



Los Alamos National Laboratory Selects InfiniBand Technology for Next-Generation 10Gb/sec Cluster

Mellanox Technologies teams with Linux Networx to provide 256-Node Linux Cluster to LANL

SANTA CLARA, CALIFORNIA, and YOKNEAM, ISRAEL - Aug 14, 2003 - Mellanox[®] Technologies Ltd., the leader in InfiniBand[™] silicon, today announced that Los Alamos National Laboratory (LANL) has selected Mellanox InfiniBand interconnect technology for a new 256-node high performance cluster. This cluster, being built by premier clustering solutions provider Linux Networx, will feature Mellanox InfiniScale[™] 96-port 10Gb/sec switches and InfiniHost[™] dual port host channel adapters along with Evolocivity[®] servers. Mellanox InfiniBand 10Gb/sec links are currently delivering record MPI performance of over 850 MB/sec of data throughput combined with superb latencies.

The LANL cluster, named Orange, will become part of Los Alamos' Institutional Computing project and support many scientific research projects. Additional research with the cluster will include parallel scaling for operating systems and global files systems, along with a range of work aimed at getting the most efficient and effective performance out of high-performance clusters. The Mellanox InfiniBand products also support the cluster's capability to switch from 32- to 64-bit or from 64- to 32-bit processing mode.

"The Orange system will expand Los Alamos' exploration of issues surrounding 64-bit open source operating systems and commodity processors in both computer and computational science," said Andy White, who leads Los Alamos' Institutional Computing project. "The InfiniBand interconnect offers the hope of a high-bandwidth, low-latency, commodity interconnect for high-end computing."

"We have proven our ability to deploy large InfiniBand clusters in our Solutions Center facility," said Dick Linville, vice president of corporate development for Linux Networx. "We continue to see excellent performance and scalability with InfiniBand and are excited to be working with Mellanox to deliver the largest InfiniBand cluster to date."

About InfiniBand Architecture

InfiniBand Architecture is the only 10 Gb/sec ultra low latency clustering, communication, storage and embedded interconnect in the market today. InfiniBand, based on an industry standard, provides the most robust data center interconnect solution available with reliability, availability, serviceability and manageability features designed from the ground up. These parameters greatly reduce total cost of ownership for the data center. Low cost InfiniBand silicon that supports 10 Gb/sec RDMA transfers is shipping today providing eight times the bandwidth of Ethernet and three times the bandwidth of proprietary clustering interconnects. With an approved specification for 30 Gb/sec, InfiniBand is at least a generation ahead of competing fabric technologies today and in the foreseeable future.

About Mellanox

Mellanox is the leading supplier of InfiniBand semiconductors, providing complete solutions including switches, host channel adapters, and target channel adapters to the server, communications, data storage, and embedded markets. Mellanox Technologies has delivered more than 100,000 InfiniBand ports over two generations of 10 Gb/sec InfiniBand devices including the InfiniBridge, InfiniScale and InfiniHost devices. Mellanox InfiniBand interconnect solutions today provide over eight times the performance of Ethernet, and over three times the performance of proprietary interconnects. The company has strong backing from corporate investors including Dell, IBM, Intel Capital, Quanta Computers, Sun Microsystems, and Vitesse as well as, strong venture backing from Bessemer Venture Partners, Raza Venture Management, Sequoia Capital, US Venture Partners, and others. The company has major offices located in Santa Clara, CA, Yokneam and Tel Aviv Israel.

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