

CICS/TS for System Programmer

Course Summary

Description

The “CICS/TS for System Programmer” is geared towards technical staff new to the CICS/TS environment. In this course, the participant will learn how a CICS/TS system is put together: resource definitions, system utilities both online and offline, System Initialization tables, CICS/TS JCL, system datasets are subjects covered in depth in this course. We also discuss CICS storage management, CICS/TS communications and CICS/TS customization. At the end of this class, the attendee will have been exposed to almost everything that goes on in a CICS/TS address space

Topics

- CICS/TS Overview
- Resource Definitions
- CICS/TS System Preparation
- Externals
- Initialization & Shutdown
- CICS/TS Storage
- CICS/TS Communication
- Online Tools
- CICS/TS Offline Utilities
- CICS/TS Customization

Audience

This course is designed for anyone new to CICS/TS system programming.

Prerequisite

Students should have some knowledge of TSO/ISPF.

Duration

Five days

CICS/TS for System Programmer

Course Outline

I. CICS Overview

- A. Transaction processing within CICS
- B. How is a transaction triggered
- C. The various CICS components involved
- D. The main CICS resources that are needed in order to make this process happen
- E. Software processing involved in making transactions work in CICS
- F. CICS domains and TCB's

II. Resource Definitions

- A. Process of defining resources in CICS using both the online and offline utilities
- B. Performance issues are discussed when we cover the SIT table

III. CICS System Preparation

- A. CICS system data sets and their use
- B. Define CICS system logs and MVS logstreams

IV. Externals

- A. Changes to CICS-supplied transactions
- B. Utilities such as the Load Module scanner utility, monitoring, statistics
- C. Initialization and shutdown procedures
- D. Review of the External CICS Interface, implemented in CICS
- E. Introduction to RRMS services provided by z/OS

V. Initialization & Shutdown

- A. Initialization and shutdown processes
- B. Various types of START parameters
- C. DFHRMUTL utility used to modify the type of startup CICS will be doing

VI. CICS Storage

- A. Storage management in CICS
- B. Various page pools (DSA's)
- C. Storage protection facility and transaction isolation

VII. CICS Communication

- A. Various communications facilities available in CICS
- B. MRO, ISC, DEC support, WEB interface, 320 bridge

VIII. Online tools

- A. Various online tools available in CICS
- B. CEMT, CECI, CMAC, CEDF, CEDX

IX. CICS Offline Utilities

- A. All CICS utilities will be presented here with an opportunity to try most of them
- B. DFHSTUP, DFHJUP, DFHLGCNV, DFHMNDUP, DFHCSDUP, DFHTU7xx, DFHDU7xx, DFHEISUP, DFHBMSUP, transaction Isolation & Storage Protection,
- C. CICS on-line utilities like CETR, CEDX, and CIND

X. CICS Customization

- A. Various ways to customize CICS
- B. User-Replaceable Modules, Global User Exits and Task-Level Global exits