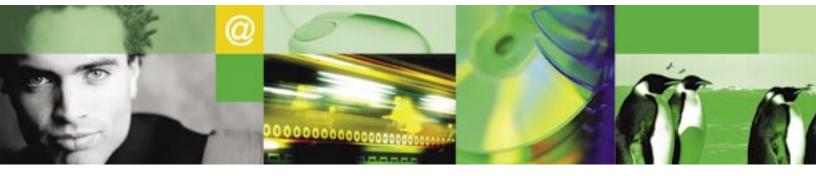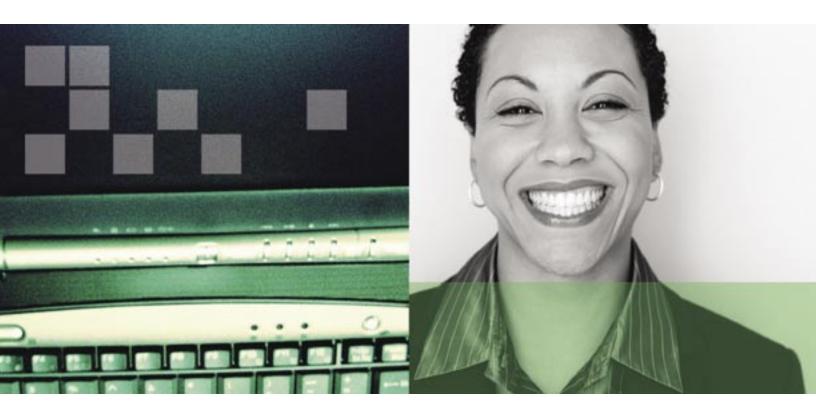**DB2**® Data Management Software

The freedom of Linux. The power of DB2 software from IBM.

"Through Acclink, Ltd., we have brought together the best of ACCPAC, AGS Software and IBM DB2 for Linux to get an extremely cost-effective point-of-sale solution that provides timely Web-based transactional information in minutes instead of days."

— Charlie Hinerman, President, Future Cellular

Compete with confidence

You've always known that innovation pays off in e-business. But to be truly free to innovate, you need to be unburdened by budget restraints and enjoy virtually unlimited choice in sophisticated technology that fits your organization.

Simply put, freedom to innovate depends on solutions such as IBM DB2® Universal Database™ for Linux®. Robust, scalable and Web ready, DB2 Universal Database, the core product in the DB2 software family, powers thousands of the world's leading e-business infrastructures on a multitude of hardware platforms. And Linux is forging ahead as the fastest-growing server operating system (OS) on the market.

With DB2 for Linux, companies have a cost-efficient means for integrating and leveraging their valuable data assets to make more informed decisions, provide better customer service and transact business more efficiently with partners and suppliers. And running DB2 software on the open-source Linux OS offers more than a low total cost of ownership (TCO). It also provides rock-solid stability, flexibility and manageability.

Scalability pays great returns

Many IT professionals are concerned about whether their relational database on Linux will be able to scale and perform as well and as fast as the underlying Linux operating system. This can lead to unexpected costs for data migration and training when business applications outgrow the capabilities of simple databases. DB2 software for Linux helps you avoid these costs, because it can be deployed once and scale as large as your business demands. Using DB2 Universal Database, you can create new functionalities, enhance existing applications and run them anywhere, from handheld devices to mainframes. In other words, you

manage your technology, rather than vice versa, and you gain better control over return on investment and cost-saving opportunities.

With DB2 Universal Database and Linux running on the mainframe, you can consolidate workloads and eliminate server farms to reduce operating costs and gain mainframe performance for your applications. By using the facilities of Virtual Machine (VM), thousands of Linux operating systems can coexist with other operating systems on a single IBM S/390® Parallel Enterprise Server™ or an IBM @**server** zSeries™ server. And the mobile version, IBM DB2 Everyplace™, runs on handheld and embedded Linux platforms.

The possibilities are indeed empowering. You can build super-computers and high availability systems using clusters of IBM @**server** xSeries™ servers running Linux. IBM DB2 Universal Database Enterprise-Extended Edition for Linux provides a single database that can be distributed across such a cluster. You can easily scale up by adding a new machine to the cluster in a Linux environment, which will trigger DB2 to automatically redistribute data to the new partition. Your benefit? A powerful, reliable supercomputer for business or research at a fraction of the cost of a special purpose machine with equivalent capabilities.

Self-managing database technology leads to lower cost of ownership

Not only does DB2 Universal Database for Linux support migration from small to large platforms, it also enables you to easily port an application from a single PC to a clustered server environment—without the need for recoding. And because DB2 supports multiple platforms—such as IBM AIX®, Microsoft® Windows NT®, HP-UX, Linux or Sun's Solaris Operating Environment—you can develop a DB2 application on one platform and easily migrate it to another. With this level of scalability and portability, your business can grow from ten employees to tens of thousands—and remain on the same reliable DB2 Universal Database for Linux at the backend.

Proven performance in a single solution

When you run DB2 Universal Database on the Linux platform, you can expect the high performance your business needs for its growth. Used for business intelligence, DB2 for Linux leads in performance among 100GB databases in the Transaction Processing Performance Council's decision-support benchmark (TPC-H™)[1].

