



READACCT-jcl-0.4.4

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Documentation

1. Overview

1.1. Purpose And Functionality

The primary purpose of this JCL script is to read data from an Account Master VSAM file and create three different output files. The script is designed to perform the following specific tasks:

1. Delete any existing output files to ensure clean processing.
2. Execute a COBOL program (CBACT01C) that reads the Account Master VSAM file.
3. Generate three new output files with different record formats:
 - A fixed-block (FB) file with account data
 - A fixed-block (FB) file with array data
 - A variable-block (VB) file with account data

These operations are performed within the mainframe system, likely as part of a larger account data processing or reporting workflow.

1.2. Job Structure

The JCL script is structured as follows:

1. JOB Statement:

- Job name: READACCT
- Parameters: REGION=8M, CLASS=A, MSGCLASS=H, NOTIFY=&SYSUID

2. EXEC Statements:

- PREDEL: Executes IEFBR14 for pre-deletion of files
- STEP05: Executes the custom program CBACT01C

3. DD Statements:

For PREDEL step:

- DD01, DD02, DD03: Define datasets to be deleted

For STEP05:

- STEPLIB: Specifies the load library containing CBACT01C
- ACCTFILE: Defines the input VSAM KSDS file
- OUTFILE: Defines the output fixed-block file for account data
- ARRYFILE: Defines the output fixed-block file for array data
- VBRFILE: Defines the output variable-block file
- SYSOUT and SYSPRINT: Define output for system messages

The structure includes a pre-deletion step followed by the main processing step, with appropriate input and output file definitions.

1.3. Parameters And Arguments

Important parameters and arguments used in the JCL script include:

1. Job Parameters:

- REGION=8M: Allocates 8 megabytes of memory for the job
- CLASS=A: Specifies the job class
- MSGCLASS=H: Defines the output class for system messages
- NOTIFY=&SYSUID: Notifies the submitting user upon job completion

2. Dataset Parameters:

- DISP=(MOD,DELETE,DELETE): Used in PREDEL step to ensure deletion of existing files
- DISP=(NEW,CATLG,DELETE): Used in STEP05 to create new output files
- DCB parameters for output files:
 - LRECL: Specifies record length (107 for OUTFILE, 110 for ARRYFILE, 84 for VBRCFILE)
 - RECFM: Defines record format (FB for fixed-block, VB for variable-block)
 - DSORG=PS: Specifies physical sequential organization
 - BLKSIZE=0: Allows system-determined optimal block size

3. Space Allocation:

- UNIT=SYSAD: Specifies the unit type for output files
- SPACE=(CYL,(1,2),RLSE): Allocates 1 primary and 2 secondary cylinders, with unused space release

These parameters and arguments control job execution, file handling, and resource allocation throughout the script.

2. Step Information

2.1. PREDEL

2.1.1. Job Step Purpose

This job step is responsible for deleting existing datasets before the main processing begins. It serves as a cleanup step to ensure that the subsequent steps have a clean slate to work with.

2.1.2. Program Name

IEFBR14

2.1.3. Exec Statement Details

The EXEC statement used in this step is:

```
//PREDEL EXEC PGM=IEFBR14
```

Key components:

- PGM=IEFBR14: Specifies the program to be executed, which is the IBM utility IEFBR14.

2.1.4. Job Step Capabilities

IEFBR14 is a utility program that does nothing except return with a completion code of zero. It's commonly used for allocation and deallocation of datasets. In this case, it's being used to delete existing datasets.

2.1.5. Dataset Usage

This step includes three DD statements:

1. DD01:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.PSCOMP
- Disposition: (MOD,DELETE,DELETE)

2. DD02:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.ARRYPS
- Disposition: (MOD,DELETE,DELETE)

3. DD03:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.VBPS
- Disposition: (MOD,DELETE,DELETE)

All three datasets are being deleted if they exist. The MOD,DELETE,DELETE disposition ensures that if the datasets exist, they will be deleted, and if they don't exist, no action is taken.

2.1.6. Input Information

This step does not require any specific inputs. It's designed to delete existing datasets, so it operates based on the presence or absence of the specified datasets.

