

IBM publishes world-record, 4-processor performance result for TPC-H at 1000GB

IBM System x3850 X5 with MAX5 achieves world-record price/performance for a non-clustered server on TPC-H 1000GB benchmark

March 3, 2011 ... IBM® has published the highest 4-processor result ever achieved on the TPC-H® 1000GB benchmark, demonstrating the leadership performance that is possible with the combined power of IBM's exclusive eX5, the fifth-generation X-Architecture®, and the Intel® Xeon® 7500 Series processor technology.

The IBM System x®3850 X5 server, leveraging IBM's exclusive fifth-generation X-Architecture and powered by the Intel Xeon Processor X7560, achieved 101,719.3 QphH @ 1000GB and \$1.76 USD / QphH@1000GB on the TPC-H business intelligence benchmark. (1) The x3850 X5's price per QphH @ 1000GB is the lowest achieved to date by a non-clustered server.

The x3850 X5 achieved this result using Microsoft® SQL Server 2008 R2 Enterprise x64 Edition and Microsoft Windows® Server 2008 R2 Enterprise x64 Edition. The x3850 X5 server was configured with four Intel Xeon X7560 processors at 2.26GHz with 256KB L2 cache per core and 24MB shared L3 cache per processor (4 processors/32 cores/64 threads). The configuration used a total of 1.5TB of memory using the IBM MAX5 for System x.

The x3850 X5 server leverages fifth-generation IBM Enterprise X-Architecture, delivering innovation with enhanced reliability and availability features to enable optimal performance for databases, enterprise applications, and virtualized environments. The x3850 X5 is a versatile 4-socket, 4U rack-optimized scalable enterprise server that supports up to 1TB of memory, and up to 1.5TB when configured with IBM MAX5 for System x. In addition to higher levels of function than its predecessors, the x3850 X5 offers up to 8-socket (64-core) SMP operations with powerful 4-, 6-, and 8-core Intel Xeon MP processors and up to 1.5TB of system memory in a 4-socket (32-core) complex. This system is ideal for clients who require additional SMP capability or greater scalability for future growth.

Results referenced are current as of March 3, 2011. To view all TPC results, visit www.tpc.org. See the Executive Summary for this result:

<ftp://public.dhe.ibm.com/eserver/benchmarks/ibm.x3850X5-4p.tpc-h.2.13.0.es.030311.pdf>

(1) The configuration used to achieve these results is available March 3, 2011.

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