

SQL PerformanceExpert for DB2 z/OS

OVERVIEW

TAKE CONTROL.

Improves SQL application performance

Increase QA productivity and reliability by reducing retesting needs

Increase programmer productivity by automating SQL analysis



Improve SQL programming practices with an expert system with hundreds of predefined rules


Provide informative, automated reports on analysis performed



Explain trigger packages

Enable a single point of control using DRDA connectivity


Collect host variable values for static and dynamic SQL

 **SQL PerformanceExpert** (SPX) automates analysis and tuning of SQL, making the effort easy and efficient.



Well-tuned and high-performing SQL statements equate to efficient CPU usage, improved response times, reduced I/O activity, and reduced locking. SPX provides automated and intelligent analysis and tuning of SQL statements, improving the overall performance of production applications.

SPX eliminates many of the performance problems typically found in a production environment, by creating a simulated production environment for application testing. It detects poor performance early in the development process, saving valuable technical and CPU resources and associated cost. With SPX, your technical staff is empowered to work smarter—saving time, increasing productivity and maximizing the use of the shrinking batch window.

OPTIMIZE SQL

SPX is a complete toolbox that helps produce optimized SQL through a three-tiered approach for the whole SQL lifecycle.

- Development—Perform tuning during development stage, identifying and intercepting potential problems before they are moved into production
- QA/Pre-production—streamlines the QA process
- Post-production—Analyze production applications to address high-consumption processes

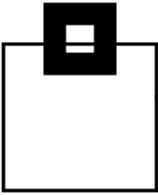
SPX exploits DB2 V8 and V9 features, allowing you to fully optimize your SQL workload. By taking advantage of features such as multi-row fetch and EXPLAIN tables, SPX provides a new milestone of speed and functionality.

SOFTWARE ENGINEERING GMBH

Robert-Stolz-Strasse 5 D-40470 Dusseldorf
Tel: +49-211-9 61 49-0 Fax: +49-211-9 61 49-32
<http://www.seg.de> Email: info@seg.de

SEGUS Inc

12007 Sunrise Valley Drive Reston, VA 20191-3446
Tel: 800-327-9650 Fax: 703-391-7133
<http://www.segus.com> Email: info@segus.com



FEATURES

Arrives prepackaged with hundreds of expert rules

Monitors production applications to identify performance problems

Flexibly integrates into existing QA and change control environments

Provides a single point of control via DRDA connectivity

Provides ability to build site-specific rules with an easy-to-use online dialog

Processes both static and dynamic SQL

Identifies performance relevant changes

Reduces DASD requirements in the test environment

Includes a global explain table pool

Supports XML/XPath

Supports catalog history to create production baselines

SQL analysis and monitoring—Through intelligent analysis and ongoing monitoring, SQL statements that negatively affect application performance are easily identified. SQL performance is easily improved by implementing recommendations provided about poorly performing SQL statements.

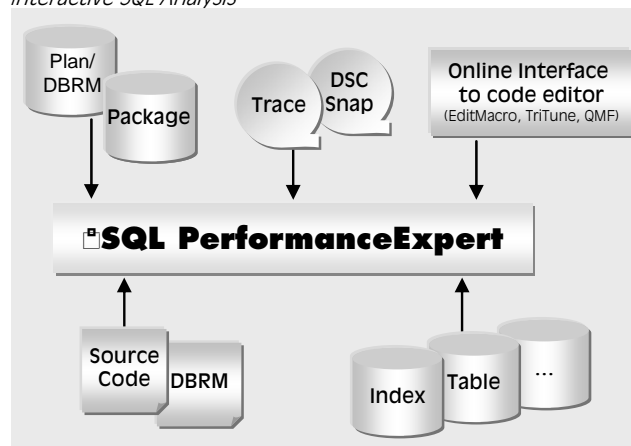
By quickly identifying only new and changed SQL, the QA workload is reduced. Analysis includes the capturing and preparation of dynamic SQL statements that are needed for comprehensive analysis. **SPX** provides standards for SQL application development through an expert rule system that can be easily customized. Recursive viewing performs analysis of predicates within a view.

Production simulation—Enables development of high-performance applications, by generating reliable catalog statistics for use during testing and SQL analysis. Not only provides a method to create DB2 catalog statistics in the test environment to allow application access paths to be simulated during testing, but also creates rule production baselines to verify access path changes.

DBRM checking—Reduces I/O activity and locking problems with fast and efficient examination of DBRMs, identifying potential performance problems. Use DBRM checking to determine compliance with current quality assurance rules by verifying new programs during the compile procedure and analyzing a single DBRM or whole DBRM libraries—without accessing the DB2 catalog. Easily generate predefined rules and recommendations that help improve quality and performance; these rules can be customized according to severity level.

Package management—Examines consistency of load modules, DBRMs, and the DB2 catalog to locate packages that are unnecessary or not bound, automatically cleaning up packages that are no longer needed.

Interactive SQL Analysis



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12007 Sunrise Valley Drive Reston, VA 20191-3446
Tel: 800-327-9650 Fax: 703-391-7133
http://www.segus.com Email: info@segus.com