2.1.7. Output Information

The output of this step is the deletion of the specified datasets if they exist. No new datasets are created. The main result is a clean environment for the subsequent steps to work with.

2.1.8. Error Handling

IEFBR14 always returns a completion code of zero, regardless of whether the datasets were successfully deleted or not. This means that even if a dataset doesn't exist or can't be deleted for some reason, the job will continue to the next step. There are no specific error handling mechanisms in place for this step.

2.2. STEP05

2.2.1. Job Step Purpose

This job step is responsible for reading the Account Master VSAM file and creating three output files with different formats.

2.2.2. Program Name

CBACT01C

2.2.3. Exec Statement Details

The EXEC statement used in this step is:

```
//STEP05 EXEC PGM=CBACT01C
```

Key components:

- PGM=CBACT01C: Specifies the custom program to be executed.

2.2.4. Job Step Capabilities

The program CBACT01C appears to be a custom-written program designed to read data from a VSAM file and create three different output files. While the exact details of its functionality are not provided, based on the DD statements, we can infer that it reads from an account master file and creates three different formatted outputs.

2.2.5. Dataset Usage

This step includes several DD statements:

1. STEPLIB:

- Dataset Name: AWS.M2.CARDDEMO.LOADLIB
- Disposition: SHR (Shared)
- Purpose: Specifies the library containing the CBACT01C program

2. ACCTFILE:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.VSAM.KSDS
- Disposition: SHR (Shared)
- Purpose: Input VSAM KSDS file containing account data

3. OUTFILE:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.PSCOMP
- Disposition: (NEW,CATLG,DELETE)
- DCB: LRECL=107, RECFM=FB, DSORG=PS, BLKSIZE=0
- Space: CYL,(1,2),RLSE
- Purpose: Output file for processed account data

4. ARRYFILE:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.ARRYPS
- Disposition: (NEW,CATLG,DELETE)
- DCB: LRECL=110, RECFM=FB, DSORG=PS, BLKSIZE=0
- Space: CYL,(1,2),RLSE
- Purpose: Output file for array-formatted account data

5. VBRCFILE:

- Dataset Name: AWS.M2.CARDDEMO.ACCTDATA.VBPS
- Disposition: (NEW,CATLG,DELETE)
- DCB: LRECL=84, RECFM=VB, DSORG=PS, BLKSIZE=0
- Space: CYL,(1,2),RLSE
- Purpose: Output file for variable-block formatted account data

6. SYSOUT and SYSPRINT:

- Both directed to SYSOUT=*
- Purpose: For capturing system messages and program output

2.2.6. Input Information

This step expects input from the VSAM KSDS file specified in the ACCTFILE DD statement (AWS.M2.CARDDEMO.ACCTDATA.VSAM.KSDS). This file likely contains the account master data that will be processed and reformatted.

2.2.7. Output Information

This step produces three output files:

1. AWS.M2.CARDDEMO.ACCTDATA.PSCOMP: A fixed-block file with LRECL=107
2. AWS.M2.CARDDEMO.ACCTDATA.ARRYPS: A fixed-block file with LRECL=110
3. AWS.M2.CARDDEMO.ACCTDATA.VBPS: A variable-block file with LRECL=84

These files contain the processed account data in different formats. The exact content and structure of these files would depend on the logic implemented in the CBACT01C program.

2.2.8. Error Handling

There are no explicit error handling mechanisms specified in the JCL for this step. Error handling would likely be implemented within the CBACT01C program itself. Any error messages or program output would be directed to the SYSOUT and SYSPRINT DD statements, which are both directed to the job's output.

3. Utilities Information

3.1. IEFBR14

3.1.1. Utility Description

IEFBR14 is a system utility program that performs no operation. It is commonly used for allocation, deallocation, or deletion of datasets.

3.1.2. Utility Usage Context

In this JCL, IEFBR14 is used in the PREDEL step to delete existing datasets before the main program execution. It attempts to delete three datasets: AWS.M2.CARDDEMO.ACCTDATA.PSCOMP, AWS.M2.CARDDEMO.ACCTDATA.ARRYPS, and AWS.M2.CARDDEMO.ACCTDATA.VBPS.

