



## Optimize your IT. Optimize your Performance.

### **Save up to 30% of Mainframe Operating Costs. Now!**

Your MIPS demand is increasing year after year. And your IT department is continually optimizing enterprise applications just to keep pace. The challenge? Scale up while keeping the costs down. Now with **InnovizeIT** for DB2, you can drive performance while saving up to 30% of mainframe operating costs with fast ROI.

### **Rising MIPS Volumes, Increasing Costs**

Worldwide, a large number of IT systems still run on mainframe platforms. Hardware upgrades are expensive and infrequent. Legacy infrastructure is burdened with ever-increasing workloads and corresponding pressure to increase costly MIPS (or, as sometimes used, SRUs – System Resource Units). MIPS are a major component of license fees, so IT departments everywhere must squeeze greater operational efficiencies out of their systems or face spiraling costs.

### **Smart Mainframe Optimization for Big Savings**

IT departments need a reliable optimization solution that boosts performance while cutting costs. Systems that evolved over decades must be comprehensively evaluated, including all code variations, procedures, hardware and inventory. Prioritized recommendations are needed for rapid, efficient performance improvements. And any solution must be highly-automated and user friendly, with minimal additional load. Most of all, optimization needs to show measurable reductions in MIPS growth and expenses **now**.

### **The InnovizeIT Advantage**

**InnovizeIT** for DB2 leverages enterprise server data to evaluate performance. Unlike other optimization products or services that monitor and point to process bottlenecks, **InnovizeIT** for DB2's proprietary technology uniquely combines automatic analysis of all application elements for insightful change recommendations. Available as a product or service, both on and off-site, **InnovizeIT** for DB2 delivers exceptional value, no matter the project size or location.

### **Quick Implementation for Fast ROI**

**InnovizeIT**'s proprietary analysis and recommendations provide powerful performance enhancements and operational cost reductions through reduced CPU use and shorter batch windows. **InnovizeIT** can help you save up to **30%** of DBMS-based applications costs, with service fees significantly lower than first-year savings. Full return on investment can be achieved before an optimization project is even completed, for a dramatic lift to bottom line performance.

### **A Case in Point**

An international bank spent €40 million annually for licensing, maintenance, support, and hardware based on a high MIPS volume. Through smart mainframe optimization technology, the bank achieved a 30% MIPS reduction. The result? Annual savings of over €10 million!

### **How it Works**

**InnovizeIT** for DB2 optimizes performance for Z/OS and LUW environments. Available as a PC-based product, as a service or through the cloud as SaaS, optimization can be done on or off-site. Business data is not required, and no installation is needed on client servers or mainframes.

Optimization for fast performance improvement and MIPS reduction occurs in three integrated stages: Analysis, Recommendations and Monitoring.

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### Analysis

DB2 elements, catalog tables (metadata), application access information (explain tables) and application sources (SQL syntax) are analyzed in depth. In LUW environments, DB2 can be monitored with minimal system impact at the snapshot level or with event monitoring. SQL explain facilities can capture information about the access plan for individual SQL statement execution. The db2batch utility monitors SQL execution and presents performance details. DB objects are evaluated together with application code analysis from DBMS catalog metadata or programs to identify performance sinks.

### Recommendations

Remediation steps are generated automatically for changing RDBMS definitions or their use in application code. Bottleneck severity is weighed with worst offenders pinpointed for immediate attention. Optimization recommendations can include changing DB2 and tablespace definitions, adding/removing indexes or changing SQL statements. When applied by DBAs/SMEs, CPU usage drops and batch windows are shortened for fast improvements, deep savings and as an added benefit, empowered staff.

### Monitoring

A custom process can be added to the development cycle. The process analyzes each program following a change and before submission for testing to identify sub-optimal patterns. DBMS metadata is also analyzed periodically to monitor for performance sinks. In this way, optimized performance and operating cost savings are maintained over time.

### Convincing Benefits

- Combined analysis of DB2 system and application code (SQL) provides a comprehensive overview of performance sinks, enabling deep cost savings.
- Weighted analysis with worst offenders pinpointed first for rapid, efficient performance improvements, quick savings and fast ROI.
- Automated recommendations deliver guided assistance to clients in applying changes.

- Incremental implementation with suggested changes introduced through the regular development / test / product cycles, reducing risk considerably.
- Dynamic drill-down reporting presents the anticipated impact of changes across the system for better optimization decisions.

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 installation  
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 burden**  
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- Full History tracking ensures identification and isolation of processes causing performance deterioration.
- Continuous analysis over time ensures performance improvements are maintained.
- PC based with no need for mainframe installation or additional burden on the mainframe.

- SaaS delivery (optional) provides full optimization service anytime, anywhere.
- High security ensures all data is protected with complete confidence.

### About InnovizeIT

**InnovizeIT** boosts the performance of enterprise-scale, data-intensive applications for significant operational cost savings. A new paradigm in DB2 application optimization, **InnovizeIT's** unique methodology quickly identifies performance bottlenecks and delivers powerful insights, targeted solutions and notable cost efficiencies while empowering personnel. **InnovizeIT** is dedicated to implementing low-risk, high return solutions worldwide with unsurpassed service and support.

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