IBM posts world-record result on Windows on two-tier SAP SD standard application benchmark

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

October 11, 2010 ... IBM today announced a world leadership result on Windows on the two-tier SAP Sales and Distribution (SD) standard application benchmark. The result of 19,700 SAP SD benchmark users was achieved on the IBM System x3850 X5, configured with eight Intel® Xeon® X7560 processors, and using the IBM System Storage™ DS4800 and running IBM DB2 9.7 and SAP enhancement package 4 for the SAP ERP application Release 6.0.

The x3850 X5 and DB2 9.7 have achieved the best-ever result on Windows on the two-tier SAP SD standard application benchmark. The x3850 X5 achieved 19,700 SAP SD benchmark users with 0.92 seconds average dialog response time, 108,270 SAPS, measured throughput of 6,496,000 dialog steps per hour (or 2,165,330 fully processed line items per hour), and an average CPU utilization of 99 percent for the central server. (1)

This overall world-record result on Windows beats—by more than 8 percent—NEC's result of 18,185 SAP SD benchmark users on the NEC Express5800 Model A1080a-E. The x3850 X5's result also beats—by more than 7 percent—Fujitsu's recent result of 18,310 SAP SD benchmark users on the Fujitsu PRIMEQUEST 1800E. Finally, the x3850 X5's result beats—by more than 5 percent—HP's recent result of 18,635 SAP SD benchmark users on the HP ProLiant DL980 G7. (2)

The x3850 X5 was configured with eight Intel Xeon X7560 processors at 2.26GHz with 256KB L2 cache per core and 24MB shared L3 cache per processor (8 processors/64 cores/128 threads), 512GB of memory, 64-bit DB2 9.7, Microsoft® Windows® Server 2008 R2 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.

Results referenced are current as of October 11, 2010. For the latest SAP benchmark results, visit: http://www.sap.com/benchmark.

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2010044). Details can be obtained from IBM and SAP. The benchmark was performed at IBM in Research Triangle Park, NC, USA, by IBM engineers.

(2) Statements of comparison are based on highest-performing system using eight Intel Xeon X7560 processors and running SAP enhancement package 4 for SAP ERP 6.0.

- NEC Express5800 Model A1080a-E on the two-tier SAP SD standard application benchmark: 8 processors/64 cores/128 threads, Intel Xeon Processor X7560, 2.26GHz, 256KB L2 cache per core, and 24MB L3 cache per processor, 512GB main memory, Windows Server 2008 R2 Enterprise Edition, SQL Server 2008, SAP enhancement package 4 for SAP ERP 6.0. Certification number 2010034.
- Fujitsu PRIMEQUEST 1800E on the two-tier SAP SD standard application benchmark: 8 processors/64 cores/128 threads, Intel Xeon Processor X7560, 2.26 GHz, 256 KB L2 cache per core, 24 MB L3 cache per processor, 768GB main memory, Windows Server 2008 R2 Datacenter Edition, SQL Server 2008, SAP enhancement package 4 for SAP ERP 6.0. Certification number 2010041.
- HP ProLiant DL980 G7 on the two-tier SAP SD standard application benchmark: 8 processors/64 cores/128 threads, Intel Xeon Processor X7560, 2.26GHz, 256KB L2 cache per core, and 24MB L3 cache per processor, 512GB main memory, Windows Server 2008 R2 Datacenter Edition, SQL Server 2008, SAP enhancement package 4 for SAP ERP 6.0. Certification number 2010040.