



Mellanox Technologies Simplifies 10Gb/s High Performance Computing

Turnkey Package offers Solution for 10Gb/s InfiniBand Clustering

SANTA CLARA, CALIFORNIA, and YOKNEAM, ISRAEL - Jun 30, 2004 - Mellanox® Technologies Ltd., the leader in InfiniBandSM solutions, today announced availability of the HPC (High Performance Computing) Gold Collection to facilitate rapid installation and deployment of 10Gb/s high performance computing clusters. HPC Gold includes the key InfiniBand software components needed to build large scale compute clusters in a single, flexible, easy-to-install package. Included is a snapshot of the latest drivers and management tools from the OpenIB.org project and a choice of MPI (Message Passing Interface) implementations optimized for 10Gb/s, 30Gb/s and future InfiniBand networks. The software is integrated, tested, and validated together on mainstream 32 and 64-bit platforms including Intel PCI Express enabled systems, Intel® Extended Memory 64 Technology, Itanium, and AMD Opteron. Together with Mellanox HCA silicon devices, HPC Gold offers a turnkey solution for OEMs, integrators, motherboard manufacturers, and software vendors, enabling affordable industry standard clustering solutions with 10Gb/s and 30Gb/s InfiniBand equipment.

“Building clusters often requires significant tuning and configuration effort with the various mix of protocols, devices, libraries, and new 64-bit architectures coming to market,” said Michael Kagan, Vice President of Architecture for Mellanox Technologies, LTD. “InfiniBand, being an industry standard interconnect, significantly reduces this complexity with native 64-bit support, in-band management capabilities, and the ability to simultaneously support high performance data traffic for MPI, storage, and TCP/IP. We are pleased to offer the HPC Gold Collection which encapsulates these capabilities in a single, easy to install package.”

HPC Gold offers programming and performance features attractive to both commercial and open source application developers. The package eases support and development of cluster computing applications by offering a choice of integrated performance-tuned programming tools based on the Message Passing Interface (MPI) standard, the most commonly used protocol in cluster and supercomputer systems. Included are optimized MPI protocols from two popular open source projects from NCSA (National Center of Supercomputing Applications) and Ohio State University. Both MPI stacks offer superb bandwidth and latency performance that fully utilize the performance benefits of InfiniBand. The NCSA package offers a rich set of development tools including the ability to “compile once, run anywhere”, eliminating the need for developers to re-compile for every different platform. HPC Gold also supports tools from third party vendors.

Furthermore, HPC Gold enables Grid computing by simplifying the process of connecting InfiniBand clusters to the Grid, i.e. building a “Cluster of Clusters” (CoC). NCSA’s MPI is Grid-Enabled with the ability to spawn a single MPI job across geographically distributed clusters. With the ability to load multiple communication devices at runtime, a high performance InfiniBand network can be used for intra-cluster communication while using other protocols for inter-cluster communication, transparently.

“NCSA has years of experience using our MPI protocol with a broad range of scientific applications and production supercomputing systems,” said Rob Pennington, Interim Director of NCSA, “The performance we see with InfiniBand is exciting, and clearly the HPC Gold Collection with NCSA’s MPI, 10Gb/s and 30Gb/s connectivity, PCI Express local I/O, and broad 64-bit platform support will help users get the most performance out of their clusters as possible.”

HPC Gold is available now from Mellanox and can be downloaded free of charge from www.mellanox.com.

About InfiniBand

InfiniBand 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 25 times the bandwidth of Ethernet and three to eight times the bandwidth of proprietary clustering interconnects. With 30 Gb/sec products currently shipping, InfiniBand is at least a generation ahead of competing fabric technologies today and in the foreseeable future.

About NCSA

NCSA (National Center for Supercomputing Applications) is a national high-performance computing center that develops and deploys cutting-edge computing, networking and information technologies. Located at the University of Illinois at Urbana-Champaign, NCSA is funded by the National Science Foundation. Additional support comes from the state of Illinois, the University of Illinois, private sector partners and other federal agencies. For more information, see <http://www.ncsa.uiuc.edu/>.

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 200,000 InfiniBand ports over three generations of 10 Gb/sec InfiniBand devices including the InfiniBridge, InfiniHost, and InfiniScale III devices. Mellanox InfiniBand interconnect solutions today provide over 25 times the performance of Ethernet, and three to eight 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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