

Advanced CICS Programming Workshop Course Summary

Description

This course teaches how to design and code complex CICS applications. It covers the following topics menu-driven applications, temporary storage and transient data queues, transferring data using the CICS/JES spool interface, memory management, locate and move modes, field-level help, accessing system information, channels and containers, logical unit of work, and eBusiness with CICS.

Topics

- Overview
- Storage Control
- Browsing Files
- Paging Transactions
- CICS/JES interface
- Field-Level help
- Accessing System Information
- Syncpointing
- Channels and containers
- eBusiness with CICS

Audience

This course is designed for programmers involved in writing/supporting complex CICS programs .

Prerequisites

It is assumed the participant is familiar with CICS basics and is capable of writing simple CICS programs. The participant should already be familiar with CICS command format, pseudo-conversational design, menu processing, main stream CICS commands such as LINK, XCTL, RETURN, SEND, RECEIVE.

Duration

Five Days

Advanced CICS Programming Workshop Course Outline

I. Overview

- A. This module discusses various types of transactions, their coding particularities, and programming for performance. It also provides an overview of the product's functional areas namely transaction processing, inter-system communication, front-end programming interface, system programming interface and external CICS interface. By the end of this module, the participant will have acquired an awareness of the product's capabilities and will be in a better position to decide how a particular business problem is to be solved.

II. Storage Control

- A. This topic discusses various ways in which an application programmer can control and manage storage in a CICS application, how to obtain and access storage, COBOL Linkage Section issues. The lab on Storage Control will help understand differences between the "LOCATE" and "MOVE" modes in CICS.

III. Browsing Files

- A. This module reviews the facilities provided by File Control Program. Browsing commands are discussed along with various advanced programming techniques. The lab is about developing a lock mechanism to protect a record being updated across a pseudo-conversational transaction.

IV. Paging Transactions

- A. Temporary Storage facilities and concepts are the main focus of discussion. Revision of techniques used in coding paging transactions that are efficient and easy to use. The lab provides an opportunity to experiment with browsing and terminal paging.

V. Cics/Jes Interface

- A. This module describes the CICS/JES interface and how it can be used to print reports or transfer data.

VI. Field-Level Help

- A. This module addresses programming techniques used to make programs sensitive to the position of the cursor on the screen. It discusses the BMS functions that are used in making this task possible.

VII. Accessing System Information

- A. This module discusses the ASSIGN command and the values it can return. It also discusses some of the CICS commands used to manage resources and the use of CICS data values (CVDA). The exercise will give the programmer the opportunity to use both approaches.

VIII. Syncpointing

- A. This new CICS function is aimed at replacing CICS COMMAREAS and TRANSACTION WORK AREAS. This chapter discusses the programming interface and design considerations when using CHANNELS and CONTAINERS

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X. eBUSINESS with CICS

- A. This module provides an overview of the CICS facilities that can be used to support eBusiness, specifically 3270 bridge support, webservices and CICS XML support,