

VSAM For PL/I Programmers - Course Objectives

On successful completion of this course, the student, with the aid of the appropriate reference materials, should be able to:

1. Create and delete VSAM data sets, using Access Method Services (AMS)
2. Load VSAM data sets, using AMS REPRO or PL/I programs
3. Use the AMS PRINT command to list all or parts of a VSAM data set, and the AMS LISTCAT command to list all or part of a VSAM catalog
4. Use PL/I programs to process VSAM data sets
5. Create and use VSAM alternate indexes and paths.

VSAM For PL/I Programmers - Topical Outline

Day One

Introduction

- VSAM Space Concepts
- CI's and CA's
- ESDS, KSDS, RRDS
- RBA's
- JCL for VSAM data sets
- Catalog Hierarchy

Entry Sequenced Data Sets (ESDS) and Access Method Services (AMS)

- ESDS Characteristics
- Introduction to AMS
- DEFINE CLUSTER, REPRO, PRINT, DELETE commands
- Computer Exercise: ESDS and AMS56

Job Alternatives

- Single versus multiple steps and jobs
- JES2 vs. JES3

Key Sequenced Data Sets (KSDS)

- Sequence Set and Index Set
- Free Space
- CI splits and CA splits
- DEFINE CLUSTER for KSDS
- LISTCAT Command
- Computer Exercise: KSDS and AMS84

VSAM and PL/I: An Introduction

- Processing ESDS from PL/I
- Processing KSDS from PL/I
- Partial key requests (generic key)
- The DELETE verb in PL/I
- Condition checking
- Computer Exercise: PL/I and KSDS114

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Day Two

Alternate Indexes

AIX Concepts

DEFINE AIX, BLDINDEX, DEFINE PATH Commands

Computer Exercise: AIX and AMS.....146

Using Alternate Indexes in PL/I

Relative Record Data Sets (RRDS)

RRDS Concepts

Randomizing Algorithms

DEFINE CLUSTER for RRDS

PL/I and RRDS

Computer Exercise: Random Processing of an RRDS 173

Extra exercise:

Computer Exercise: PL/I and AIX 164