Abend-Aid

Course Summary

Description

This course is designed to aid the programmer in understanding the concepts of what cause abends and how to determine how to resolve those abends.

Topics

- MVS Debugging for COBOL programmers
- Deciphering Messages and Codes
- MVS Output
- Compiler Output
- Deciphering Abend-Aid Reports
- Samples of abends

Audience

This course is designed for COBOL programmers and operations staff that needs to decipher and correct program-related problems that occur unexpectedly.

Prerequisites

Students should have COBOL programming experience and TSO/ISPF experience.

Duration

One day

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Course Outline

I. MVS Debugging for COBOL programmers
- A. Program Debugging
- B. Debugging COBOL programs

II. Deciphering Messages and Codes
- A. System Messages
- B. System Completion Codes
- C. Internal Interrupt Completion Codes
- D. External Interruption Completion Codes
- E. Return Codes
- F. Status Codes

III. MVS Output
- A. JES2 Job Log
- B. Job Allocation, Disposition Messages and Execution Statistics

IV. Compiler Output
- A. Compile Options
- B. Source Listing
- C. Sorted cross reference
- D. Data Map
- E. Base Locator Cells
- F. Condensed Listing
- G. Memory Map
- H. Compiler Diagnostic Messages

V. Deciphering Abend-Aid Reports
- A. Description
- B. Locating the Abending Instruction
- C. Using the CLIST to locate the interrupt
- D. Pinpointing the cause of the interrupt
- E. Half-words, full-words and double-words
- F. Formatted storage dump
- G. Locating working-storage data items
- H. Locating the problem data item in the storage dump
- I. Locating data items in the record area (buffers)
- J. Other diagnostic section examples
- K. Obtaining file and record information from the DCB report
- L. Debugging loops, hangs and other unexpected results
- M. Cause of finite and infinite loops

VI. Samples of abends

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