IBM DB2 Universal Database, Version 8.1

Loaded with rich functionality, not expense
In today’s data-driven business world, you want to leverage your information assets in new and innovative ways for competitive gain. But you can’t afford to spend too much time or devote too many resources to managing your database. With IBM DB2® Universal Database™, Version 8.1, you don’t have to.

DB2 is easier to use and administer than ever, with new self-management capabilities that automate many of the tasks traditionally associated with maintaining an enterprise-class database. It continues to boast the price/performance that has made firm believers out of 400,000 companies and more than 16,000 IBM Business Partners. In fact, analyst firm Gartner Dataquest recently named IBM the worldwide leader in database management system software. And it all comes at an affordable price and low total cost of ownership (TCO).

Central to your most critical business applications
As the nucleus of many e-businesses, DB2 is optimized for such key applications as e-commerce, business intelligence and information integration. In an e-commerce environment, DB2 has the muscle to manage the information contained in the largest online catalogs. And with its support for the latest Web services standards and Internet protocols, you can easily share your data with partners, customers and suppliers.

To analyze customer behavior and explore marketing trends, you’ll have plenty of high-powered business intelligence support with DB2 data mining offerings, you can uncover patterns and trends—even in realtime—that can enhance decision making, helping you strengthen customer relationships and increase your competitive advantage.

Your business information comes in various formats from multiple sources and platforms—especially as your enterprise expands. IBM is at the forefront of integration technology and is working to combine XML with powerful data integration tools across relational databases, flat files, spreadsheets, Web services and more.

The affordable, low-maintenance DB2 Universal Database supports multiple data types and platforms for a variety of business applications.

Highlights

- Offers optimal support for e-commerce, business intelligence and information integration applications
- Features self-management capabilities for ease of administration
- Provides stellar performance, availability and scalability, as well as low total cost of ownership
- Has the support of tools that are designed to further optimize performance.
With the new 8.1 release of DB2 Universal Database, IBM has made far-reaching improvements in performance, availability, scalability and—most importantly—business intelligence. We look forward to leveraging its new features to bring an even broader range of products and services to our global customer base.

— Tony Marzulli, Senior Vice President, Global Marketing, Lawson Software
You can also take advantage of two new features to monitor the well-being of your DB2 system. The Health Monitor and Health Center alert you to potential system issues, so you can address them before they become harmful problems. The Health Monitor is a server-side tool that provides constant monitoring without user interaction. The Health Center is the graphical interface to the Health Monitor, and you can use it to configure the Monitor.

In DB2 Version 8.1, you also have the option of using the Web Health Center to access Health Monitor information and execute new DB2 commands from a Web browser or personal digital assistant. A Memory Visualizer tool, part of the Health Center, helps you uncover and repair memory-related problems on a DB2 instance by monitoring memory usage in the data engine.

High performance gets even better
Its scalability, high availability and stellar performance have earned DB2 the highest recognition in the latest industry benchmarks, and these DB2 qualities have been further enhanced in Version 8.1. Take advantage of:

- Connection concentrator, to support a large number of concurrently connected users.
- Multidimensional clustering, an innovative method for flexible, continuous and automatic organization of data along multiple dimensions, reduces the need for indexing and supports fast roll-in and roll-out, speedy query response and simple definition syntax.
- Declaration of global temporary tables, with minimal undo logging and support for indexes and statistics.
- Threading architecture for Java™ stored procedures and user defined functions (UDFs) to minimize resource consumption.
- Catalog caching to provide a cache on all nodes in a massively parallel processing system.
- 64-bit support, with larger buffer pools, sort heap and other resources, which brings the Microsoft® Windows® and Linux® environments in line with DB2 on IBM AIX®, Sun Solaris Operating Environment and HP-UX.
- Authentication, authorization, privileges and integrity capabilities of DB2 to help ensure the security of your critical data assets.

Resolving memory-related issues in DB2 starts with consulting the database management system’s graphical Memory Visualizer tool.
The latest version of DB2 includes many other application development enhancements:

- **New functionality and improved performance in industry-standard application programming interfaces such as ODBC, ADO, OLE DB, DB2 CLI, JDBC, SQLJ and Embedded SQL.**
- **Simplified development through SQL improvements such as INSTEAD OF triggers, new built-in functions and informational constraints.**
- **Continued support for component-based architectures using such technologies as Java 2 Platform, Enterprise Edition (J2EE), JavaBeans, Microsoft Component Object Model (COM) and XML.**

### A solid, all-around value

While redefining data management through its innovative technologies, IBM remains committed to delivering value. DB2 offers one of the market's lowest-TCO data management solutions. From its scalability to its fast, reliable performance and easy development environment, DB2 can rock your world and help you win the e-business game.

**Maximizes programming resources**

When developing applications based on DB2, programmers can maximize their productivity by utilizing an extensive toolkit available with the Personal Developer's Edition and the Developer’s Edition. In addition, the DB2 Development Center environment helps simplify the process of building stored procedures, UDFs and triggers, and also helps with the development, debugging, testing and deployment of these application objects for DB2 servers running on Windows, UNIX® and Linux as well as IBM z/OS™. The Development Center provides tight integration between DB2 and IBM WebSphere® Studio, and between DB2 and Microsoft Visual Studio.

**An online table reorganization utility that allows applications full access to the tables being reorganized.** An online index reorganization utility provides the same capability for indexes being reorganized.

**Configuration parameters that modify key database and database manager configuration parameters online for immediate effect.**

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For more information, please contact your IBM marketing representative or an IBM Business Partner, or call 1-800 IBM CALL within the U.S. Also, visit our Web site at ibm.com/software/data/db2

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