

Chapter 1: Introduction
You will learn: <ul style="list-style-type: none">• System architecture.• Components that effect performance.• Memory utilization.• Temporary data.• DB2 in a Sysplex environment.• Relational database environment.
Chapter 2: Monitoring and Reporting
You will learn: <ul style="list-style-type: none">• Topology selection criteria.• Turning on monitoring and traces.• Reading diagnostics traces.• System generated statistics.• Using the Query Monitor.• Estimating system resources.
Chapter 3: Hardware and DB2
You will learn: <ul style="list-style-type: none">• Key components for estimating storage requirements.• How to use compression and its effect on performance.
Chapter 4: Processing DB2 Transactions / Queries
You will learn: <ul style="list-style-type: none">• Installing messaging products.• Transaction flow thru DB2.• Differences between static and dynamic SQL.• Effects of logging on performance.• Logging structure.• Processes and threads in DB2.• Utilization of cache in DB2.• Utilization of the RLF.
Chapter 5: Thread Allocation and Workload Control
You will learn: <ul style="list-style-type: none">• Thread architecture.• Setting and benefits of thread limits.• Thread reuse - advantages.• Monitoring threads usage and reuse.
Chapter 6: Buffer Pools, Memory, and I/O
You will learn: <ul style="list-style-type: none">• Administrative Console.• Buffer pools and associated I/O.• EDM.• Virtual storage for storage pools and its effect on performance.• Customizing buffer pool options.

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Chapter 7: Locking and Concurrency

You will learn:

- Node management.
- DB2 locking strategy.
- Order of lock precedence.
- Effects of locks on performance.
- Committing updates.
- Database and application design considerations.
- Indexes and data-only locking.

Chapter 8: Utilities and System Considerations

You will learn:

- Features, location and names of logs.
- DB2 Instrumentation Facility.
- QMF and its effects on performance.
- Utility considerations on locks on performance.
- Workload Manager for setting performance objectives.

Chapter 9: Monitoring Strategy

You will learn:

- Performance management techniques.
- Monitoring scope.
- Reporting methods.
- Reporting tools.

Chapter 10: Problem Investigation

You will learn:

- Collecting information for problem determination.
- Generating real time statistics.
- Looking at thread detail.

Chapter 11: Optimizer, Access Paths, EXPLAIN

You will learn:

- RUNSTATS.
- DB2 Optimizer.
- Logic of access paths.
- Evaluating SQL predicates and using the EXPLAIN statement.


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