SA.V1 (N= 60,445,532)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFEVT.SA.V1 (N=227,127,483)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFDETN.SA.V1(N=201,205,457)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.DCFPULL

APPROXIMATE PROCESSING TIME: 2 hours 03 minutes 27 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%
DAF22	60,445,532	4.1%

DCFEVT	OBS	RATE
DAF19	198,763,269	
DAF20	206,127,377	3.7%
DAF21	216,487,838	5.0%
DAF22	227,127,483	4.9%

DCFDETN	OBS	RATE
DAF22	201,205,457	

Step 4

PURPOSE:
Produces the DCF Medical SCDR level file.

DATE EXECUTED: 2/20/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PRDLIB(PROCMED)

INPUT(S):
OPDR.TG.PRD.ETTW.#7429.DAF22P.DCFMED.SA.V1 (N= 54,640,219)
where LU_PGM_NM NE ‘CDCNVCLM’ and CID = ‘00’ and COSSN NE ‘000000000’
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFDETN.SA.V1(N= 201,205,457)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.PROCMED.SA.V1 (N= 48,603,373)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PROCMED

APPROXIMATE PROCESSING TIME: 1 hour 0 minutes 44 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

Step 5

PURPOSE:
Processes the DCF Review and DCF Events extracts into a beneficiary-level dataset.

DATE EXECUTED: 02/20/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PRDLIB(PROCDCF)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFRVW.SA.V1 (N= 60,445,532)
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFEVT.SA.V1 (N= 227,127,483)
OPDR.TG.PRD.ETTW.#3590.DAF22P.PROCMED.SA.V1 (N= 48,603,373)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFCDRS.SA.V1 (N= 21,102,884)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PROCDCF

APPROXIMATE PROCESSING TIME: 7 hours 41 minutes 14 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%
DAF22	21,102,884	2.55%

Step 6

PURPOSE:
Combines the Waterfall and DCF beneficiary level files into a stand-alone CDR file.

DATE EXECUTED: 02/21/2024

MAIN PROGRAM:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.PRDLIB(COMBSCDR)

INPUT(S):
OPDR.TG.PRD.ETTW.#3590.DAF22P.DCFCDRS.SA.V1 (N= 21,102,884)
OPDR.TG.PRD.ETTW.#5413.DAF22P.WTRFCDRS.SA.V1 (N= 10,470,731)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.DMG (N= 38,202,693)

OUTPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.SCDR (N= 38,202,693)

LOG:
OPDR.TG.PRD.ETTW.#3590.DAF22.SCDR.COMBSCDR

APPROXIMATE PROCESSING TIME: 4 hours 00 minutes 39 seconds

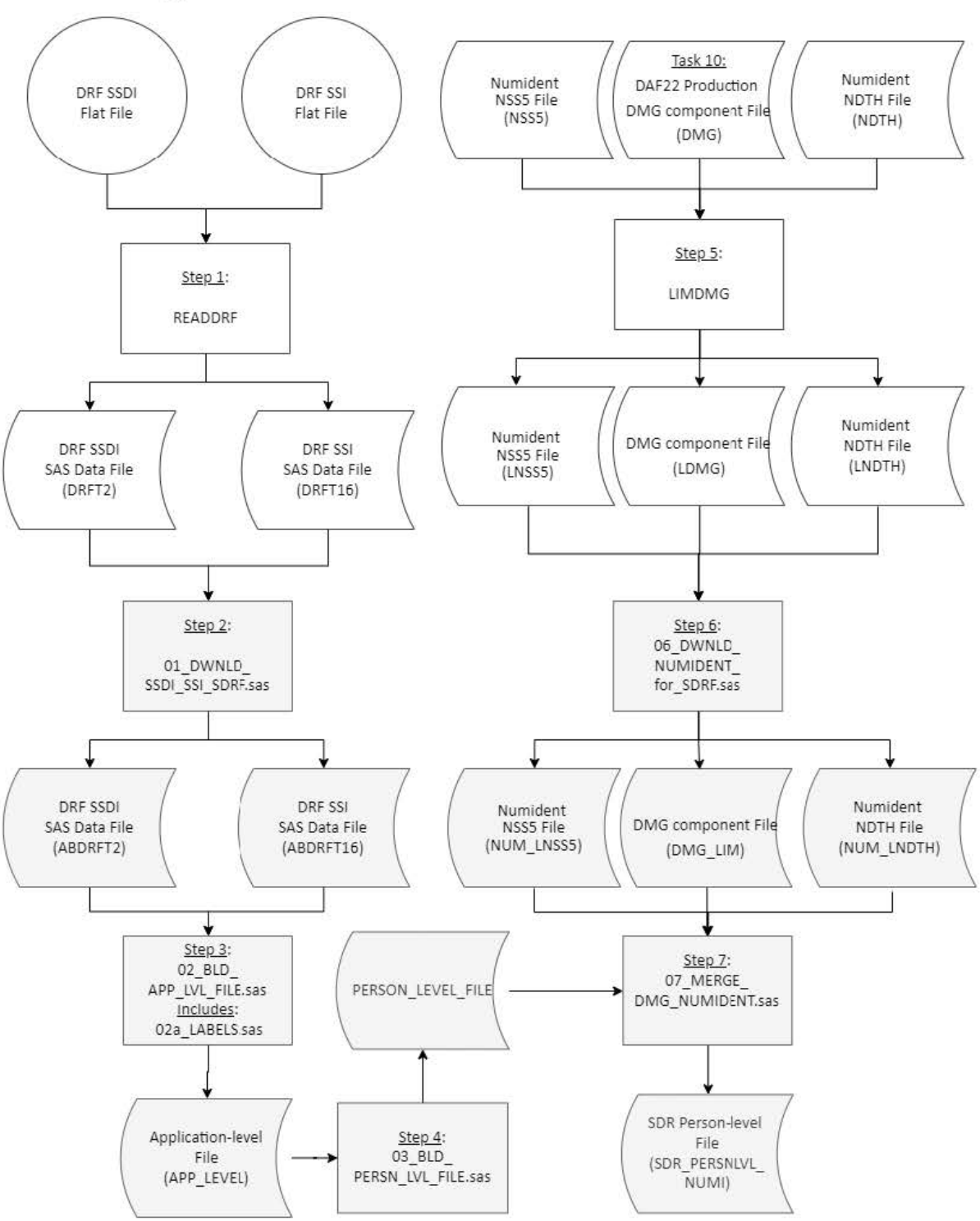
QA:

