

JCL - OVERVIEW

When to use JCL

JCL is used in a mainframe environment to act as a communication between a program. Example: COBOL, Assembler(PL/I) and the operating system. In a mainframe environment, programs can be executed in batch and online mode. Example of a batch system can be processing the bank transactions through a VSAM VirtualStorageAccessMethod file and applying it to the corresponding accounts. Example of an online system can be a back office screen used by staffs in a bank to open an account. In batch mode, programs are submitted to the operating system as a job through a JCL.

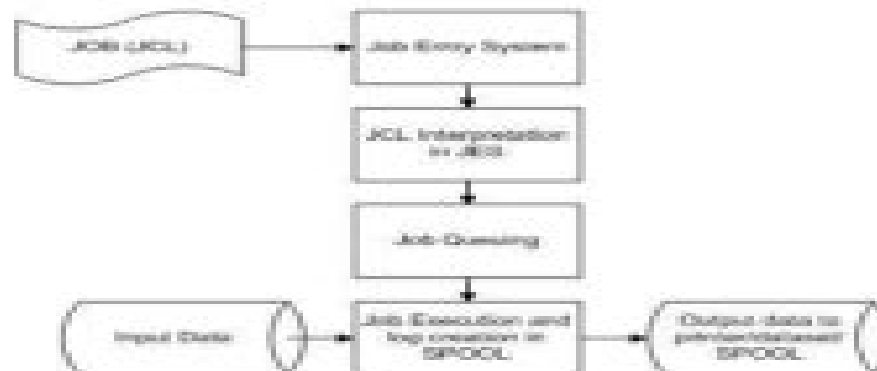
Batch and Online processing differ in the aspect of input, output and program execution request. In batch processing, these aspects are fed into a JCL which is in turn received by the Operating System.

Job Processing

A job is a unit of work which can be made up of many job steps. Each job step is specified in a job Control Language JCL through a set of Job Control Statements.

The Operating System uses **Job Entry System JES** to receive jobs into the Operating System, to schedule them for processing and to control the output.

Job processing goes through a series of steps as given below:



- **Job Submission** - Submitting the JCL to JES.
- **Job Conversion** - The JCL along with the PROC is converted into an interpreted text to be understood by JES and stored into a dataset, which we call as SPOOL.
- **Job Queuing** - JES decides the priority of the job based on CLASS and PRTY parameters in the JOB statement (explained in [JCL - JOB Statement](#) chapter). The JCL errors are checked and the job is scheduled into the job queue if there are no errors.
- **Job Execution** - When the job reaches its highest priority, it is taken up for execution from the job queue. The JCL is read from the SPOOL, the program is executed and the output is redirected to the corresponding output destination as specified in the JCL.
- **Purging** - When the job is complete, the allocated resources and the JES SPOOL space is released. In order to store the job log, we need to copy the job log to another dataset before it is released from the SPOOL.

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Zhe Xu



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zOS JCL (Job Control Language) Gary DeWard Brown, 2002-10-01 Discusses new features provided by zOS such as improved security support for Intelligent Resource Director and support for a 64 bit real storage Explains how the system configuration in zOS is made easier by a new interface that uses wizards to input desired settings [MVS/JCL](#) Olivia Carmandi, 1993 *JCL Secrets Revealed: Mastering the Mainframe's Language* Pasquale De Marco, 2025-03-07 In the vast realm of computing where the mainframe continues to reign supreme there exists a language that holds the key to unlocking its immense power Job Control Language JCL This comprehensive guide to JCL is meticulously crafted to unveil the intricacies of this venerable language empowering readers to harness the full potential of the mainframe and drive their organizations towards success With a focus on practical applications and real world scenarios this book delves into the depths of JCL providing readers with the knowledge and skills to navigate its complexities and harness its capabilities From the fundamentals of JCL syntax and structure to advanced concepts such as job and step processing data manipulation techniques and performance tuning this guide covers it all Furthermore this book recognizes the evolving landscape of information technology dedicating chapters to JCL's role in cloud and virtualized environments It examines the impact of emerging technologies such as artificial intelligence and machine learning on JCL providing readers with insights into the future of this venerable language Whether you are a seasoned mainframe professional seeking to enhance your JCL proficiency or a newcomer eager to unravel the secrets of this enigmatic language this book is your trusted companion Its comprehensive coverage clear explanations and practical examples will guide you on a path to JCL mastery empowering you to unlock the full potential of the mainframe and drive your organization towards success

Key Features Comprehensive coverage of JCL from basic concepts to advanced techniques Practical examples and real world scenarios to illustrate JCL's applications In depth exploration of JCL's role in cloud and virtualized environments Insights into the future of JCL in the era of emerging technologies A valuable resource for mainframe professionals programmers and system administrators Embrace the power of JCL and unleash the full potential of the mainframe This comprehensive guide will equip you with the knowledge and skills to navigate the complexities of JCL optimize performance and drive innovation in your organization If you like this book write a review *Cornell MVS User's Guide*, 1987 [Update](#), 1987 [ISPF Programmer's Guide](#) Franz Lanz, 2015-11-13 This book is intended to support ISPF application programmers to become professional in the smart programming of ISPF applications using the REXX language The contents are presented in a modular manner to suit reading with heterogeneous ISPF programming knowledge The following topics are covered Introduction to the programming language REXX as well as to ISPF programming data processing in ISPF applications use of messages panels skeletons tables ISPF variables and an introduction to creating and applying edit macros Each theme is vividly illustrated by programming examples The Smart ISPF Utilities contain some very useful programming aids that are often useful when programming ISPF

applications The book serves as a textbook as well as a manual for daily work Many cross references are included as well as an extensive index Moreover the author gives many helpful hints and tips on smart ISPF programming practices The Smart ISPF Utilities contain many useful programming aids **Computerworld** ,1980-10-13 For more than 40 years

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Version 3.0 User's Guide ,1994

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Ibm Mainframe Jcl Manual**

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