CICS Structure & Problem Analysis

Course Summary

Description

This course is a discussion of the various types of outages that affect CICS/TS' normal execution and of the tools available to resolve them. Participant will be provided with the debugging skills that are necessary to perform very efficient problem solving.

Topics

- CICS/ESA Architecture Review
- CICS/ESA Externals
- CICS/ESA Internals
- CICS/ESA Dumps and Traces
- Problem Investigation

Audience

This course is designed for CICS system programmers and technical support specialists. Experienced application programmers could also benefit from this class providing they are receptive to the idea of having to understand CICS internal structure. We will provide the dumps. The client is also encouraged to supply some of its own dump for analysis in the classroom.

Prerequisites

Students should have experience with technical programming or CICS system programming.

Duration

Five days

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Course Outline

I. CICS/ESA Architecture Review
- A. Definable Resources
- B. Address Space
- C. TCBs
- D. Domains
- E. Domain Gates
- F. Tasks and transactions
- G. Kernel Storage
- H. Kernel Linkage
- I. KE Dump Representation
- J. API Storage

II. CICS/ESA Externals
- A. Message Formats, Destinations and Processing
- B. CICS and Non-CICS Transaction Abend Codes
- C. CICS System Abend Codes

III. CICS/ESA Internals
- A. Kernel
- B. Storage Manager
- C. Dispatcher
- D. Loader
- E. Program Manager
- F. Application Domains

IV. CICS/ESA Dumps and Traces
- A. System Dump Environment
- B. Transaction and system Dump are described and examples of each domain including new CICS/TS 1.3 domains will be shown
- C. CICS Trace and examples of the 3 trace formatting options

V. Problem Investigation
- A. Classifying the Problem
- B. Transaction Abends
- C. Investigating Waits and Loops
- D. Storage Violations