# Performance Brief

## *New xSeries 235 delivers powerful performance for e-business applications*

**April 2003**

*The IBM® @server xSeries™ 235 servers are high-throughput, two-way SMP-capable Xeon Processor-based servers powered and scaled for e-business growth. They deliver excellent scalability for adding memory, adapter cards, or multiple processors. They incorporate the powerful 2.67, 2.8 and now the 3.06GHz[1] Intel® Xeon™ Processor with 512KB integrated full-speed ECC L2 cache and a 533MHz front side bus (FSB).*

*The SPECweb99_SSL benchmark was used to measure the x235 server's performance in configurations that used two 3.06GHz and 2.8GHz Xeon Processors. The SPECweb99_SSL[2] results and configuration details are summarized below.*

| **IBM @server xSeries 235** | |
|---|---|
| **SPECweb99_SSL - Simultaneous Connections** | |
| **1,799** | **1,740** |
| **System Hardware** | |
| 2 x 3.06GHz Xeon Processor with 512KB L2 Cache | 2 x 2.8GHz Xeon Processor with 512KB L2 Cache |
| 6GB Memory | 6GB Memory |
| 6 x 36.4GB 15K Ultra320 Disk Drives | 6 x 36.4GB 15K Ultra320 Disk Drives |
| Embedded LSI SCSI Controller | Embedded LSI SCSI Controller |
| **Operating System and HTTPS Software** | |
| Red Hat Linux 7.3 | Red Hat Linux 7.3 |
| Zeus V4.2r2 | Zeus V4.2r2 |
| **Network Hardware** | |
| One Embedded Gigabit Controller | One Embedded Gigabit Controller |
| Extreme Networks Summit 7i Gigabit Switch | Extreme Networks Summit 7i Gigabit Switch |

These results are current as of April 21, 2003. The SPECweb99_SSL results for the x235 server using the 3.06GHz processor will complete SPEC review on May 13; the results for the x235 server using the 2.8GHz processor will complete SPEC review on May 27. Upon successful review, these results will be posted at www.spec.org, which contains a complete list of published SPECweb99_SSL results.

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**Trademarks**



**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.