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MVS Job Control Language Workshop

Course Summary

Description

This course covers MVS Job Control Language for the z/OS operating system through lecture, examples, and hands-on exercises using common IBM Utility Programs. Frequent updates insure that the course addresses MVS/JCL for the latest version of the z/OS operating system. This course is 3 days, but may be extended to 4.5 with additional labs.

Topics

- MVS/JCL Overview
- MVS/JCL Syntax
- JES Statements
- JOB, EXEC, IF, ELSE, and ENDIF Statements
- The Data Definition (DD) Statement
- OUTPUT Statements
- EXPORT and SET Statements
- Generation Data Groups
- PROC, PEND
- TSO Terminal Monitor Program – IKJEFT01
- DF/SMS Utilities: IEFBR14, IEBGENER, IDCAMS, IEBCOPY, and SORT utilities
- DF/SMS Operands
- PROCs and PROC execution
- INCLUDEs and INCLUDE Groups

Audience

This course is designed for programmers, operators, and systems personnel who develop or execute applications using MVS/JCL.

Prerequisites

Before taking this course, students should have basic TSO/ISPF or IDE editing skills.

Duration

Three to four and one half days

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Course Outline

I. MVS/JCL Overview
- A. JCL statements
- B. JOB streams
- C. Procedures (PROCS)
- D. Include Groups

II. JCL Syntax
- A. Identification and Name fields
- B. Operation field
- C. Operands and continuation
- D. Comments
- E. Sequence Numbers and ISPF

III. JES statements
- A. JES2
  1. JOBPARM, ROUTE, XEQ
- B. JES3
  1. MAIN and ROUTE

IV. JOB statement
- A. Positional operands
  1. Account and Programmer name
- B. Keyword operands
  1. CLASS, MSGLEVEL, MSGCLASS
  2. NOTIFY, REGION, UJOBCORR
  3. TYPRUN, RESTART, USER, SCHENV
  4. JOBRC, COND, TIME

V. EXEC Statement
- A. The IEFBR14 Utility
- B. Positional operands
  1. PGM, PROC
- C. Keyword operands
  1. PARM, PARMDD, REGION, TIME
  2. COND

VI. IF…THEN, ELSE, and ENDIF
- A. Operators
- B. Relational keywords
- C. COND= and IF equivalents

VII. DD Statements (Data Definition)
- A. Link between programs and JCL
  1. COBOL, REXX
  2. Compile and Link (binder) JCL
- B. TSO Terminal Monitor Program (TMP) – IKJEFT01
- C. The IEBGENER Utility
- D. Assigning input or output to a NULLFILE
- E. In-stream data inputs
- F. SYSOUT (system printer output) and refer-back
- G. SYMBOL - JES2 System and Dynamic Symbols

VIII. OUTPUT statements
- A. OUTPUT operand for the DD statement

IX. Data set definition
- A. DISP, DSN, and refer-back
  1. Temporary data sets
  2. Partitioned data set members
- B. UNIT, DCB and common attributes
- C. SPACE and SAPCE Abends
- D. IEFBR14 utility - delete
- E. IDCAMS utility - delete

X. EXPORT (JES2) statement
- A. Sharing symbolics with in-stream inputs

XI. SET statement
- A. Assigning symbolics

XII. Generation Data Groups
- A. The IDCAMS utility – Define GDG
- B. ISPF VSAM Utilities option

XIII. Data set concatenation with DD statements

XIV. DFSMS Utilities
- A. IEBCOPY
- B. SORT

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Course Outline (cont'd)

XV. Additional DD operands
- A. DFSMS
  - 1. General
    - a) MGMTCLAS, STORCLAS, DATACLAS
    - b) AVGREC, DSNTYPE, LIKE, REFDD
  - 2. UNIX
    - a) FILEDATA, PATH, PATHMODE, PATHOPTS
  - 3. VSAM
    - a) RECORG, KEYLEN, KEYOFF, etc.
  - 4. RACF
    - a) SECMODEL

XVI. Tape data set DD operands
- A. UNIT, VOL, LABEL

XVII. Special DD names
- A. SYSIN generated statement
- B. JOBLIB
- C. STEPLIB
- D. CEEDUMP, SYSABEND, SYSUDUMP, SYSMDUMP

XVIII. JCL Procedures
- A. PROC limitations
- B. Cataloged versus In-stream PROC
- C. PROC and PEND Statements
- D. Symbolics
  - 1. On PROC statement
  - 2. On EXEC statements
- E. PROC override statements in a JOB

XIX. JCLLIB Statement
- A. Defining a user PROCLIB and executing PROCs

XX. INCLUDE Statement
- A. Creating INCLUDE members with SYMBOLICS