

IBM System x3850 M2 and DB2 set world record for 4-processor system performance on TPC-C benchmark

x3850 M2 and DB2® 9.5 achieve nearly 27% more transactions per minute than HP ProLiant DL580G5

October 15, 2007 ... IBM® has published the highest TPC-C performance result ever achieved by a 4-processor server. The IBM System x™ 3850 M2 server and 64-bit IBM DB2 9.5 — running Linux® — have set a new record for 4-processor performance on the industry-standard TPC-C benchmark.

The x3850 M2 server and DB2 9.5 achieved 516,752 tpmC on the TPC-C online transaction processing benchmark. (1) The x3850 M2's tpmC represents nearly 27% more transactions per minute than the HP ProLiant DL580G5's recently published result. (2)

Leveraging IBM's exclusive fourth-generation Enterprise X-Architecture®, the x3850 M2 server used the Quad-Core Intel® Xeon® Processor X7350 at 2.93GHz with 2 x 4MB L2 cache per processor (4 processors/16 cores/16 threads), and ran DB2 9.5 (64-bit) and Red Hat Linux Advanced Server 5. The x3850 M2 accessed the DB2 database via the IBM System Storage™ DS3400 subsystem, which attached a total of 54.75 terabytes of SAS storage.

The new DB2 9.5 brings with it significant performance improvements due to the shift toward threaded engines and makes new strides in autonomic computing with enhanced Self-Tuning Memory Manager, additional autonomics, and enhanced deep compression capability among many other features and scalability enhancements.

With the entire IBM Systems product line enabled to support Linux operating systems, now any size business can take advantage of the power of open standards. This TPC-C performance result demonstrates that customers can implement Linux with IBM systems, software and/or services to deliver superior performance and scalability, as well as flexibility and lower total cost of ownership.

The DS3400 Express model is designed and priced to enable businesses to consolidate and share data in a direct-attach or SAN solution that meets their needs for data expansion, data availability and flexibility in a simple, affordable disk system.

Results referenced are current as of October 15, 2007. To view all TPC benchmark results, visit www.tpc.org.

(1) IBM System x3850 M2 with the Quad-Core Intel Xeon Processor X7350 2.93GHz (4 processors/16 cores/16 threads), 516,752 tpmC, \$2.59 USD / tpmC, availability of March 14, 2008.

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

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