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

Data Documentation: N/A

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task 22. Build SDR Application File



Task No.: 22	**Task Name:** Build SDR Application file

Summary: The purpose of this task is to:

1. Build SDR Application file.

Step 1

PURPOSE:
Read DRF SSI and SSDI flat files into SAS format files.

DATE EXECUTED: 03/18/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#5413.DAF22.SDRF.PRDLIB(READDRF)

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
#7887.D5750D23.ABBRT16 (Flat file format)
#7887.D5750d23.ABBRT2 (Flat file format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.SDRF.DRFT2 (N=23,245,177) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.SDRF.DRFT16 (N=18,063,029) (SAS file format)

LOG:
OPDR.TG.PRD.ETTW.#5413.DAF22.SDRF.READDRF

APPROXIMATE PROCESSING TIME: 00 hours 06 minutes 00 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

Step 2

PURPOSE: To Download the DRFT2 and DRFT16 SAS datafiles created in step 1, to the ARC to continue with further processing.

DATE EXECUTED: 03/18/2024

MAIN PROGRAM: 01_Dwnld_SSDI_SSI_SDRF.sas

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22P.SDRF.DRFT2 (N=23,245,177) (SAS file format)
OPDR.TG.PRD.ETTW.#5413.DAF22P.SDRF.DRFT16 (N=18,063,029) (SAS file format)

OUTPUT(S):
SSDI SDR: ABDRFT2.sas7bdat (N=23,245,177) (SAS file format)
SSI SDR: ABDRFT16.sas7bdat (N=18,063,029) (SAS file format)

LOG: 01_Dwnld_SSDI_SSI_SDR_20240318.log

APPROXIMATE PROCESSING TIME: n/a

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

Step 3

PURPOSE: To construct an application-level file derived from the merge of the SSDI and SSI data files created in step 2. This program also addresses duplicate records on the SSDI file by a sequence of multiple merges using different dates.

DATE EXECUTED: 03/18/2024

MAIN PROGRAM: 02_Bld_app_lvl_file.sas

INCLUDED SAS PROGRAMS: 02a_labels.sas

INPUT(S):
SSDI SDR: ABDRFT2.sas7bdat (N=23,245,177) (SAS file format)
SSI SDR: ABDRFT16.sas7bdat (N=18,063,029) (SAS file format)

OUTPUT(S):
APP_LEVEL.sas7bdat (N=34,561,785) (SSA file format)

LOG:
02_bld_app_lvl_file_20240318.log

APPROXIMATE PROCESSING TIME: 00 hours 40 minutes 00 seconds

QA:

- Log scan for phrases “Error”, “Uninitialized”, “Warning”, “Obvious”, “Repeat”, “Not Cataloged”, “Not Defined”
- Confirm that the number of SSDI and concurrent records (program equals to 1 or 3) are closely similar to the original number of records in the SSDI DRF input file
- Confirm that the number of SSI and concurrent records (program equals 2 or 3) are exactly equal to the `number or records in the original SSI DRF input file.

