IBM posts best 4-way server performance result on industry-standard TPC-H 300GB benchmark

April 8, 2005 ... IBM® today published a leadership 4-way performance result on Linux®. Using the 64-bit Intel® Xeon™ Processor MP, the IBM @server® xSeries® 366 server and IBM DB2® Universal Database™ V8.2, have delivered the highest 4-way performance result ever achieved on the TPC-H 300GB benchmark. The TPC-H benchmark models a decision-support system for business intelligence applications.

Showcasing a 64-bit solution, the x366 and DB2 UDB achieved a Composite Query-per-Hour metric of 7,762.2 QphH@300GB and price/performance of $33/QphH@300GB. (1) These results rank in the Top Ten TPC-H by Performance and the Top Ten TPC-H by Price/Performance for the 300GB database. (2)

The 64-bit capabilities of the x366 server were fully exploited using 64-bit versions of DB2 UDB and SUSE Linux Enterprise Server 9 (SLES9). The x366 server used four 64-bit Intel Xeon Processors MP at 3.66GHz with a 1MB L2 cache, and ran IBM DB2 Universal Database V8.2 (64-bit) and SUSE Linux Enterprise Server 9 (64-bit).

In February 2005, the x366 and DB2 UDB delivered top 4-way TPC-H results on Microsoft® Windows® Server 2003 Enterprise Edition using the 32-bit capability of the 64-bit Intel Xeon Processor MP.

Results referenced are current as of April 8, 2005. To view all TPC results, visit www.tpc.org.

About the x366 Server

The IBM eServer xSeries 366 delivers outstanding performance, extremely low latency and high availability and manageability, along with advanced integrated technologies that help protect your IT investment. The x366 is the first xSeries system designed with IBM eServer X3 Architecture, the third generation of mainframe-inspired IBM Enterprise X-Architecture Technology, and 64-bit Intel Xeon Processors MP. With simultaneous 32- and 64-bit software compatibility provided by Intel Extended Memory 64 Technology (Intel EM64T), the x366 also helps protect the value of your software investment with a framework that supports new 64-bit enterprise applications, along with 32-bit legacy applications and system tools as well.

Whether you are deploying today or developing for tomorrow, the dual-core-capable IBM eServer x366 is the development platform of choice combining proven industry-standard compatibility on the most widely deployed server instruction set architecture in the world to power the transition to 64-bit compatible x86 applications and take advantage of the future of multi-core x86 processors.

For information about the x366 server, visit www.ibm.com/eserver/x366.

About DB2 UDB

IBM DB2 UDB continues to improve the performance and scalability of the information management infrastructure with Linux. DB2 UDB exploits the power of full 64-bit database solutions for Linux on the x86-64 platforms and overcomes memory limitations to scale Linux-based database applications to new levels. DB2 UDB V8.2 also leverages Linux-specific capabilities to achieve the maximum performance, including SMP exploitation, processor affinity, raw I/O, Direct I/O and large page support, and takes advantage of the advanced capabilities in the Linux 2.6 kernel. With DB2 UDB for Linux, IBM offers excellent price/performance and delivers lower total cost of ownership for customers looking for entry-level to advanced information-management solutions.

For information about DB2 UDB, visit www.ibm.com/db2.

(1) Total solution availability is May 2, 2005.