

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

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INFORMATION WAREHOUSE

*powered by*

ITGAIN 



... is the latest enhancement to ITGAIN's monitor suite SPEEDGAIN FOR DB2. It provides predefined reports which allow Speedgain users to visualize and analyze performance metrics in user defined timeframes. It includes Top 10 reports for most expensive SQL, applications with long running transactions and shows overviews for scheduled DB2-Utilities like backups or reorgs.

### 4 EASY STEPS TO SUCCESS

#### 1 CHOOSE PERFORMANCE DATABASE

- see all of your databases in one intuitive user interface
- no local agents required
- one-click installation
- growing report base

#### 2 SELECT REPORT

- predefined reports
- filter existing reports by choosing categories and hints
- find most expensive SQL or applications
- detect worst performing tablespaces and bufferpools
- extract index usage information
- see trends in performance data and prevent performance problems or downtime

#### 3 SET REPORT PARAMETER

- choose Instance and Database
- set relevant time frame
- limit result set on e.g. most expensive Statements or applications
- filter on Database Objects

#### 4 ANALYZE RESULT

- compare DB2 objects and timeframes
- find peak times
- detect hidden performance problems
- export tables and graphs to MS Excel for further analysis and formatting
- share your report results with your co-workers or management

The screenshot shows the 'SELECT REPORT' step of the interface. It displays a list of reports including 'SQL Top N', 'Tablespace Reorg Top N', 'Self Tuning Memory Manager (STMM)', 'Query Costs Changes', and 'Bufferpool Hit Ratio'. Below the reports, there are dropdown menus for 'Instance' (set to DB2) and 'database' (set to TPCH). A 'snapshot\_time' dropdown is set to 'All'. At the bottom, a line graph titled 'with highest workload [rows read]' shows performance trends from 08.10.2008 to 09.10.2008 for various applications like db2, javaw, and MS.

The screenshot shows the 'ANALYZE RESULT' step of the interface. It displays a pie chart titled 'Top 5 SQL statements' with a legend for 1, 2, 3, 4, and 5 statements. The chart shows the distribution of the top 5 most expensive SQL statements.

## ABOUT SPEEDGAIN INFORMATION WAREHOUSE

The enhanced analysis capabilities in SPEEDGAIN Information Warehouse will provide an immediate return on investment to the corporation through increased DBA productivity and reduced business application downtime. Additional value will be derived from ability to track SLAs, trend key performance metrics and deliver powerful reports to senior management. The DBA with this feature can now save valuable time by quickly visualizing and targeting critical areas responsible for perfor-

mance degradation. With the Information Warehouse performance trending, identification of your most expensive SQL statements related to CPU consumption, most highly utilized tables/ indexes and much more are there for immediate review. Why wait for DB2 performance to degrade for your business units? Armed with the Information Warehouse the DBA can now visualize the seeds of potential performance issues and perform prevention tuning.

## THE SPEEDGAIN INFORMATION WAREHOUSE WILL BRING TO YOUR FINGERTIPS:

- **Identify SQL**
  - *Statements with growing costs causing performance issues in near future*
  - *TOP N Statements: most expensive statements in terms of CPU consumption or execution time*
- **Identify Applications**
  - *with most read operations per day*
  - *with the longest Unit of Work*
  - *with the highest values of DB2-In-Times in terms of the applications producing the highest workload*
- **Analyze Bufferpools with high I/O times to read or write a page**
- **Executions of DB2-Utilities**
- **Identify and list Tables**
  - *with highest usage within a specified period of time*
  - *which have more than x percent of pages being online reorganized during an insert statement*
  - *where x percent of access operations (read/write) are running against overflow records*
- **Most widely used indexes within a specified time period**
- **Identify and list Tablespace**
  - *with high I/O times to read or write a page*
  - *with unused prefetch pages*
- **Long term analysis and trends for Bufferpool Hit Ratio**
- **Parameters changed automatically by STMM, DB2's self tuning memory manager**
- **List the updated instance and database parameters within a specified time frame**

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