

S P E E  **G A I N**
for DB2

powered by
ITGAIN 

Summary

prevent / detect

diagnose

analyze

correct

Databases are at the heart of every company

Whether they're used for online banking, flight bookings, insurance policies, warehouse administration, accounting or content management, the reliability, availability, and performance of your DB2 databases is of vital importance to your company.

Keep on top of things

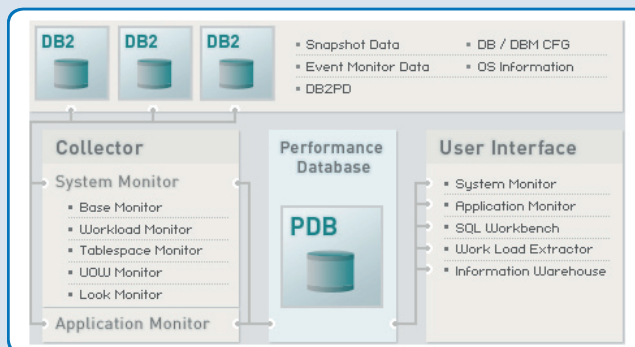


- *Maintain Service Level Agreements*
- *Reduce database response time*
- *Maximize database availability*
- *Identify performance issues prior to them becoming a problem*

Features

- 24/7 monitoring
- Real-time analysis
- Exception based threshold reporting and alerting
- Performance views for top ten applications, statements, tables and tablespaces
- Enhanced DPF monitoring for evenly distributed workloads
- Index reports: used/unused indexes, index recommendations
- Historic information: travel back in time and trend analysis
- Integrates DB2PD to enhance SQL and object relationship reporting with no additional overhead
- Interfaces to Enterprise monitors like Tivoli and HP OpenView
- SQL Workbench: enhanced SQL Tuning
- Capability to test drive SQL and Access Path Selection
- Full DB2 Version 8.2/9.1 support
- No local database agents
- Easy and competitive pricing model

Architecture



With Speedgain for DB2 you will always be in tune with the current status of your databases. It detects potential problems as they are developing. Concrete diagnostic tools for fault analysis offer options for improvement. As a result, bottlenecks and down time in your business will be minimized.

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Monitoring

Besides the ease of access to the monitoring data, the alert functions and the visual presentation of Speedgain for DB2 are two of the most outstanding features of this monitor. An alert is indicated by the appearance of a traffic light icon or a peak in our performance charts. Concrete

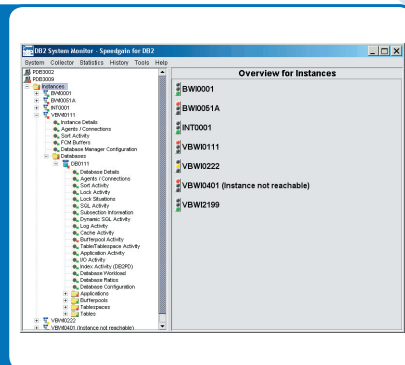
information, such as numerical data concerning the current operation of your DB2 database, is presented in diagrams. The threshold values for triggering an alert function and the performance charts can be customized to suit your needs.

Our easy to use GUI follows our monitoring approach

- Detect and/or prevent errors and performance bottlenecks
- Diagnose: Find peaks or abnormal operations
- Analyze and drill down to database, system resources, applications and SQL to find the root cause of a problem
- Correct the problem

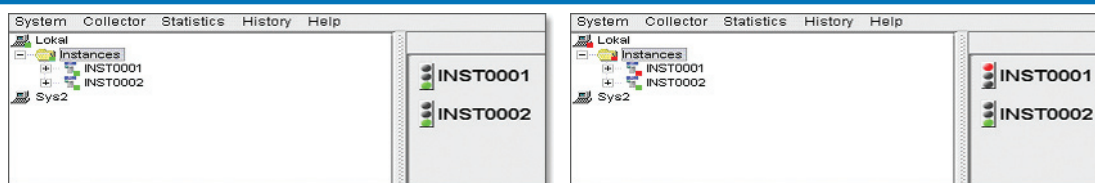
Prevent problems with proactive monitoring and identify peaks or abnormal operations via a system of "traffic lights", performance charts and threshold reporting. Our diagrams provide a quick and easy path to the problem.

Our intuitive structure provides structured information to analyze performance problems quickly and relate performance objects to each other.



