IBM

Performance Brief

xSeries 305 delivers powerful performance for e-business applications

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The IBM® @server xSeries® 305 server is a 1U system designed for Web and network infrastructures. A single Intel® Pentium® 4 processor provides outstanding performance to meet growing application needs that include caching, load balancing, firewalls, encryption and static Web content serving. Affordable performance and a depth less than 17 inches make the ultra-dense x305 the smart solution for front-end Web infrastructure in the service provider and telecommunications markets.

The SPECweb99_SSL[2] benchmark was used to measure the x305 server's performance using a 3.06GHz[1] processor. The results and configuration details are summarized below.

IBM @server xSeries 305
SPECweb99_SSL - Conforming Simultaneous Connections
1,015
System Hardware
1 x 3.06GHz Pentium 4 Processor with 512KB L2 Cache
4GB Memory
14 x 18.2GB 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
Extreme Networks Summit 7i Gigabit Switch

These results are current as of May 13, 2003. The SPECweb99_SSL results for the x305 server using the 3.06GHz processor will enter the SPEC review cycle on May 27. Upon completion of a successful review, these results will be posted on June 10 at www.spec.org, which contains a complete list of published SPECweb99_SSL results.

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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.