IBM announces leadership 4-way result for three-tier SAP SD Standard Application Benchmark

December 10, 2004 ... IBM® today announced a leadership 4-way result on the three-tier SAP® Sales and Distribution (SD) Standard Application Benchmark, running the SAP R/3® Enterprise Release 4.70 software solution. This result of 8,512 SAP SD Benchmark users was achieved by a complete IBM solution, comprised of IBM @server® BladeCenter® HS40 blade servers, IBM TotalStorage® DS4500, and IBM DB2® Universal Database v8.2.

The result of 8,512 SAP SD Benchmark users was achieved with 1.86 seconds average response time; 0.049 seconds average database request time; 2,583,000 dialog steps per hour; 861,000 fully business processed order line items per hour; 43,050 SAPS using R/3 Enterprise 4.70. (1)

IBM's result surpasses the previous best 4-way result on the three-tier SAP SD Benchmark solution achieved by the 4-way HP ProLiant DL580 G2 server and Microsoft® SQL Server 2000, which used the Intel® Xeon™ processors at 3.0GHz with 4MB L3 cache, and scored 8,016 SAP SD Benchmark users. (2)

The IBM system configuration was comprised of three BladeCenter chassis that held a total of 16 HS40 blade servers. Each blade server used four Intel Xeon processors at 3.0GHz with 4MB L3 cache, 8GB of memory.

One blade was used as the database server, which ran DB2 UDB v8.2 and SUSE Linux Enterprise Server 8, and had an average CPU utilization of 97 percent. The database blade accessed 792GB of disk space managed by an IBM TotalStorage DS4500. Access was via an IBM eServer BladeCenter Optical Pass-Thru Module installed in the BladeCenter chassis.

Fourteen blades were used as application servers, which ran SAP R/3 Enterprise 4.70 and SUSE Linux Enterprise Server 8, and had an average CPU utilization of 78 percent. One blade was used as the message server and ran SAP R/3 Enterprise 4.70 and SUSE Linux Enterprise Server 8.

The IBM eServer BladeCenter configuration provides a complete infrastructure for running the SAP R/3 Enterprise software solution. The innovative 7U modular design delivers the performance density and reliability for adding scale and capacity in rack-optimized server infrastructures. And its flexible design can help dramatically lower the deployment costs of adding business-critical application capacity in centralized IT environments. The rack-optimized BladeCenter holds up to 7 hot-swap HS40 blades with up to six enclosures in a 42U rack. Its breakthrough chassis design provides redundant and hot-swap components, helping ensure maximum uptime by eliminating single points of failure.

For more information regarding these results and SAP benchmarks, visit www.sap.com/benchmark.
For information about DB2, visit www.ibm.com/software.
For information about TotalStorage products, visit ibm.com/storage.

Results referenced are current as of December 10, 2004.

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2004074). Details can be obtained from IBM and SAP. The benchmark was performed at Research Triangle Park, North Carolina, USA, by IBM engineers.

(2) HP ProLiant DL580 G2, 4-way SMP, Intel Xeon 3.0GHz with 4MB L3 cache, running SAP R/3 Enterprise 4.70, and Microsoft SQL Server 2000 (32-bit) and Microsoft Windows® Server 2003 Enterprise Edition (32-bit), certification 2004017.