

## **IBM outperforms HP's 2-way blade server using Windows on two-tier SAP SD Standard Application Benchmark**

June 14, 2004 ... IBM® today announced a leadership 2-way 2-tier result on Windows for the IBM eServer® BladeCenter™ HS20 blade server running IBM DB2® Universal Database 8.1 on the two-tier SAP® Sales and Distribution (SD) Standard Application Benchmark, running the SAP R/3® Enterprise Release 4.70 solution. The BladeCenter HS20 blade used two Intel® Xeon™ processors at 3.2GHz with 2MB L3 cache, 6GB of memory, and Microsoft® Windows® Server 2003 Enterprise Edition.

This result sets a record for 2-way SD 2-tier results on Windows—outperforming the HP ProLiant BL20p G2's 2-way result, which was obtained using the same Intel Xeon 3.2GHz processor, Microsoft Windows Server 2003 and Microsoft SQL Server 2000.

The BladeCenter HS20 blade used DB2 UDB and Microsoft Windows Server 2003 to achieve 428 SAP SD Benchmark users with 1.99 seconds average dialog response time, measured throughput of 128,000 dialog steps per hour (or 42,670 fully processed line items per hour), and an average CPU utilization of 98 percent for the central server. (1)

The BladeCenter HS20 blade's result surpasses the result of 408 SAP SD Benchmark users achieved by the HP ProLiant BL20p G2, which used two 3.2GHz/2MB Intel Xeon processors and ran Microsoft SQL Server 2000 and Microsoft Windows 2003 Server Enterprise Edition. (2) The BladeCenter HS20 blade's result also beats the Sun Microsystems Sun Fire Model V20z's result of 410 SAP SD Benchmark users, achieved using Oracle 9i and SUSE Linux Enterprise Server 8. (3)

Results referenced are current as of June 14, 2004.

For the latest SAP benchmark results, visit [www.sap.com/benchmark](http://www.sap.com/benchmark). For information about DB2 visit [www.ibm.com/software](http://www.ibm.com/software).

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2004031). 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 BL20p G2, 2-way SMP, Intel Xeon 3.2GHz with 2MB L3 cache, running SAP R/3 Enterprise 4.70, and Microsoft SQL Server 2000 and Microsoft Windows Server 2003 Enterprise Edition, certification number 2004012.

(3) Sun Microsystems Sun Fire Model V20z, 2-way SMP, AMD Opteron 248 2.2GHz with 1MB L2 cache, running SAP R/3 Enterprise 4.70, and Oracle 9i and SUSE Linux Enterprise Server 8, certification number 2004025.

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