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Mellanox and Bon Trade Benchmark Over 598 Million Messages a Second Over RDMA on Windows Server 2008 R2

Benchmark achieved while testing RDMA messaging across Mellanox's FDR 56Gb/s InfiniBand interconnect solutions and HP Proliant Gen8 servers

SIFMA, N.Y.--(BUSINESS WIRE)-- Mellanox® Technologies, Ltd. (NASDAQ:MLNX) (TASE:MLNX), a leading supplier of high-performance, end-to-end interconnect solutions for data center servers and storage systems, today announced a benchmark result of over 598 million messages a second achieved in the HP low-latency lab in Houston, TX. Mellanox and Bon Trade Solutions achieved the result while testing RDMA messaging used in enterprise trading and pre-trade risk systems across a Mellanox InfiniBand network on HP Proliant Generation 8 (Gen8) servers running Windows Server 2008 R2.

Message rates as high as 598.4 million messages a second were produced with single digit microsecond latency. The testing included various workload scenarios, demonstrating the advantages of high bandwidth provided by two Mellanox ConnectX®-3 InfiniBand adapters connected to a Mellanox SwitchX® based FDR 56Gb/s InfiniBand switch. The test used all 16 processor cores on each of two HP Proliant DL 380 Gen8 servers. A full report of the test is available at www.bon-trade.com/mellanox.

Bon Trade's RMC RDMA messaging provides clients with numerous benefits. The ultra-high messaging rate enables Bon Trade to process huge amounts of quote data for their pre-trade risk calculations. RMC messaging also increases the system's ability to handle huge order bursts from the electronic trading community. The use of RDMA across InfiniBand substantially reduces the latency of internal network hops necessary for a high availability system. Clients will see improved execution rates as their orders are consistently processed in a few microseconds. Leveraging this new technology can substantially reduce datacenter foot prints as a full enterprise trading system can now be deployed with half the servers previously required.

"Data path independence is one of the most impressive aspects of using RDMA over Mellanox's InfiniBand hardware," said Thomas McSherry, Chief System Architect of Bon Trade Solutions. "Message throughput scaled almost perfectly across all sixteen cores. We could literally predict the message rate by plugging in the source and destination CPU clock speeds. Message flow behaved like a liquid. The predictability and single-digit microsecond latency of RDMA over Mellanox's hardware will translate directly into higher execution rates for our clients. The independence of the data path means we can predictably build and configure client systems that meet their requirements and budget."

"These performance results highlight the continued success of the Microsoft, Mellanox Technologies and Bon Trade Solutions relationship in delivering ultra-high performance, low latency trade messaging," said Joe Pagano, worldwide managing director, Banking and Capital Markets, Microsoft. "These exciting results show how we are working together to meet the needs of our customers in maximizing trading efficiency at a low TCO."

"The addition of RDMA capabilities to Windows Server 2008 R2 opens up many new opportunities for ISVs and traders alike," said Amir Prescher, VP of Business Development at Mellanox Technologies. "Together with Microsoft and Bon Trade, we have created a system for the high frequency and electronic trading community that offers unprecedented message rates, low latencies and high scalability on Windows Server 2008 R2."

Supporting Resources:

- Read [Bon Trade Benchmark Report](#)
- Learn more about Mellanox InfiniBand [Switches](#) and [Adapter Cards](#)
- Learn more about Mellanox [Switch Management](#) and [Storage Fabric Software](#)
- Learn more about Mellanox [Copper and Fiber Cables](#)
- Learn more about [Mellanox's complete financial trading solutions](#)
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About Bon Trade

Bon Trade Solutions is an innovative Independent Software Vendor offering pre-trade risk managed order routing gateways

and products that complement the trade lifecycle process. Our best in industry, market proven systems are designed to handle the current and future demands of global electronic markets. More information is available at www.bon-trade.com

About Mellanox

Mellanox Technologies (NASDAQ:MLNX, TASE:MLNX) is a leading supplier of end-to-end InfiniBand and Ethernet interconnect solutions and services for servers and storage. Mellanox interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance capability. Mellanox offers a choice of fast interconnect products: adapters, switches, software and silicon that accelerate application runtime and maximize business results for a wide range of markets including high performance computing, enterprise data centers, Web 2.0, cloud, storage and financial services. More information is available at www.mellanox.com.

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