Step 4

PURPOSE: Transpose the application level file to construct a person level file, where each row is uniquely identified by a unique SSN and there should at most three columns for each variable. These columns correspond to the earlies, second most recent and most recent application dates for a given person.

DATE EXECUTED: 03/19/2024

MAIN PROGRAM: 03_Bld_persn_lvl_file.sas

INCLUDED SAS PROGRAMS: n/a

INPUT(S):
APP_LEVEL.sas7bdat (N=34,561,785) (SAS file format)

OUTPUT(S):
PERSON_LEVEL_FILE.sas7bdat (N=22310679) (SAS File Format)

LOG: 03_Bld_persn_lvl_file.log

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 00 seconds

QA:

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

Step 5:

PURPOSE: Limit the DMG file only the variables that will be merged onto the person level file.

DATE EXECUTED: 03/25/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#5413.DAF22.SDRF.PRDLIB(LIMDMG)

INCLUDED PROGRAMS: N/A

INPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.DMG (N=38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.$4671.DAF22.APP.NUM.SA.V1(NSS5) (N= 80,804,389) (SAS File Format)
OPDR.TG.PRD.ETTW.$4671.DAF22.APP.NUM.SA.V1(NDTH) (N= 3,482,616) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LDMG.SA (N=38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LNSS5.SA (N= 80,804,389) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LNDTH.SA (N= 3,482,616) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#5413.DAF22.SDRF.LIMNUM

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 00 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 6:

PURPOSE: Download the limited DMG, limited Numident NSS5 and limited Numident NDTH files from the mainframe to the ARC.

DATE EXECUTED: 04/10/2024

MAIN PROGRAM: 06_Dwnld_NUMIDENT_for_SDRF.sas

INCLUDED PROGRAMS: N/A

INPUT(S):
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LDMG.SA (N=38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LNSS5.SA (N= 80,804,389) (SAS File Format)
OPDR.TG.PRD.ETTW.#5413.DAF22T.SDRF.LNDTH.SA (N= 3,482,616) (SAS File Format)

OUTPUT(S):
A:\DAF22_Full_Test\SDR_Applications\Data\DMG_LIM.sas7bdat (N=38,202,693) (SAS File Format)
A:\DAF22_Full_Test\SDR_Applications\Data\NUM_LNSS5.sas7bdat (N= 80,804,389) (SAS File Format)
A:\DAF22_Full_Test\SDR_Applications\Data\NUM_LNDTH.sas7bdat (N= 3,482,616) (SAS File Format)

LOG: 06_Dwnld_NUMIDENT_for_SDRF_04102024.log

APPROXIMATE PROCESSING TIME: n/a

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 7:

PURPOSE: To merge the limited DMG, limited Numident NSS5 and limited Numident NDTH onto the person-level analytic file.

DATE EXECUTED: 04/11/2024

MAIN PROGRAM: 07_Merge_DMG_NUMIDENT.sas

INCLUDED PROGRAMS: 07a_labels.sas

INPUT(S):
A:\DAF22_Full_Test\SDR_Applications\Data\PERSON_LEVEL_FILE.sas7bdat (N=22,310,679) (SAS File Format)
A:\DAF22_Full_Test\SDR_Applications\Data\DMG_LIM.sas7bdat (N=38,202,693) (SAS File Format)
A:\DAF22_Full_Test\SDR_Applications\Data\NUM_LNSS5.sas7bdat (N= 80,804,389) (SAS File Format)
A:\DAF22_Full_Test\SDR_Applications\Data\NUM_LNDTH.sas7bdat (N= 3,482,616) (SAS File Format)

OUTPUT(S):
A:\DAF22_Full_Test\SDR_Applications\Data\SDR_PersnLvl_Numi.sas7bdat (N=22,310,679) (SAS File Format)

