

VSAM/IDCAMS Utility

Course Summary

Description

This workshop covers VSAM architecture, IDCAMS utility commands, and accessing and updating VSAM files from COBOL II programs plus appropriate JCL. The participant will create and process KSDS, ESDS, and optionally RRDS VSAM datasets.

Objectives

At the end of this course, students will be able to:

- Describe the architecture of the ESDS, KSDS, and RRDS VSAM data files and list tuning and performance considerations.
- Code the control statement(s) and JCL associated with the IDCAMS utility.
- Write COBOL programs that access and update VSAM files using sequential, dynamic, and random access techniques.

Topics

- VSAM Overview
- VSAM Architecture
- VSAM/IDCAMS Utility

Audience

This course is designed for application developers and analysts. The first two days are appropriate for technical support, and operations personnel.

Prerequisites

Participants must be able to code basic JCL statements, use the edit and submit facilities of TSO, and code simple COBOL programs.

Duration

Three days

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Course Outline

I. VSAM Overview

- A. Objectives
- B. History
- C. Books
- D. VSAM

II. VSAM Architecture

- A. VSAM Organizations
- B. Advantages of VSAM
- C. KSDS
- D. KSDS Index
- E. KSDS Access
- F. ESDS
- G. RRDS
- H. Record Storage
- I. Dataset Components
- J. Control Interval
- K. Control Area
- L. Data Storage
- M. Terminology
- N. Comparison

III. VSAM/IDCAMS Utility

- A. IDCAMS Overview
- B. JCL for IDCAMS
- C. Command Language Structure
- D. Command Examples
- E. Condition Codes
- F. Modal Commands and Examples
- G. Functional Commands
- H. Define Cluster
- I. Define Cluster Syntax
- J. Define ESDS Example
- K. Define KSDS Syntax
- L. Define Example
- M. LISTCAT
- N. LISTCAT Format
- O. Repro and Examples
- P. Repro with INFILE
- Q. Repro with REPLACE
- R. PRINT and Examples
- S. DELETE Command
- T. DELETE Format
- U. DELETE Examples
- V. CI, CA Split Problem
- W. Reorganization

- X. VERIFY
- Y. AIX - Alternate Indexes
- Z. DEFINE ALTERNATEINDEX
- AA. Data Record Layout
- BB. DEFINE PATH
- CC. DEFINE PATH Format
- DD. BLDINDEX Command
- EE. BLDINDEX Format and Examples
- FF. Comprehensive Example
- GG. Using Alternate Indexes
- HH. Using Commands with AIX
- II. ALTER
- JJ. ALTER Syntax