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Performance Management using TMON/MVS

Course Summary

Description

This course provides the fundamentals of z/OS performance management for systems programmers and performance analysts. Specific topics will focus on using TMON/MVS functions to determine how resources are being affected and which facilities are available to assess system performance metrics.

Topics

- Performance Management Overview
- System Components of Tuning: Processor
- System Components of Tuning: Memory
- System Components of Tuning: I/O
- Workload Characterization
- Managing System Resources
- Monitoring and Tuning Systems

Audience

This course is designed for systems programmers and performance analysts using TMON/MVS that need a better understanding of performance management, performance metrics, and TMON/MVS can be used to assess performance objectives and behavior.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

Performance Management using TMON/MVS

Course Outline

I. Performance Management Overview
- A. Define elements of performance tuning
- B. Examine basic queuing models
- C. Interpret results of queuing theory models

II. System Components of Tuning: Processor
- A. Evaluate processor power ratings
- B. Examine key processor metrics
- C. Review data gathering methods for processor metrics using TMON/MVS
- D. Navigation and options available in TMON/MVS CPU management

III. System Components of Tuning: Memory
- A. Review paging/swapping mechanism
- B. Examine real, expanded, and auxiliary storage metrics
- C. Review data gathering methods for storage metrics using TMON/MVS
- D. Navigation and options available in TMON/MVS memory management

IV. System Components of Tuning: I/O
- A. Review I/O subsystem components
- B. Examine I/O metrics
- C. Review data gathering methods for I/O metrics using TMON/MVS
- D. Navigation and options available in TMON/MVS I/O management

V. Workload Characterization
- A. Review processes for grouping comparable workloads
- B. Establishing workload objectives
- C. Using TMON/MVS to assess job level performance

VI. Managing System Resources
- A. Examine Workload Manager (WLM) definitions
- B. Examination of WLM processes
- C. Review WLM results using TMON/MVS WLM displays

VII. Monitoring and Tuning Systems
- A. Diagnose various performance problems
- B. Examine tracking mechanisms available through RMF
- C. Review performance reporting and data interpretation
- D. TMON/MVS exceptions and alerts
- E. TMON/MVS Threshold Recommendation Utility