LOG: 07_Merge_DMG_NUMIDENT_04112024.log

APPROXIMATE PROCESSING TIME: n/a

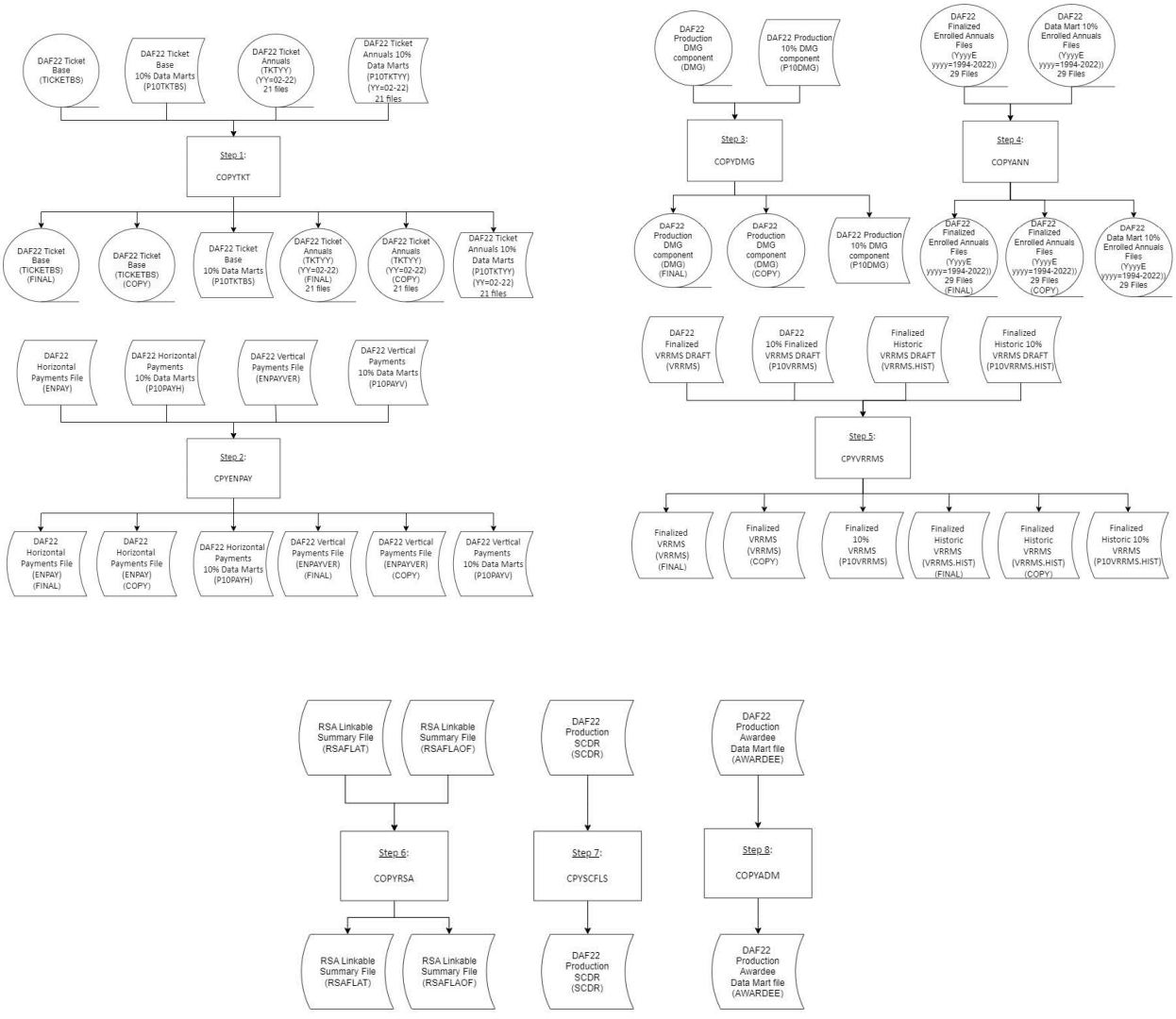
QA:

- 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

SSA Contact Staff:
NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Task DAF. Deliver DAF



Task No.: XX	**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: 02/06/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(COPYTKT)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKETBS (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10TKTBS (N= 2,918,428) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.TICKETyy, yy=02-22 (N= 29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW..DAF22D.P10TKTyy, yy=02-22 (N= 2,918,428) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22C.TICKETBS (N=29,215,980)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKETBS (N=29,215,980)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10TKTBS (N=2,918,428)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKETyy, yy=02-22 (N=29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.TICKETyy, yy=02-22 (N=29,215,980) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10TKTyy, yy=02-22 (N=2,918,428) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.COPYTKT

APPROXIMATE PROCESSING TIME: 13 hours 29 minutes 58 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: 02/06/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(CPYENPAY)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.ENPAY (N=130,092) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10PAYH (N=12,962) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.ENPAYVER (N=1,517,051) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10PAYV (N=151,286) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.ENPAY (N=130,092) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.ENPAY (N=130,092) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10PAYH (N=12,962) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.ENPAYVER (N=1,517,051) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.ENPAYVER (N=1,517,051) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10PAYV (N=151,286) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.CPYENPAY

