

DB207 DB2 System Performance & Tuning

- Course description** This course focuses on DB2 system tuning in order to achieve optimum performance. In doing so, the course covers the DB2 component systems and their relationships with each other, OS/390 and other OS/390 sub-systems. Students are introduced to various monitoring, measurement and reporting facilities, and are given guide-lines for interpreting the statistics produced by them.
- Who Should Attend** System Administrators, Database Administrators and System Programmers responsible for DB2 system performance monitoring & tuning.
- Pre-Requisites** Students should be familiar with those DB2 concepts covered in DB203, DB205 & DB206.
- Duration** 3 Days

DB2 / OS/390 Architecture

Hardware Architecture
OS/390 Architecture
Basic Resource Management
The SRM / WLM
Threads & Connections
Introduction to DB2PM Reports
DB2 Address Spaces
Allied DB2 Address Spaces

DB2 Instrumentation Facility

DB2PM Reports Introduction
The Accounting Reports
The Statistics Reports
DB2 Trace

Measuring & Monitoring The Workload

Number Of Threads
Work Performed By Thread
Accounting Classes
Statistics Classes

OS/390 Performance Considerations

User Address Spaces
DB2 Address Spaces
CPU Utilisation
Paging
CPU Queuing
WLM
Virtual Storage Utilisation

The DB2 System

Buffer Pools
Dataspaces
Hiper Pools
I/O Types
Prefetch
Buffer Pool Thresholds
EDM Pool
RID Pool
Sort Pool
I/O Parallelism
CPU Parallelism
Logging

IRLM, Locking & Concurrency

The IRLM
IRLMParms
Lock Attributes
Locking Parameters
Isolation Levels
Lock Contention
Lock Avoidance
Resource Limit Facility
Performance Considerations

DB2 Utilities

Utility Performance Considerations
Claims & Drains
DB2 Performance Options

Attachments

CICS, IMS, TSO/Batch
Controlling The Workload