CICS/TS for Systems Programmers

Course Content

Course Description:
In this course, you will cover 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.

Prerequisites:
Students should have some knowledge of TSO/ISPF.

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

Topics:

Lesson 1: CICS Overview
- Transaction processing within CICS
- How is a transaction triggered
- The various CICS components involved
- The main CICS resources that are needed in order to make this process happen
- Software processing involved in making transactions work in CICS
- CICS domains and TCB's

Lesson 2: Resource Definitions
- Process of defining resources in CICS using both the online and offline utilities
- Performance issues are discussed when we cover the SIT table

Lesson 3: CICS System Preparation
- CICS system data sets and their use
- Define CICS system logs and MVS logstreams

Lesson 4: Externals
- Changes to CICS-supplied transactions
- Utilities such as the Load Module scanner utility, monitoring, statistics
- Initialization and shutdown procedures
- Review of the External CICS Interface, implemented in CICS
- Introduction to RRMS services provided by z/OS

Lesson 5: Initialization & Shutdown
- Initialization and shutdown processes
- Various types of START parameters
- DFHRMUTL utility used to modify the type of startup CICS will be doing

Lesson 6: CICS Storage
- Storage management in CICS
- Various page pools (DSA's)
- Storage protection facility and transaction isolation

Lesson 7: CICS Communication
- Various communications facilities available in CICS
- MRO, ISC, DEC support, WEB interface, 320 bridge

Lesson 8: Online tools
- Various online tools available in CICS
- CEMT, CECI, CMAC, CEDF, CEDX

Lesson 9: CICS Offline Utilities
- All CICS utilities will be presented here with an opportunity to try most of them
- DFHSTUP, DFHJUP, DFHLGCNV, DFHMNDUP, DFHCSDUP, DFHTU7xx, DFHDU7xx, DFHEISUP, DFHBMSUP, transaction Isolation & Storage Protection
- CICS on-line utilities like CETR, CEDX, and CIND

Lesson 10: CICS Customization
- Various ways to customize CICS
- User-Replaceable Modules, Global User Exits and Task-Level Global exits

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