ProTech Professional Technical Services, Inc.

IMS HALDB (High Availability Large Data Base)

Course Summary

Description

This course is designed to provide you with the skills necessary to design, implement, migrate, and maintain IMS HALDB databases. Upon completion, you should be able to describe the structure of HALDB, install and migrate to HALDB, and use and maintain HALDB.

Topics

- HALDB Overview
- Structure: partitions, pointers, self-healing pointer implementation
- Naming conventions
- HALDB Definition:
- Partition & Data Set Definitions
- Partition Selection
- HALDB Utilities
- Migration considerations
- Administration

Audience

Information Technology professionals (database administrators, application programmers & designers, and production support personnel) who are responsible for implementing and maintaining IMS HALDB databases.

Prerequisites

Working knowledge of the IMS databases (HIDAM, HDAM, Secondary Indexes, Logical Relationships), VSAM and OSAM access methods, and DBRC as obtained by on the job work or attending IMS FUNDAMENTALS and IMS DBRC; programming experience is not required.

Duration

One day

Course Outline

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Course Outline

I. *HALDB Overview*
  A. What is it
  B. Benefits
  C. Highlights
  D. Support

II. *Structure: partitions, pointers, self-healing pointer implementation*
  A. New pointers
  B. New prefixes
  C. Self-healing

III. *Naming conventions*

IV. *HALDB Definition:*
  A. DBD changes
  B. DBD / SEGM / LCHILD examples
  C. PHDAM / PHIDAM / INDEXED
  D. Partition secondary index
  E. Exit routines

V. *Partition & Data Set Definitions*
  A. DBRC commands
  B. DBRC records
  C. System Definition
  D. Database buffers
  E. Dynamic allocation

VI. *Partition Selection*
  A. Key range
  B. PS Exit routine

VII. *HALDB Utilities*
  A. Partition Definition Utility
  B. Partition Data Set Initialization
  C. HALDB Index/ILDS Rebuild
  D. HALDB Migration Aid
  E. HALDB ALTER Utility

VIII. *Migration considerations*
  A. Pointers
  B. Structure
  C. Primary index
  D. Secondary index
  E. Logical relationship
  F. Miscellaneous operations
  G. Application considerations

IX. *Administration*
  A. Considerations
  B. Backup and Recovery
  C. Reorganizations
  D. Changing Partitions
  E. Test Databases
  F. Secondary Index
  G. Performance