DUMP02   *PL/1 Dump Debugging For Application Programmers*

Course Description   This course is designed to teach the skills necessary to read, interpret and solve System Dumps involving PL/1 and Assembler programs, making use of system control blocks, register save areas, etc.

Who Should Attend   Participants should be programmers or programmer/analysts who are required to solve more complex PL/1 abends, where the formatted PLIDUMP is insufficient, or where non PL/1 programs need to be interrogated.

Pre-Requisites   Participants should have a sound knowledge of PL/1, and should already be familiar with the formatted PLIDUMP. Some Assembler background will be of great benefit but is not essential.

Duration   2 Days

Dump Debugging Overview

General Principles
Types Of Dump Format
SYSUDUMP
PLIDUMP
General dump Format
General dump Contents
PL/1 Compiler Listing Options
The Program Problem Determination Method (PPDM)

Machine & Program Architecture

The General Registers Overview
Addressing & residency modes
The PSW
Dynamic save areas
Register usage
The PL/1 Compiler Listing & Options
The Link Edit listing

The PL/1 Environment

PL/1 Block Structure
Block Entry / Termination
Dynamic Save Area Concepts
Dynamic Save Area Format
Dynamic Save Area Chaining
PL/1 Block Hierarchy
DSA Naming Techniques
Static Area Concept
Static Area Contents
The Task Communications Area

PL/1 Exceptional Condition Handling

The PL/1 Error Handler
PL/1 Exceptional Conditions
Enabling / Disabling Conditions
Trapping Conditions
Error Recovery
Producing a SYSUDUMP

Abend Categories

Program Interrupt Conditions
PL/1 Detected Conditions
Operating System Detected Conditions
Abend Reason Determination
Abend Location Determination
NOSTAE / NOSPIE Options

Locating Data

Locating Static Internal Variables
Locating Automatic Variables
Locating External Variables
Locating Parameter Variables
Locating Controlled Variables
Locating Based Variables
Locating File Information
Buffers And Records