IBM posts leadership single-socket score on SPECweb2005 benchmark

October 4, 2005 ... The IBM® @server® xSeries® 306m | IBM's affordable, easy-to-use rack server for Web and network infrastructure | delivered a leadership single-socket score running SPECweb2005. The x306m server achieved a supermetric score of 2,151 which is derived from the submetric scores of the three workloads measured:

- SPECweb2005_Banking - 3,870 simultaneous sessions
- SPECweb2005_Ecommerce - 2,640 simultaneous sessions
- SPECweb2005_Support - 2,160 simultaneous sessions

The x306m achieved these results using a single-socket, dual-core Intel® Pentium D™ model 830 at 3.0GHz with 800MHz front-side bus (FSB) and 1MB L2 cache per core. The x306m also used 8GB of memory, 64-bit SUSE® Linux® Enterprise Server 9 SP1 operating system, SunJava 1.5.0-04 Java Virtual Machine 64-bit Zeus Web Server V4.2r4 HTTPS software, and Apache Tomcat 5.5.9.

The x306m server's score is 23 percent higher than the score of 1,744 simultaneous sessions achieved by the Dell PowerEdge 850, which used a single-socket, dual-core Intel Pentium D at 3.2GHz model 840 with 800MHz FSB and 1MB L2 cache per core.

About SPECweb2005

SPECweb2005 is a software benchmark product developed by the Standard Performance Evaluation Corporation (SPEC), a non-profit group of computer vendors, system integrators, universities, research organizations, publishers, and consultants. It is designed to measure a system's ability to act as a Web server servicing static and dynamic page requests.

SPECweb2005 is the successor to SPECweb99 and SPECweb99_SSL. The benchmark enables the measurement of both SSL (secure socket layer) and non-SSL request/response performance, and it continues the tradition of giving Web users the most objective and representative benchmark for measuring Web server performance.

Rather than offering a single benchmark workload that attempts to approximate the breadth of Web server workload characteristics found today, SPECweb2005 has chosen a benchmark design that incorporates three workloads: banking, e-commerce and support. Additionally, the change from a concurrent connection -based workload metric to a simultaneous session-based workload metric is intended to offer a more direct correlation between the benchmark workload scores and the number of users a Web server can support for a given workload.

The reported metric, SPECweb2005, is derived from a set of compliant results from all three workloads in the suite:

- Banking, where all the requests use HTTPS (SSL)
- Ecommerce, which includes both HTTP and HTTPS requests
- Support, which uses only HTTP requests

The SPECweb2005 metric is a "supermetric" that is the geometric mean of the three normalized submetrics for each workload. The normalized submetric for a given workload is defined as the ratio or the workload metric for the SUT to the workload for the reference platform multiplied by 100.

For more details about the benchmark and to view other results, go to www.spec.org.

Results, current as of October 4, 2005, have been submitted to SPEC for review and will be posted on their Web site upon successful completion of the review. For all SPECweb2005 benchmark results, visit www.spec.org.

IBM, the IBM logo, the eServer logo and xSeries are trademarks or registered trademarks of International Business Machines Corporation.
Intel and Pentium are trademarks or registered trademarks of Intel Corporation.
Java is a trademark or registered trademark of Sun Microsystems, Inc., in the United States and other countries.
Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.
SPEC and SPECweb2005 are trademarks of Standard Performance Evaluation Corporation.
All other company/product names and service marks may be trademarks or registered trademarks of their respective companies.