

z/OS Debug Tool for Enterprise COBOL

Course Summary

Description

The student will acquire facility with the COBOL compiler in support of using the Debug Tool, and will also acquire facility with the Debug Tool.

Objectives

At the end of this course, students will be able to:

- Understand and discuss the capabilities of the COBOL Debug Tool
- Utilize the features of the Debug Tool to debug a COBOL program, using the commands available in the full screen mode of the Debug Tool

Topics

- Compiling for Debug Tool testing
- Debug Tool Full Screen Usage
- Debug Tool Commands
- Debugging Techniques

Audience

This course is designed for experienced COBOL programmers who are testing COBOL programs using the Debug Tool.

Prerequisites

The student entering this course should have experience coding COBOL programs, as well as experience in using ISPF/PDF, and a working knowledge of how to code JCL statements to run simple batch jobs.

Duration

Two days

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Course Outline

I. Introduction to the Debug Tool

- A. Allocation
- B. Invocation
- C. Computer Exercise: Setting up to Use the Debug Tool

II. The Session Panel

- A. Basic Commands
- B. AT/ CLEAR
- C. GO / GOTO / RUNTO / STEP
- D. LIST
- E. QUIT / QQUIT
- F. ?
- G. Computer Exercise: Introducing the Debug Tool

III. Managing the screen

- A. SCROLL
- B. PANEL
- C. Session colors
- D. Session layout
- E. Session listings
- F. Session profile control
- G. WINDOW
- H. Function keys
- I. RETRIEVE
- J. FIND

IV. Advanced breakpoints

- A. Command lists
- B. ENABLE / DISABLE
- C. TRIGGER
- D. Changing variables - MOVE, SET, COMPUTE
- E. Tracking variables - MONITOR
- F. Computer Exercise: Tailoring the screen and using advanced breakpoints

V. Debug Tool variables, expressions, and built-in functions

- A. Debug Tool procedures
- B. PROCEDURE
- C. CALL
- D. COBOL language subset commands
- E. IF
- F. EVALUATE
- G. PERFORM
- H. CALL
- I. Working with pointers
- J. %PATHCODE
- K. Computer Exercise: Using the Language Subset

VI. Session control commands

- A. SET
- B. QUERY

VII. Prefix commands

- A. AT / CLEAR
- B. DISABLE / ENABLE
- C. QUERY
- D. SHOW

VIII. Frequency counts

- A. USE
- B. Computer Exercise: Using Advanced Features

IX. Debug Tool logs and restart

- A. Miscellaneous commands
- B. PLAYBACK
- C. CLEAR
- D. Comment
- E. DESCRIBE
- F. LIST CONTAINER and LIST STORAGE
- G. ALLOCATE and FREE
- H. CHKSTGV
- I. LOAD
- J. NAMES
- K. TSO / SYSTEM
- L. Computer Exercise: Restart and miscellaneous commands

X. Debug Tool in other environments

- A. Miscellaneous issues