

SAS® Scoring Accelerator for DB2

*Score models inside the DB2 database to support faster
decision making with greater accuracy*



Prepare to score large amounts of data

Now more than ever, organizations must make decisions quickly. Without the right tools, companies simply cannot aggregate, score and analyze their large amounts of data in order to make decisions in minutes or seconds, rather than hours or days.

Prepare to improve efficiency

Reduce repetitive operations and model-scoring process time with a solution that combines the statistical transformation and modeling methods employed in SAS® Enterprise Miner™ with the flexibility and processing speed enjoyed with IBM® servers and IBM DB2®.

Prepare for new insights

Regain control of data governance once and for all. With SAS Scoring Accelerator for DB2, modelers determine where the data resides—and in what form—at any time for rapid analysis.

SAS® Scoring Accelerator for DB2

Use in-database processing to:

- Eliminate the need to move data between SAS models and DB2 for scoring purposes.
- Reduce the latency and complexity of the scoring process.

Now analysts and modelers can take all the intelligence of SAS scoring algorithms and embed them into the IBM DB2 database. When creating scoring models in SAS Enterprise Miner, SAS Scoring Accelerator for DB2 lets analysts translate into DB2 the specific functions that must be deployed and executed—directly within the DB2 database environment.

Clear benefits

Improve efficiency with SAS technology that combines statistical transformation and modeling methods in SAS Enterprise Miner with the optimized performance expected with IBM scalable servers, efficient storage systems and DB2.

- With a simplified technology infrastructure, modelers see less processing and storage complexity, virtually eliminating the need to extract all that data. Consolidate all your data inside DB2 and score it there.
- Improve productivity of data modelers and the IT organizations that support them.

Accelerate analytics time-to-results with a solution that makes it possible for organizations to complete model development in less time while realizing higher model-scoring performance.

- Deploy analytic models more quickly by reducing unnecessary data movement and making the most of database scalability; this yields more-timely information for business decision making.
- Develop and deploy models faster, delivering higher model-scoring performance and faster time-to-results.
- Reduce significantly data movement and latency, improving accuracy and effectiveness of analytic models.

Strengthen data governance. With SAS Scoring Accelerator for DB2, modelers determine where the data is—and what form it is in—at any time.

- Use database security for data privacy to achieve improved compliance with corporate governance requirements.

Real business impact, right from the start

It is not easy to aggregate, analyze and process large volumes of data and analytic models quickly enough when business decisions must be made in hours, minutes or seconds. And the presence of redundant data marts used to support analytical processes further compounds the problem.

Expect SAS Scoring Accelerator for DB2 to deliver value quickly:

- Optimize SAS scoring
- Scale to manage mixed workloads
- See faster model-improvement cycles
- Reduce data movement and latency
- Improve accuracy and effectiveness of analytic models
- Better manage, provision and govern your data
- Free up your best people to meet more-strategic goals

IBM and SAS

This 30-year relationship helps businesses thrive

- Nobody knows predictive analytics better than IBM and SAS. The two companies have worked together for more than 30 years to help businesses achieve their goals.
- The arena in which organizations operate today demands particularly precise knowledge, top professional expertise and a demonstrated enthusiasm for open communication—and that is why IBM and SAS have been so successful over the years as collaborators in meeting the business needs of diverse companies.

Now some of the best minds at IBM and SAS have come together to deliver high-performance model scoring and deployment with much faster time-to-results. Discover an exceptional solution that makes possible the massively parallel deployment of SAS Analytics inside your IBM data warehouse database: the SAS Scoring Accelerator for DB2.

SAS® Scoring Accelerator for DB2

Key features

SAS format library

- File that is deployed once to the database system.

SAS Scoring Accelerator for DB2 publishing client

- Automatically translates and publishes the model as a scoring function inside the database.
- Generates a script of database commands for registering the scoring function inside the database.
- Scoring functions are available for use in any SQL expression wherever database-specific built-in functions are typically used.
- Publishes model as protected or unprotected.
- Supports SAS intrinsic and user-defined formats.
- Optimally supports a robust class of SAS Enterprise Miner predictive and descriptive models, including the preliminary transformation layer (such as data imputations).
- Variable binning and reduction.

SAS Model Manager

- Available as an add-on to SAS Scoring Accelerator for DB2.
- Provides an analytic model management and deployment environment that is fully integrated with SAS Scoring Accelerator for DB2 to further streamline the registration and validation of SAS models in the database.

How some IBM customers are using SAS® Scoring Accelerator for DB2

Telecommunications: Propensity to pay. Companies are using scores to prioritize and deploy treatment plans to collect outstanding funds, targeting those who are most likely to pay, scoring many more records in far less time and demonstrating ROI through significantly increased collections.

Banking and insurance: Fraud. Firms are reacting more quickly to thwart criminals whose tactics are constantly changing, avoiding the potential loss of millions of dollars with models that signal fraudulent behavior. They are moving model deployment from post-payment processing (recovery) to pre-payment fraud prevention and decreasing the burden on the collections department.

Retail: Real-time analytics. Retailers are capturing more wallet share at every customer contact—even with fewer consumer dollars available. They are offering immediate and targeted up-sell and cross-sell using real-time application of analytics at the point of customer interaction and boosting revenue and increasing market share cost-effectively by delivering precise, timely offers.

Manufacturing: Predictive maintenance. Companies are saving money and fostering brand loyalty by reducing reaction time when the production or distribution of faulty parts occurs. They are setting up an early warning system; making scored data available in-database gives them the foundation upon which to address issues proactively and manage customer relations appropriately.

IBM and SAS come together to help organizations reach new levels of business success.

SAS® Scoring Accelerator for DB2

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