IBM shatters all records for x86 server performance on the TPC-C benchmark

IBM® System x™ 3950 M2 delivers more transactions per minute than any other x86 server

October 23, 2007 ... IBM has delivered a new world record for x86 server performance on the TPC-C benchmark. The IBM System x™ 3950 M2 server, leveraging IBM's exclusive fourth-generation X-Architecture® and powered by the Quad-Core Intel® Xeon® Processor X7350, has posted the highest TPC-C result ever achieved by an x86-based server, regardless of processor count.

The x3950 M2 server, using 8 processors, achieved 841,809 tpmC on the TPC-C online transaction processing benchmark. (1) This result represents nearly 62% more transactions per minute when compared to the Unisys ES7000/one Enterprise Server's 8-processor result of 520,467 tpmC. (2)

Compared to the Unisys ES7000/one Enterprise Server's 16-processor result of 749,839 tpmC, the x3950 M2 delivers an impressive 12% more transactions per minute using half the processors. (3)

And the x3950 M2's result is more than double the performance of the HP DL580G5's recently published 4-processor result of 407,079 tpmC. (4)

For this benchmark result, the x3950 M2 server used the Quad-Core Intel Xeon Processor X7350 at 2.93GHz with 2 x 4MB L2 cache per processor (8 processors/32 cores/32 threads) and ran Microsoft® SQL Server 2005 Enterprise x64 Edition (SP2) and Microsoft Windows® Server 2003 R2 Enterprise x64 Edition (SP2). The x3950 M2 accessed the database via the IBM System Storage™ DS4800 subsystem, which attached a total of 48 terabytes of Fibre Channel storage.

Results referenced are current as of October 23, 2007. To view all TPC benchmark results, visit www.tpc.org.

(1) IBM System x3950 M2 with the Quad-Core Intel Xeon Processor X7350 2.93GHz (8 processors/32 cores/32 threads), 841,809 tpmC, $3.46 USD / tpmC, total solution availability of April 1, 2008.

(2) Unisys ES7000/one Enterprise Server with the Dual-Core Intel Xeon Processor 7140 3.4GHz (8 processors/16 cores/32 threads), 520,467 tpmC, $2.73 USD / tpmC, availability of May 1, 2007.

(3) Unisys ES7000/one Enterprise Server with the Dual-Core Intel Xeon Processor 7041 at 3.0GHz (16 processors/32 cores/64 threads), 749,839 tpmC, $3.33 USD / tpmC, availability of June 12, 2006.

(4) HP ProLiant DL580G5 with four Intel Xeon Processor X7350 2.93GHz (4 processors/16 cores/16 threads), 407,079 tpmC, $1.71 USD / tpmC, availability of September 5, 2007.