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Mellanox and Micron Announce 40 Gigabit Ethernet Flash Storage Solution to Accelerate Storage in Virtualized Data Centers

iSCSI RDMA over Mellanox's 40 Gigabit Ethernet boosts storage performance and enables application acceleration in the cloud

SAN FRANCISCO--(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, and Micron, today announced a collaborative solution to enable higher storage performance and efficiency for virtualized environments using VMware's ESXi 5.1. The solution consists of Mellanox's ConnectX®-3 40GbE NICs with iSCSI over RDMA (iSER) and Micron's 1.4TB P420m PCIe SSD cards. By taking advantage of the iSER protocol, Micron's flash storage solution delivers superior performance, providing virtual machines on a single ESXi 5.1 host with an aggregate bandwidth of 11GB/s or 527,000 IOPS using only two interconnect cards in a 3U box.

"Selecting the right interconnect technologies is vital when selecting Flash-based storage in a virtualized infrastructure. The performance benefits of Flash can easily get trapped behind slow interconnects," said Jared Hulbert, SW Research Manager at Micron. "Mellanox's 40GbE with the iSER protocol gives virtualized applications access to higher bandwidth and excellent 4KB random throughput that only Flash can provide."

"The combined solution of Mellanox's 40GbE NICs with iSER and Micron's P420m PCIe SSD enables higher performance and accelerates storage applications running in virtualized environments," said Yaron Haviv, vice president data center solutions at Mellanox Technologies. "In addition, by consolidating compute and storage traffic over a single-wire infrastructure reduces data center complexity and cost."

To evaluate this solution, a Supermicro 6037R-TXRF that supports 10 PCIe Gen3 x8 slots with two Mellanox 40GbE RDMA NICs and 8 Micron 1.4TB P420m PCI SSDs was used.

Demonstration and presentations at VMworld 2013 (August 25th - August 29th)

Visit Mellanox Technologies at booth #2005 to learn about the benefits of using the joint Mellanox and Micron flash based storage solution. More information on Mellanox's activities during VMworld 2013 may be found at <http://www.mellanox.com/vmworld13>.

Supporting Resources:

- Learn more about [Mellanox's complete 40GbE solution](#)
- Learn more about Micron P420m PCIe SSD <http://www.micron.com/products/solid-state-storage/enterprise-pcie-ssd/p420m-ssd>
- Learn more about Supermicro's [SYS-6037R-TXRF SuperServer®](#)
- Learn more about [Mellanox's activities during VMworld 2013](#)
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About Mellanox

Mellanox Technologies 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, cables 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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