A variety of features in DB2 contribute to its performance achievements:

- *Support for symmetric multiprocessing (SMP), binary large objects, online analytical processing (OLAP) functions and Web standards (including Java™ technology and HTTP server access)*
- *IBM DB2 Net Search Extender for high-speed, in-memory search capabilities*
- *Ability to create tablespaces and logs on raw partitions for enhanced performance and to take advantage of support for file sizes larger than 2GB when using the Linux 2.4 kernel.*

DB2 is easy to install and manage, with features for self-administration, self-tuning and self-healing—a prime consideration when you need to maximize your DBA resources. What's more, its DB2 Control Center provides a central, Web-based control point for managing your DB2 servers.

Why DB2 is powering the world's e-business solutions

Its rich functionality makes DB2 Universal Database for Linux an optimal platform for e-business. Whether you maintain a large online catalog or run a high-transaction volume environment, DB2 can help you leverage the efficiencies of e-business for interacting with your customers, suppliers and partners.

To support your e-business development environment, DB2 Universal Database for Linux includes:

- *Support for Java 2 Platform, Enterprise Edition (J2EE), XML and SQL*
- *Backing for the InfiniBand I/O industry specification and DAT file format*
- *Itanium processor support*
- *Stored procedures, data encryption and globalization*
- *Federated data access and embedded analysis capabilities*
- *Advanced query rewrite and multiple optimization levels*
- *Productivity tools for visual development and migration.*

"IBM's decision to make DB2 Universal Database and the S/390 compatible with Linux testifies to the company's dedication to providing the robustness, scalability and reliability that customers really want."

—Rich Smrcina, Data Center Manager, Grede Foundries, Inc.

Essential Systems tracks warehouse assets to uncover new savings

DB2 software customer ranks include pioneering software developers such as Essential Systems. Based in Pittsburgh, Pennsylvania, Essential Systems, also an IBM Business Partner, has made a name for itself by developing value-added distributed computing solutions using handheld devices and hardware devices with embedded software. Insurance Restoration Services, a provider of disaster remediation and church and historical restoration services, turned to Essential Systems for a way to keep closer track of expensive tools in its warehouse. Using DB2 Everyplace on Palm Pilot devices, IBM DB2 Everyplace Sync Server and, as the central data source, DB2 Universal Database for Linux, Essential Systems created a mobile tool-tracking solution that is helping Insurance Restoration Services save an expected $20,000 annually.

Grede Foundries lowers TCO with DB2 for Linux

Based in Milwaukee, Wisconsin, Grede Foundries, Inc. is a manufacturer of iron and steel castings for the automotive and heavy-equipment industries and

an enthusiastic fan of DB2 for Linux. Burdened by too many servers consuming too much power, floor space and valuable IT resources, Grede worked with IBM to consolidate its servers onto an IBM S/390 Multiprise 2000 server. The company also deployed DB2 Universal Database and IBM DB2 Connect™ running Linux to serve as a gateway between its local area network (LAN) and its host data on IBM VSE/ESA™. As a result, Grede has lowered its TCO and is enjoying better system performance.

Dedicated to Linux

IBM today ships the largest volume of e-business software for Linux, a testament to its full commitment to Linux and the open-source community. DB2 software for Linux means:

- *Flexibility—through support of open standards*
- *Reliability—since it is based on the proven technology of DB2 Universal Database*
- *Cost effectiveness—because its cross-platform portability protects skills investments and facilitates hardware choices.*

IBM's commitment to Linux is exemplified in the array of software solutions it has extended to the Linux platform. In addition to DB2 data management software, IBM also offers WebSphere® infrastructure software for dynamic e-business, Lotus® collaboration, e-learning and knowledge-enabling software and Tivoli® technology management software.

IBM independent software vendors (ISVs) provide another source of business applications that utilize DB2 for Linux. For example, ACCPAC has a complete business management solution, SAP offers enterprise resource planning software and MarCole has developed a retail solution based on DB2 for Linux. For risk management, Axiom provides a solution that works with DB2 for Linux, and for business intelligence, Dimensional Insight, SAS and Hyperion have offerings. Other IBM ISVs with solutions that can help optimize DB2 for Linux include Bunker Hill, Legato, Quest, Rational Software and SteelEye.

Services and support get you up and running quickly

To help you reap maximum value from your DB2 for Linux implementation, IBM offers an extensive array of services as well as unparalleled technical support, 24 hours a day, 7 days a week. By working with IBM data management specialists or IBM Business Partners, you can benefit from the expertise of experienced professionals. For continued education, IBM offers an array of computer-based training (CBT) and classroom courses covering DB2 for Linux. For more information, visit **ibm.com**/linux/education. If you are an experienced DBA and would like to get up to speed quickly on DB2, please visit **ibm.com**/software/data/db2/selfstudy to download a free CBT course.

Once you've got DB2 in your environment, you can take advantage of an array of affordable, function-rich tools designed to help you maintain and optimize DB2. IBM DB2 Table Editor for Multiplatforms, for example, lets you update, create and delete data across multiple DB2 database platforms. With IBM DB2 Web Query Tool for Multiplatforms, you can foster

rapid access to your enterprise's business information from any location. For more information about IBM Data Management Tools, visit **ibm.com**/software/data/db2imstools.

Your business is dynamic and you need a data management solution that can match your growth. By pairing the scalable, function-rich DB2 Universal Database with one of the market's most reliable and stable operating systems, you can build an e-business infrastructure that can take your business to new heights. Whether you want a dynamic e-business, business application integration, access to integrated information or all of the above, DB2 Universal Database for Linux is ready to perform, wherever your business takes you.

For more information

Contact your IBM marketing representative or IBM authorized software reseller, or visit our Web site at **ibm.com**/software/data/db2/linux

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