APPROXIMATE PROCESSING TIME: 00 hours 00 minutes 41 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: 02/07/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(COPYDMG)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.DMG.SA(N= 38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10DMG (N= 3,816,476) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.DMG (N=38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.DMG (N=38,202,693) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.P10DMG (N= 3,816,476) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.COPYDMG

APPROXIMATE PROCESSING TIME: 01 hours 10 minutes 14 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:

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(COPYANN)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.YyyyyE (yyyy=1994-2022) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.YyyyyE (yyyy=1994-2022) (N = see Enrolled 10% below) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.YyyyyE (yyyy=1994-2022) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.YyyyyE (yyyy=1994-2022) (N = see Enrolled below) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22D.YyyyyE (yyyy=1994-2022) (N = see Enrolled 10% below) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.COPYANN

APPROXIMATE PROCESSING TIME: 25 hours 47 minutes 38 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	9,594,676	958,370
1995	10,795,186	1,077,938
1996	11,933,520	1,191,248
1997	12,576,078	1,254,655
1998	13,006,407	1,298,283
1999	13,422,723	1,339,808
2000	13,858,460	1,383,225
2001	14,357,862	1,433,417
2002	14,996,025	1,497,686
2003	15,578,434	1,556,254
2004	16,106,896	1,608,732
2005	16,625,913	1,660,522
2006	17,107,491	1,708,413
2007	17,575,489	1,755,690
2008	18,106,235	1,808,715
2009	18,746,691	1,872,936
2010	19,258,475	1,923,075
2011	19,708,546	1,969,153
2012	20,049,480	2,003,563
2013	20,201,864	2,018,653
2014	20,214,434	2,020,482
2015	20,170,416	2,015,886
2016	20,045,783	2,003,430
2017	19,838,471	1,982,200
2018	19,553,561	1,953,448
2019	19,218,399	1,919,967
2020	18,754,956	1,873,867
2021	18,068,960	1,805,901
2022	17,248,952	1,724,065

Step 5

PURPOSE: Copy the finalized VRRMS files.

DATE EXECUTED: 02/06/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(CPYVRRMS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.VRRMS (N = 79,459) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.VRRMS.HIST (N = 248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS (N = 7,909) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS.HIST (N = 24,894) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS (N = 79,459) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.VRRMS.HIST (N = 248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.VRRMS (N = 79,459) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22C.VRRMS.HIST (N = 248,321) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS (N = 7,909) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22D.P10VRRMS.HIST (N = 24,894) (SAS File Format)

LOG:
OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.CPYVRRMS

APPROXIMATE PROCESSING TIME: 00 hours 00 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 6

PURPOSE: Copy the RSAFLAT files .

DATE EXECUTED: 03/14/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(COPYRSA)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.RSAFLAT (N = 2,331,306) (SAS File Format)
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.RSAFLAOF (N = 8,554,779) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.RSAFLAT (N = 2,331,306) (SAS File Format)
OPDR.TG.PRD.ETTW.FINAL.DAF22P.RSAFLAOF (N = 8,554,779) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.COPYRSA

APPROXIMATE PROCESSING TIME: 00 hours 01 minutes 58 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 SCDR files.

DATE EXECUTED: 04/01/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(CPYSCFLS)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.SCDR (N = 38,202,693) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22P.SCDR (N = 38,202,693) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.CPYSCFLS

APPROXIMATE PROCESSING TIME: 00 hours 13 minutes 59 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 8

PURPOSE: Copy the finalized ADM files.

DATE EXECUTED: 04/01/2024

MAIN PROGRAM: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.PRDLIB(COPYADM)

INCLUDED SAS PROGRAM(S): N/A

INPUT(S):
OPDR.TG.PRD.ETTW.DRAFT.DAF22P.AWARDEE (N = 28,946,028) (SAS File Format)

OUTPUT(S):
OPDR.TG.PRD.ETTW.FINAL.DAF22D.AWARDEE (N = 28,946,028) (SAS File Format)

LOG: OPDR.TG.PRD.ETTW.#6502.DAF22.DLVR.COPYADM

APPROXIMATE PROCESSING TIME: 00 hours 48 minutes 28 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:

NAME: Christopher D. Earles
PHONE: (410) 966-0864
EMAIL: Christopher.D.Earles@ssa.gov

Mathematica Inc.

Our employee-owners work nationwide and around the world.

Find us at mathematica.org and edi-global.com.