One click to the problem

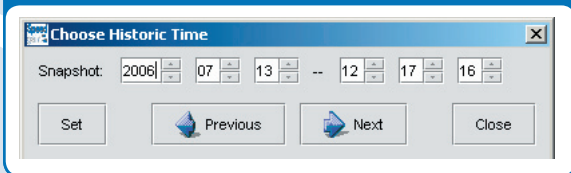
When the diagnostic system detects a problem, one click on the "traffic light" is all you will need. The problematic database values are immediately displayed. The causes are analyzed and the results are presented in clearly arranged reports.



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Travel back in time

Speedgain stores any performance data in its own database. This performance database (PDB) allows one to travel back in time and get all detailed information. Use the GUI to drill down to the point of interest.



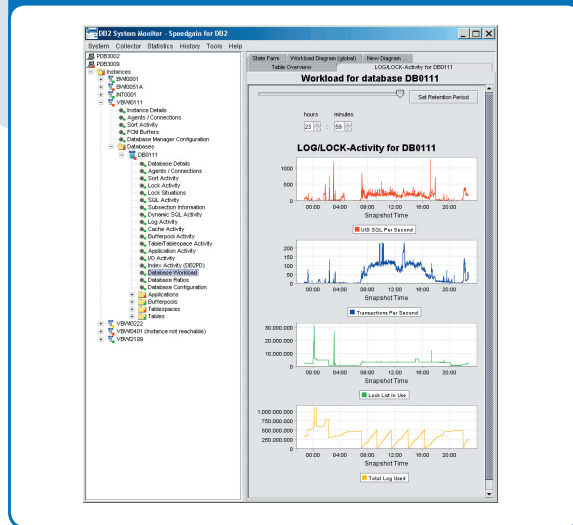
And what if you are not sitting in front of the system and monitoring your databases?



Have our predefined user exits passing information about critical performance problems to your pager or to your enterprise system monitoring like Tivoli or HP OpenView.

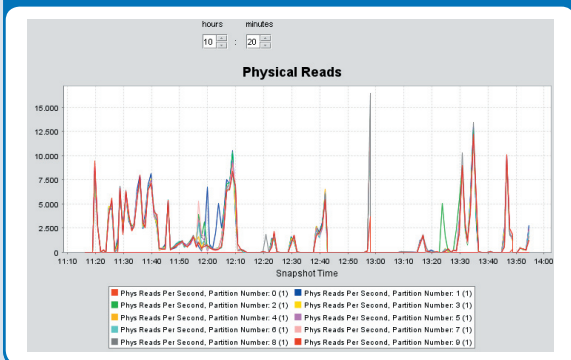
Performance charts

Our performance charts show peaks and allow one to detect the timestamp of abnormal operation



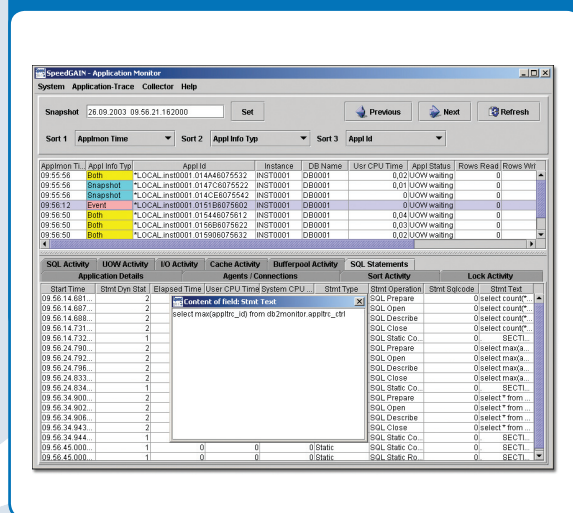
DPF Monitor

Do you want your databases to distribute the workload evenly across all partitions? Do you keep track of your FCM buffers to avoid instance crashes? Speedgain automatically detects when you monitor partitioned databases and visualizes additional information like partition diagrams, subsection information and FCM buffer utilization.



Application Monitor

Switch on the movie camera whenever you want to record application workload. Our Application Monitor allows you to start DB2 Event Monitors automatically in case of threshold violations.



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DB2PD

Once you stepped back to the timestamp where the problem occurred you can use our performance views and bottleneck visualization to analyze the problem. Which application is responsible? Which SQL statement or transaction? What is your hottest table? What is the application with the most CPU consumption?

