



Spotlight® on DB2

Visual Root-Cause Diagnostics and Resolution for DB2 on Linux, Unix and Windows

For busy DBAs, using manual methods to diagnose and resolve every issue affecting database performance is nearly impossible. Often, without a clear view of I/O and user activity, the DBA learns of performance problems only after bottlenecks form. Spotlight® on DB2 empowers DBAs by providing every detail needed to quickly identify and eliminate bottlenecks in their DB2 environment, whether it is running on Linux, Unix, or Windows.

The Visual Root-Cause Diagnostic Solution

Spotlight, a Windows®-based diagnostic and resolution solution for DB2, features patent-pending technology that displays real-time activity of all database components in a single interface. By displaying the actual processing architecture of DB2, Spotlight helps you pinpoint the source of problems as they occur and rapidly resolve them. Graphical flows illustrate the rate at which data is moving between database components. A map displays the value of key statistics and metrics about your DB2 environment, including user activity I/O activity and operational overhead.

Automatic Problem Detection for Instant Resolution

With Spotlight, DBAs can drill down to details and locate in-depth information about the source of a problem. And because the run-time nature of each DB2 database is unique, Spotlight offers a calibration process that automatically sets a baseline of normal activity for each server and subsystem. This allows Spotlight to automatically set the speed of the internal flows and other activity indicators. When a threshold is met, Spotlight sends a warning of impending problems with a visual or audible alert. With these advanced warnings, DBAs have the time to eliminate bottlenecks before they seriously impact end users.

From an overview screen, DBAs can view the most active user sessions, SQL statements, locks, waits, and database activity to pinpoint and alleviate problem areas as they occur.



Comprehensive real-time DB2 monitoring with Spotlight on DB2.

- Unique visual representation of process flows within DB2 allows you to observe actual database activity in real time
- Enables you to see all critical components on one screen
- Reports problems — you don't have to ask about current status
- Frees you from writing your own diagnostic SQL scripts
- Explore database activity:
 - Active thread detail
 - Inefficient SQL, locks and waits
 - Disk I/O
 - Database memory usage
 - Buffer cache utilization
- Explore operating system activity:
 - CPU
 - Disk
 - Memory
 - Processes
 - Network

System Requirements:

Client Requirements

- Windows 2000 or XP
- 512 MB RAM
- 300 MB disk space
- DB2 UDB version 7.2 FP6 runtime Client, or higher

NOTE: Spotlight requires a DB2 UDB version 8.1 runtime Client when running against a DB2 UDB version 8.1 64-bit server

Database Support

- DB2 UDB version 8.1 FP1 (64-bit) for Linux, Unix and Windows

Main Components

Real-Time Display of Database Activity

Unlike other diagnostic tools, Spotlight displays a graphical representation of activity occurring in real time between the fundamental components of the DB2 architecture. The main screen displays such components as memory, disk storage and SQL processes. Pulses traveling between these components represent the relative rate of data transfer and the level of activity within the database. These flow rates adjust to the performance characteristics of your specific server.

Historical Record/Playback

The record/playback capability allows you to easily retain all the performance metrics for a period of time via historical snapshots and then review them in full detail.

Support for clustered environments

EEE Support

Similar to the data sharing display, Spotlight provides a global visualization of EEE and ESE clustered environments including node summary and FCM detail reports.

Database Summary

The database summary drilldown provides summary reports for the health of the overall instance or subsystem.

Client Application Detail

The client application drilldown provides detail on all active threads, including information related to locking and I/O.

TOP SQL

The Top SQL detail is a collection of all SQL statements executed across all applications. This report allows the DBA to easily identify the most resource intensive SQL statements across all applications.

Tablespace Detail

The Tablespaces drilldown provides the following information about tablespaces running on DB2 for Linux, Unix and Windows:

- Configuration information
- Use of extended storage
- The amount of time required to perform direct and buffered I/O on the Tablespace during the selected monitoring interval

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