

Test scenario	Updates per second	
	Traditional topology [†]	Optimized topology ^{††}
Throughput for a single source distributor server	860,000	1,350,000
Throughput for a single point-to-point server with no fan-out	820,000	1,100,000
Maximum throughput with 1 millisecond or less of end-to-end latency	300,000	300,000
Outbound user throughput in the most extreme point-to-point server fan-out test	1.8 million [†]	4.0 million

[†]Traditional configuration: single instance of a given RMDS process on a given machine

^{††}Optimized configuration: a stacked configuration that exploits multiple cores by running multiple instances of RMDS processes

Intel® architecture-based platform running Reuters Market Data System* on Red Hat® Enterprise Linux® sets record for high throughput at very low latency

RMDS 6.0 surpassed previous two-way benchmarks and set a record of 4 million updates per second with a multi-core optimized server configuration. “Our tests of this system show that more data can be distributed to more users with fewer servers than in previous benchmarks,” says Peter Lankford, director of STAC.

Lankford adds, “The performance of the multi-core optimized configuration triples the previous public benchmark for point-to-point data fan-out on a two-socket system. In fact, it actually surpasses the previous record benchmarks set by four-socket servers. Thus, the Intel/Red Hat platform is very compelling.”

Data center real estate is a good investment again

By increasing the computing power available from a given amount of data center space, these HP ProLiant servers extend the reputation of Intel platforms for driving down the cost of computing. Compared to single-core Intel Xeon processors, the latest Dual-Core Intel Xeon 5100 Sequence processors achieve 3x performance gain while reducing power consumption from 110 watts to 80 watts or less.

Scalability extends the life of the investment

Ongoing Intel innovations are expected to enable the RMDS computing platform to scale as the amount of market data increases. For example, quad-core Intel processors are expected to provide even greater performance and price/performance without taking more space within the data center. Says Michael Parlapiano, executive vice president of Reuters Enterprise Information Management Solutions, “We expect to see

dramatically improved performance using Intel® quad-core processors in the months ahead and will continue to deliver the solutions that allow our customers to stay on top of microsecond-to-microsecond market changes.”

Intel® I/O Acceleration Technology, designed to minimize the affects of network I/O on Intel Xeon processors, can increase throughput by freeing processor cycles for RMDS processing. Such advances will continue the tradition of leadership that established the Intel/HP/Red Hat platform as the pinnacle of financial market data delivery performance.

For more information about Intel-Red Hat programs and solutions, please visit accelerate.108.redhat.com

For more information about the Reuters Market Data System, visit about.reuters.com/productinfo/rmnds

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[†] This result is 1.8 times better than the best previous published benchmark for a traditional RMDS topology: 1 million updates per second set by Sun Microsystems, Inc., June 2006 (http://www.sun.com/third-party/global/reuters/collateral/perf_x86_s10u1-v1-1-1.pdf). To learn more about the testing, visit www.STACresearch.com.