

ADVISOR FOR DB2 **IMPROVE DATABASE APPLICATION PERFORMANCE WITHOUT DISRUPTION IN REAL-TIME**

DB2 is the lifeblood of many large organizations and is business critical for managing high volumes of transactions and data. The ongoing challenge for CIOs, DBAs, and Analysts is to improve the response time and availability of their mainframe computing environment without negatively impacting system performance - even momentarily. Ideally, they want to avoid risky changes to applications and to minimize development and maintenance costs.

Eccox Advisor for DB2 will safely and definitively improve your mainframe performance without impacting system availability or require hardware upgrades or outside experts.

Eccox Advisor for DB2 maps the DB2 workload including peak times-even at 600+ million transactions per day.

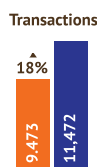
Eccox Advisor for DB2 unobtrusively samples the utilization of system resources while taxing less than 2% of overall system resources. It then provides detailed analysis and reports along with specific recommendations based on the expected impact. This allows users to proactively and confidently decide what to change in the application and database to improve overall system response time and lower the cost per transaction.

Eccox Advisor for DB2 clients gain dramatic cost savings and mainframe performance improvements - often gaining 10 to 20% in CPU processing power.

Payback is almost immediate. A telecom customer reported a 55% reduction in CPU response time after implementing the changes advised by Eccox Advisor for DB2.



An insurance provider was able to process 18% more transactions with the same processing power.



A global financial enterprise reported a 10% MIPS reduction to run the same programs after Eccox Advisor for DB2 was installed.



DYNAMIC INDEX RECOMMENDATIONS

Eccox Advisor for DB2 analyzes the full DB2 workload to make *dynamic* index recommendations.

- Analysts quickly gain insight into application performance problems, abnormalities during operation, as well as future impact from changes to the software or hardware allowing them to be more strategic about current and future system plans.
- DBAs can fix DB2 performance problems - and even prevent future ones from occurring - without bringing the system down and disrupting business operations.
- Development managers gain more availability from the system and staff enabling them to develop more direct revenue generating software.
- Capacity planners eliminate unnecessary capital expenditures and can better predict future expenditures and needs.
- CIOs get better performance, avoid crises, and can better utilize key IT staff - this all contributes to a higher ROI for all mainframe-related assets.

Driving IT
Excellence



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A BETTER METHOD TO DO MAINFRAME PERFORMANCE OPTIMIZATION

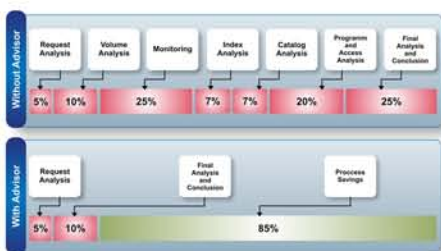
To improve mainframe application and DB2 performance, DBAs typically analyze and fix one poor-performing SQL statement at a time, jumping from tool to tool to obtain the needed information. This manual method is time consuming and error prone. With **Eccox Advisor for DB2**, the DBA can investigate the problems at the subsystem level so he/she can quickly identify each and every program related to a particular SQL statement. With this data in hand, the DBA can then make performance enhancements that will improve all of the programs that use a particular SQL statement. The new indexes or modification of existing indexes will then take into consideration all of the column combinations used within an application's program logic.

Eccox Advisor for DB2 will reduce resource contention problems by displaying helpful reports with key aspects of system use that can impact performance such as: the highest CPU consumers by program, correlation IDs, connection types, plans, collection IDs, SQLs, tables, etc. DBAs then can quickly determine which programs and transactions are problematic and identify the specific SQL statements from each program that are costly and need to be adjusted.

HOW ECCOX ADVISOR FOR DB2 WORKS

Eccox Advisor for DB2 is not a monitor but works with monitoring tools since it captures and analyzes traced workload data from accounting, performance and cache measurements. Using Resource Constraint Tuning, Eccox Advisor for DB2 provides a system-wide understanding of your resource utilization.

Eccox Advisor for DB2 does not place hooks into the application or DB2 database. Traces run in sampling mode and capture data on a pre-defined, intermittent basis. Depending on your company's specific environment, sampling can be set to run frequently every few minutes or spread out over longer periods of time. Typically, traces are run during heavy or peak processing periods when database activity is high so it can capture the most meaningful data.



Process during the analysis for just one SQL

ECCOX ADVISOR FOR DB2 TECHNICAL FEATURES

- Analysis of any SQL source: packages, DBRMs and dynamic SQL.
- Stores performance indicators into DB2 tables, resulting in easier consulting through queries.
- Statistics generator.
- Provides SQL inventory, including dynamic SQL, duplicated SQL.
- Follows SQL basic coding and performance rules.
- Allows the analysis of the whole DB2 and Source x workloads.
- Ease of identical and similar SQL commands identification.
- Allows integrated analysis of SQL programs and commands in production, using historical view, independent from the change history.
- Provides information on the major DB2 performance and resource usage indicators.
- DB2 table columns and predicates in SQL commands analysis.
- DB2 access plan historical comparison.
- Discovers and forecasts Data Type Mismatching.
- Works with Data Sharing environments.
- Supports applications with missing source code.

To schedule a demonstration of Eccox Advisor for DB2 or talk to a mainframe performance expert, email us: info@eccox.com or call (908) 382-6636.

Since 1992, Eccox has helped companies around the world achieve IT excellence. With more than 35,000 users of Eccox products and services, the company maintains offices in Brazil, the U.S., and Germany.