IBM

Performance Brief

xSeries 445 delivers high performance for running Java applications

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The IBM® @server™ xSeries® 445 features advanced function and 16-way SMP capability using high-performance Intel® Xeon™ MP processors at speeds up to 2.8GHz with 2MB L3 cache. (1) The x445 incorporates numerous Enterprise X-Architecture® design points to significantly enhance performance and reliability, making it ideal for advanced, mission-critical applications. Recent results on the SPECjbb2000 benchmark demonstrate the x445's ability to run Java applications in a SuSE Linux environment.

SPECjbb2000 (Java Business Benchmark) is SPEC's first benchmark for evaluating the performance of server-side Java. Joining the client-side SPECjvm98, SPECjbb2000 continues the SPEC tradition of giving Java users an objective and representative benchmark for measuring a system's ability to run Java applications.

SPECjbb2000 represents a middleware application written in Java. Hardware vendors can use the benchmark's results to analyze their platforms' scalability when running Java applications. Software vendors can evaluate the efficiency of their JVMs, JITs, garbage collectors and thread implementations.

The results and configuration details are summarized in the table.

Operations per Second (op/sec) Using SuSE Linux
128,556
Eight 2.8GHz Xeon MP Processors with 2MB L3 Cache
32GB Memory
One 18.2.4GB (2) 15K Ultra160 Disk Drive
JVM Version
J2RE 1.4.1 IBM build cxia32141-20030621
Operating System
SuSE Linux 8.0 Professional

These results are current as of June 30, 2003, and will be posted upon completion of SPEC review at www.spec.org, which contains a complete list of published SPECjbb2000 results.

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Notes

(1) GHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

(2) When referring to hard disk capacity, GB, or gigabyte, means one thousand million bytes. Total user-accessible capacity may vary depending on operating environment.