IBM

Performance Brief

New xSeries 360 delivers powerful performance for e-business applications

June 2003

The IBM® @server^{TM} xSeries® 360 servers are high-throughput, four-way SMP-capable servers that incorporate the powerful 2.0, 2.5 or 2.8GHz[1] Intel® Xeon^{TM} MP processor with quad-pumped 400MHz front-side bus (FSB) and full-speed 1MB or 2MB ECC L3 caches standard. All models share Enterprise X-Architecture® function packaged in a compact 3U, rack-optimized footprint that provides an attractive, cost-saving solution where large numbers of rack-installed servers are required to handle complex, compute-intensive solutions, such as business intelligence, transaction processing, Internet or intranet front-end serving and Web content serving.

The SPECweb99_SSL[2] benchmark was used to measure the x360 server's performance using four 2.8GHz Xeon MP processors.

IBM @server xSeries 360
SPECweb99_SSL - Conforming Simultaneous Connections
2,174
System Hardware
4 x 2.8GHz Xeon MP Processors with 2MB L3 Cache
16GB Memory
14 x 18.2GB 15K Ultra160 Disk Drives
IBM ServeRAID-6M Ultra320 SCSI Adapter
Operating System and HTTPS Software
Red Hat Linux 7.3
Zeus V4.2r2
Network Hardware
One Intel PRO 1000-T Ethernet Controller
Nortel Networks 8010 Switch

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 SPECweb99_SSL results.

Notes

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

(2) SPECweb99_SSL, a new benchmark released in April 2002, adds Secure Sockets Layer (SSL) Protocol support to SPECweb99, the acknowledged worldwide standard for web server performance evaluation. It tests secure Web server performance using HTTP 1.0/1.1 over the SSL Protocol. It is an extension of, rather than a replacement for, SPECweb99. SPECweb99_SSL adopts an industry-accepted workload to measure the performance capabilities of a web server with added SSL encryption/decryption. The benchmark's metric represents the number of simultaneous connections that a secure Web server can support while meeting specific throughput and error-rate requirements.