Parallel Sysplex Overview

Course Summary

Description

This course gives an overview of IBM's new Parallel Sysplex Environment for OS/390 including why it was developed, how it works, what hardware and software it requires and how to migrate to it.

Topics

- Availability 101
- Parallel Sysplex overview
- Sysplex hardware - coupling facility, timer
- Understanding CF structures
- OS/390 Sysplex components
- Operations and recovery considerations
- Sysplex maintenance
- Parallel Sysplex exploitation: IBM products
- Sysplex-enabling your applications
- Parallel Sysplex exploitation: third party products

Audience

This is course is intended for IT personnel who are migrating to an IBM Parallel Sysplex environment. The target audience includes operators and operations management, service desk and system support technicians, and application programmers who are responsible for implementing, managing, operating, or programming for the Sysplex.

Prerequisites

The student should have a basic knowledge of OS/390 MVS concepts and terminology as taught in an MVS Skill Pack course.

Duration

Half day

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

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Course Outline

I. Availability 101
   A. Redundancy is key
   B. Availability arithmetic
   C. Availability of a system of dependent components

II. Sysplex Terminology

III. The Parallel Sysplex
   A. A Parallel Sysplex in one processor
   B. Test Sysplex configurations

IV. Sysplex Hardware Components
   A. Coupling facility
   B. Types of coupling facilities
   C. Sysplex timer - IBM 9037-001, 9037-002
   D. Sysplex timer - operator issues
   E. Sysplex timer - daylight savings
   F. ESCON channels
   G. Sysplex hardware: processors

V. What is a GeoPlex?

VI. Understanding CF Structures
   A. Understanding structure rebuild
   B. CF structure definition
   C. Changing a structure definition

VII. OS/390 Sysplex Components
   A. System logger
   B. Workload manager
   C. Automatic restart management
   D. GRS Star vs. Ring
   E. Catalog sharing
   F. VTAM generic resources

VIII. Operations & Recovery Considerations
   A. Sysplex consoles
   B. Sysplex failure management

IX. Sysplex Maintenance
   A. Rolling system maintenance philosophy
   B. Designing a set of Sysplexes
   C. Relating Sysplex to other 'Plex

X. Parallel Sysplex Exploitation: IBM
   A. DB2 data sharing and locking configurations
   B. CICS/TM and CICSPlex
   C. IMS/TM Sysplex features
   D. IMS/DB data sharing features

XI. Sysplex Enabling Your Applications

XII. Parallel Sysplex Exploitation: Third Party
   A. BMC
   B. Computer associates
   C. Software AG
   D. Oracle