



Performance Brief

xSeries 345 delivers powerful performance for Web-serving applications

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The IBM® @server™ xSeries® 345 servers are high-throughput, two-way SMP-capable Xeon processor-based servers. They deliver excellent scalability for adding memory, adapter cards, or multiple processors. The x345 now incorporates the powerful 3.06GHz Intel® Xeon™ processor with a 1MB L3 cache and a 512KB integrated full-speed ECC L2 cache.

The SPECweb99_SSL benchmark was used to measure the x345 server's performance in a configuration that used two 3.06GHz Xeon processors. The SPECweb99_SSL¹ results and configuration details are summarized below.

SPECweb99_SSL - Conforming Simultaneous Connections
IBM @server xSeries 345
1,382
System Hardware
Two 3.06GHz Xeon Processors with 512KB L2 Cache and 1MB L3 Cache
8GB Memory
Six 36.4GB 15K Ultra320 Disk Drives
Embedded LSI SCSI Controller
Operating System and HTTPS Software
Red Hat Linux 7.3
Zeus V4.2r2
Network Hardware
One Embedded Gigabit Controller
Nortel Networks Gigabit Switch

These results are current as of August 8, 2003. The SPECweb99_SSL report for the x345 server, along with a complete list of SPECweb99_SSL results, can be viewed at www.spec.org.

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Notes

(1) 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.