Use our various performance monitor informants to “cut to the chase”. We combine the power of the snapshot API, event monitors and DB2PD to deliver the data you need to find the root cause for your performance problems.

DB2PD, the problem determination tool shipped with DB2 UDB is a new performance informant which allows you to combine snapshot data objects and it provides valuable information about your indexes.

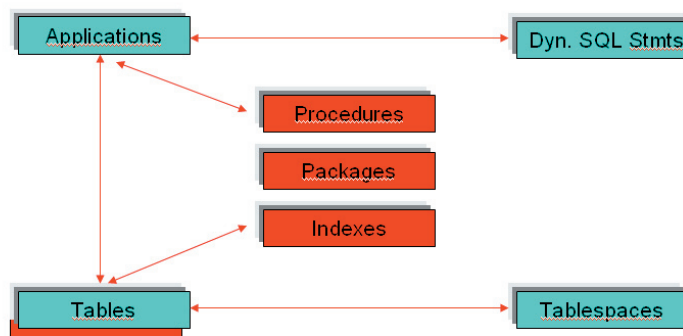
- You don't dare drop unused indexes?
- You don't know which indexes are not used?
- You would like to check the quality of your indexes?

Speedgain interfaces with DB2PD and tells you how often each index was “touched” (scanned) and delivers numbers about page splits and pseudo deletes. Speedgain can also tell you which indexes were used last night for your batch streams. This is the first time a DB2 monitor system can deliver this valuable information. You won't miss a thing about any index in your environment.

Snapshot Time	Table	Index ID	Scans	Empty Page Deletes	Root Splits
22:58:42	BWL.TALADR1	1	21.137	0	0
22:58:42	BWL.TALANF3	1	18.566	0	0
22:58:42	SYSTOOLS.HMON_ATM_IN...	1	10.031	0	0
22:58:42	BWL.TALANF1	1	7.893	0	0
22:58:42	BWL.TALOBJ1	1	4.790	0	0
22:58:42	BWL.TALTAB1	1	4.201	0	0

Drill through to performance objects

Have you ever tried to find application-related information in a DB2 snapshot for dynamic SQL? There isn't any. Use Speedgain for DB2 to combine the DB2 snapshot API with output from DB2PD. Both performance informants together deliver a complete picture.



Details

prevent / detect *diagnose* *analyze* *correct*

Fix the problem and prevent it from occurring again



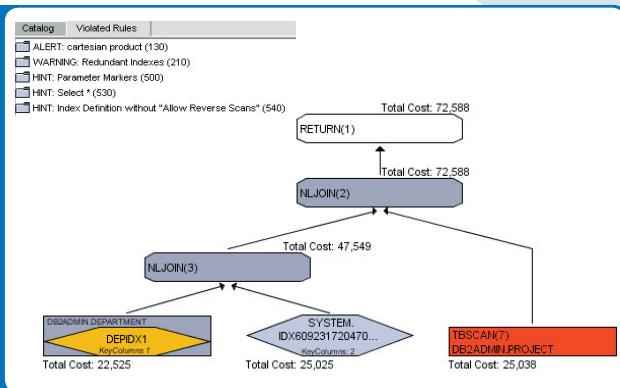
Once you find the problem you need to take action to get rid of it. Sometimes it is a phone call to a developer, sometimes a “force application” or a meeting to make recommendations or the usage of other tools to get back to normal operation.

In many cases poorly structured SQL and indexes lead to performance problems. This is where you can use our

integrated SQL Workbench. The SQL Workbench allows you to analyze and tune SQL statements. It utilizes DB2 Tools like the DB2 Design Advisor to make index recommendations and combines them with the concept of virtual indexes to compare existing access paths to alternate ones. Use our predefined explain rules to determine critical parts of the access paths.

SQL Workbench can:

- Visualize Access Paths
- Analyze Access Path and point to critical parts
- Make index recommendations
- Create virtual indexes and “what-if-scenarios”
- Compare various access paths
- Testdrive SQL statements
- Store access paths for later analysis
- Predefined and customizable explain rules
- Free distribution to your co-workers



Contact & Trial

Try us for free:

- Speedgain for DB2
- Gateway Monitor

<http://www.itgain.de/en/produkte/speedgain.html>

Other Products

- JCL2 Unix
- Ahlsort

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