IMS Advanced Programming Techniques

Course Summary

Description

Programmers and programmer/analysts who have a basic understanding of IMS and need more efficient methods for processing databases will benefit from this course. Students will discuss operating system access methods, IMS access methods, advanced PSB and DBD options, logical relationships, secondary index processing options, and the difference between a physical and a logical database definition

Topics

- Operating System Access Methods
- IMS Access Methods
- Logical Relationships
- Secondary Indexing
- PSB and DBD Statements which Support Logical Relationships and Indexes

Audience

Programmers and programmer/analysts

Prerequisites

Experience with basic IMS techniques

Duration

One day

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Course Outline

I.   Operating System Access
   A.   ISAM
   B.   OSAM
   C.   KSDS
   D.   ESDS

II.   IMS Access Methods
   A.   Database definition
   B.   HDAM
   C.   HIDAM
   D.   GSAM
   E.   Database performance considerations

III.   Program Specification Block
   A.   PSB statements
   B.   Application control blocks

IV.   Secondary Index
   A.   Definition
   B.   Secondary index DBD
   C.   Secondary index options
   D.   Appropriate applications

V.   Logical Relationships
   A.   Definition
   B.   Unidirectional
   C.   Bidirectional
   D.   Maintenance rules
   E.   Guidelines

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