

IBM sets new world record for 4-way x86-64 system performance on TPC-C benchmark

March 29, 2005 ... IBM® continues to build on its reputation for leadership performance in the high-end Intel® processor-based server market. The new IBM eServer® xSeries® 366 server, using the latest 64-bit Intel Xeon™ Processor MP, and 64-bit IBM DB2® UDB have delivered superior results on the industry-standard TPC-C benchmark.

The x366 server and DB2 UDB achieved 150,704 tpmC, setting a new world record for 4-way x86-64 system performance on the TPC-C online transaction processing benchmark. (1) This result, achieved by the winning combination of the x366 and DB2 UDB, demonstrates the benefits of the IBM 64-bit hardware/software solution for enterprise OLTP applications.

The x366 server's TPC-C benchmark performance result is 15 percent higher than the 130,623 tpmC achieved by the HP ProLiant DL585. (2) The ProLiant DL585 used four AMD Opteron 2.6GHz processors, each with 1MB cache, and ran Microsoft SQL Server 2000 Enterprise Edition and Microsoft Windows Server 2003 Enterprise Server with SP1.

For this benchmark, 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 8.2 (64-bit) and Microsoft® Windows® Server 2003 Enterprise x64 Edition.

Results referenced are current as of March 28, 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 on the Windows platform. With V8.2, DB2 UDB delivers the power of full 64-bit database solutions for Microsoft Windows Server 2003 x64 Editions. DB2 UDB 64-bit support overcomes limitations to take full advantage of system memory and to scale Windows-based database applications to new levels. DB2 UDB also leverages Windows-specific capabilities to achieve the maximum performance, including SMP exploitation, processor affinity, raw I/O, and hyperthreading. With the delivery of full 64-bit support for the x86-based server platforms on Windows and Linux, DB2 continues to improve price/performance and deliver lower total cost of ownership for customers looking for advanced information-management solutions.

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

(1) Price/performance of \$5.99/tpmC and total solution availability of August 20, 2005.

(2) ProLiant DL585: 130,623 tpmC, \$2.80/tpmC, availability of May 6, 2005. Competitive benchmark results referenced reflect results published on www.tpc.org as of March 28, 2005. Comparisons are based on the published tpmC scores for these 4-way servers.

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