JCL Fundamentals

CDT050

This course uses over fifty hands-on examples of increasing complexity to teach the student the key points of MVS JCL. A number of utilities are used to illustrate the most important aspects of the JOB, EXEC, and DD cards. Topics include JOB card, EXEC card, DD card (including DSN, DISP, UNIT, SPACE, and DCB), instream data, partitioned data sets, temporary and catalogued sequential data sets, and catalogued procedures.

Audience
- Production personnel
- Programmers
- Systems analysts

Prerequisites
- Knowledge of TSO/ISPF
- We also recommend completion of our computer based training JCL course

Course Length
- Three days

Learning Objectives
- Be able to code JOB, EXEC, and DD statements
- Acquire the skills to design and code jobstreams
- Learn elementary use of IBM utilities

Teaching Methods
- Lecture with hands-on examples
- Supplemental hands-on exercises

Course Outline *QC1*

What is JCL?
- JOB, EXEC, DD cards
- Allocating a JCL library

The JOB card
- The JOB card
- Keyword vs. positional parameters
- Parameters vs. subparameters
- A simple job
- An SDSF primer

The EXEC card
- Stepname
- PROC vs. PGM
- COND parameter

Finding errors
- TYPRUN=SCAN
- User abend vs. system abend
- Common abends

The DD card
- DDNAME
- Data set name
- DISP
- UNIT
- SPACE
- DCB

Getting input
- From instream data
- From a member of a PDS
- From a catalogued disk data set
- Concatenated input

Writing output
- To a report (print queue)
- To a member of a PDS
- To a temporary data set
- To a catalogued data set
- Permissive delete with IEFBR14 & IDCAMS
- Creating ASCII output with OPTCD

SPACE
- UNIT=VIO vs. SYSDA
- Track vs. cylinder
- Calculating space requirements
- Directory blocks
- Record format (RECFM)
- Record length (LRECL)
- Blocksize (BLKSIZE)

Catalogued procedures
- Introducing symbolics with SET
- Creating a PROC library
- The JCLLIB card
- PROC overrides

Utilities used throughout the course
- IEFBR14
- IEBGENER
- IEBPTPCH
- IDCAMS
- SYNCSORT
- FILEAID