Advanced CICS Programming

CDT502

This course covers the following topic areas: Task Management, Linkage Section, BMS techniques, Interval Control, VSAM, Restart/Recovery and Intersystem Communication.

Audience

- This course is designed for programmers, programmer/analysts, systems analysts and other individuals who require an advanced course in CICS application programming

Course Length

- Five Days

Prerequisites

- CICS Programming Workshop or at least 6 months experience with CICS Application Programming

Teaching Methods

- Several computer exercises are assigned to reinforce text materials.

Course Outline

WB3

Task Management
- Terminal-Initiated Tasks
- Automatic Task Initiation
- START Command
- Storage Management

Linkage Section Considerations
- The COBOL Load Module
- Base Locator for Linkage Cells
- SET option
- ADRESS
- ASSIGN
- GETMAIN
- FREEMAIN

BMS Techniques
- Multi-page Browse
- BMS-Managed Browse
- Sending data to a Printer
- ROUTE
- Printer output using Intrapartition Transient Data Queues
- Pseudo-Conversational Techniques using BMS

Interval Control
- START
- RETRIEVE
- ASKTIME
- FORMATTIME
- Posting to an ECB: POST
- WAIT EVENT

VSAM in the CICS Environment
- VSAM Management in CICS
- Avoiding Deadlocks
- Update synchronization
- Alternate Indexes

Restart/Recovery
- Restarting a CICS System
- Emergency Restart Definitions
- Keypointing in CICS
- Dynamic Transaction Backout
- SYNCPOINT

Intersystem Communication
- Function Request Shipping
- Asynchronous Processing
- Transaction Routing
- Distributed Transaction Processing
- EIB Fields of Interest
- Exceptional Conditions

Terminal Control
- SEND
- RECEIVE

File Control
- Random processing
- Browsing

Day Two: Afternoon

Case Study I

Day Three: Morning

Abend Recovery

Basic Mapping Support
- Symbolic Maps
- Physical Maps
- BMS Macros
- Attribute Byte Manipulation
- SEND MAP
- Symbolic Cursor Positioning
- RECEIVE MAP

Day Three: Afternoon

- **Case Study II**

Day Four: Morning

Temporary Storage Queues
- READQ TS
- WRITEQ TS
- DELETEQ TS

Transient Data Queues
- Intrapartition vs. Extrapartition
- READQ TD
- WRITEQ TD
- DELETEQ TD

Afternoon

Case Study III

Day Five: Morning

Journal Control
- Purpose of Journals
- WRITE JOURNAL

Debugging Overview
- CICS TRACE
- DUMP
- EDF

Case Study IV

Day Five: Afternoon

Case Study IV, continued