3.1.3. Utility Configurations And Parameters

The utility is executed with no specific parameters. It relies on the DD statements to perform the delete operations.

3.1.4. Utility Input

IEFBR14 does not require any input files. It operates based on the DD statements provided.

3.1.5. Utility Output

IEFBR14 does not produce any output files. Its purpose is to perform dataset operations as specified in the DD statements.

3.1.6. Utility Error Handling And Recovery

IEFBR14 typically returns a zero return code, even if the datasets to be deleted do not exist. Any errors in dataset operations would be reflected in the job log, but would not cause the job to fail.

4. Invoked Programs Information

4.1. Application Programs

4.1.1. Program Name

CBACT01C

4.1.2. Main Purpose

The main purpose of CBACT01C is to read account records from an indexed file, process the data, and write the processed information into multiple output files. It performs data transformation and generates various output formats including fixed-length records, array-structured records, and variable-length records.

4.2. System Programs

IEFBR14

4.3. Missing Programs

N/A

5. Expanded JCLCode

```
//READACCT JOB 'READACCT',REGION=8M,CLASS=A, JOB05427
// MSGCLASS=H,NOTIFY=&SYSUID
//*****
//* Copyright Amazon.com, Inc. or its affiliates.
//* All Rights Reserved.
//*
//* Licensed under the Apache License, Version 2.0 (the "License").
//* You may not use this file except in compliance with the License.
//* You may obtain a copy of the License at
//*
//* http://www.apache.org/licenses/LICENSE-2.0
//*
//* Unless required by applicable law or agreed to in writing,
//* software distributed under the License is distributed on an
//* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
//* either express or implied. See the License for the specific
//* language governing permissions and limitations under the License
//*****
//* *****
//* PRE DELETE STEP
//* *****
//PREDEL EXEC PGM=IEFBR14
//DD01 DD DSN=AWS.M2.CARDDEMO.ACCTDATA.PSCOMP,
// DISP=(MOD,DELETE,DELETE)
//DD02 DD DSN=AWS.M2.CARDDEMO.ACCTDATA.ARRYPS,
// DISP=(MOD,DELETE,DELETE)
//DD03 DD DSN=AWS.M2.CARDDEMO.ACCTDATA.VBPS,
// DISP=(MOD,DELETE,DELETE)
//* *****
//* RUN THE PROGRAM THAT READS THE ACCOUNT MASTER VSAM FILE
//* *****
//STEP05 EXEC PGM=CBACT01C
//STEPLIB DD DISP=SHR,
// DSN=AWS.M2.CARDDEMO.LOADLIB
//ACCTFILE DD DISP=SHR,
// DSN=AWS.M2.CARDDEMO.ACCTDATA.VSAM.KSDS
//OUTFILE DD DSN=AWS.M2.CARDDEMO.ACCTDATA.PSCOMP,
// DISP=(NEW,CATLG,DELETE),
// DCB=(LRECL=107,RECFM=FB,DSORG=PS,BLKSIZE=0),
// UNIT=SYSAD,SPACE=(CYL,(1,2),RLSE)
```

```
//ARRYFILE DD DSN=AWS.M2.CARDDemo.ACCTDATA.ARRYPS,  
// DISP=(NEW,CATLG,DELETE),  
// DCB=(LRECL=110,RECFM=FB,DSORG=PS,BLKSIZE=0),  
// UNIT=SYSAD,SPACE=(CYL,(1,2),RLSE)  
//VBRCFILE DD DSN=AWS.M2.CARDDemo.ACCTDATA.VBPS,  
// DISP=(NEW,CATLG,DELETE),  
// DCB=(LRECL=84,RECFM=VB,DSORG=PS,BLKSIZE=0),  
// UNIT=SYSAD,SPACE=(CYL,(1,2),RLSE)  
//SYSOUT DD SYSOUT=*  
//SYSPRINT DD SYSOUT=*
```