ES20G

z/OS System Services Structure

Durata: 4 gg

Descrizione

This course presents the structure and control blocks of the z/OS BCP and system services. It prepares the new z/OS system programmer to identify potential bottlenecks and performance problems, perform initial error symptom gathering, and identify opportunities and requirements for tailoring a z/OS system. This course also provides prerequisite information needed for further training in specialized areas such as system measurement and tuning and system problem determination.

Objectives: •Explain the MVS functions and control blocks necessary to support a task in a multitasking and multiprocessing environment

•Describe the software and hardware functions that allow a program to interact with programs running in other address spaces, use data in other address spaces, and use data in data spaces

•Trace the flow of an I/O operation from the initial request in the application program through the completion of data transfer

•Identify the control blocks that describe the current status of an I/O request

•Describe the functions of the z/OS BCP Virtual, Real, and Auxiliary Storage Managers

•Describe the functions performed by the Recovery Termination Manager and recovery management components to minimize failure impact and enhance error correction

•Select the appropriate IBM publication to provide further technical information (SRLs, Technical Bulletins, Self-study and other z/OS courses)

•Describe the services provided by cross system extended services (XES)

•Identify and explain the purpose of the cache, list, and lock structures

•Plan the implementation of the global resource serialization STAR environment.0.2 pref

A chi è rivolto?

The primary audience for this intermediate course are z/OS system programmers who are new to z/OS installation, customization, measurement and tuning, or problem determination. Subsystem programmers will also benefit from this class.

Prerequisiti

You should be able to:

•Describe the following z/OS BCP (MVS) characteristics: •multiprocessing

•multiprogramming

•virtual storage and paging

•and multiple address space/data space architecture

•Explain how paging and swapping are accomplished through the interaction of real/central, expanded, auxiliary, and virtual storage in a z/OS system

•Explain the role of the dispatcher, interrupts, SVCs, the program manager, and serialization in managing work in a z/OS system

•State the role of z/OS software and hardware components in handling an I/O request for data on a direct access storage device

These prerequisites can be met through on the job training or completion of z/OS Facilities.

Note: A fundamental knowledge of hexadecimal notation, assembler language, and z/Architecture instruction execution will enhance your understanding of the course material. Completion of Assembler Language Coding Workshop or Assembler Language Series is recommended.

Contenuti

Day 1
   •Welcome
  •Unit 1 - z/OS system introduction
 Day 2
   •Unit 2 - Operating environment initialization
  •Unit 3 - Task management
 Day 3
   •Unit 4 - Addressability
  •Unit 5 - Input/Output supervisor
 Day 4
   •Unit 6 - Storage management
  •Unit 7 - Recovery termination manager
 Day 5
   •Unit 7 - Recovery termination manager (Continued)