IBM posts leadership 4-processor result on Windows on two-tier SAP SD standard application benchmark

IBM® System x® 3850 X5 and DB2® 9.7 set world record with 4-processor result on Windows® on two-tier SAP® SD standard application benchmark

March 30, 2010 ... IBM today announced a leadership 4-processor result on Windows on the two-tier SAP® Sales and Distribution (SD) standard application benchmark. The result of 10,450 SAP SD benchmark users was achieved on the IBM System x3850 X5, configured with four Intel® Xeon® X7500 Series processors, and using the IBM System Storage™ DS4800 and running IBM DB2 9.7 and the SAP ERP application Release 6.0.

The x3850 X5 and DB2 9.7 have set a world record with this 4-processor result on Windows on the two-tier SAP SD standard application benchmark. This system has demonstrated 3.5 times the performance of the previous-generation systems configured with four Intel Xeon processors and running the same version of SAP ERP 6.0. (1)

The x3850 X5 achieved 10,450 SAP SD benchmark users with .98 seconds average dialog response time, 57,120 SAPS, measured throughput of 3,427,000 dialog steps per hour (or 1,142,330 fully processed line items per hour), and an average CPU utilization of 99 percent for the central server. (2)

For the benchmark, the x3850 X5 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), 256GB of memory, 64-bit DB2 9.7, Microsoft® Windows® Server 2008 Enterprise x64 Edition, and SAP ERP 6.0. The server accessed the DB2 9.7 database on the storage managed by an IBM System Storage DS4800 disk system. (3)

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. 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 3TB of system memory in an 8-socket (64-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 30, 2010. For the latest SAP benchmark results, visit http://www.sap.com/benchmark.

(1) Statement of comparison is based on highest-performing system using four Intel Xeon X7460 processors and running the SAP enhancement package 4 for SAP ERP 6.0 (Unicode). Configuration of the NEC Express5800 Model R140a-4 on the two-tier SAP SD standard application benchmark: 4 processors/24 cores/24 threads, Intel Xeon Processor X7460, 2.66 GHz, 64 KB L1 cache per core, 3MB L2 cache per 2 cores, 16 MB L3 cache per processor, 64GB main memory, Windows Server 2008 Enterprise Edition, SQL Server 2008, SAP Business Suite software: SAP enhancement package 4 for SAP ERP 6.0 (Unicode). A result of 2,957 SAP SD benchmark users was achieved. Certification number 2009018.

(2) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2010012. Details can be obtained from IBM and SAP. The benchmark was performed at IBM in Research Triangle Park, NC, USA, by IBM engineers.

(3) The IBM System x3850 X5 is planned to be generally available March 31, 2010.