



MPI Software Technology, Inc. Provides MPI/ PRO for Mellanox's 10 Gbit/sec InfiniBand HCAs

Message Passing Interface (MPI) on Industry Standard InfiniBandSM Architecture Delivers Record Bandwidth for HPC Applications

STARKVILLE, MISS. SANTA CLARA, CALIFORNIA and YOKNEAM, ISRAEL, November 13, 2002 - MPI Software Technology, Inc, (MSTI) the leading provider of high-performance middleware products and related services, today announced that at SC2002 in Baltimore Maryland, it has ported MPI/Pro[®] supporting Mellanox InfiniHost[™] Host Channel Adapters (HCAs). The MPI/Pro package will be demonstrated at the SC2002 conference November 18-21, 2002 in Baltimore, Maryland. The availability of MPI/Pro for InfiniBand represents an important milestone for this industry standard architecture, as HPC applications are now enabled for 10Gb/sec InfiniBand performance.

The InfiniBand Architecture provides a high performance low latency communication that HPC servers require, while delivering the economics that only an industry standard can provide. This is the key attribute that the highly proprietary HPC clustering market has needed to expand its volume, and Mellanox's InfiniHost HCA offers record setting performance that delivers up to three times the bandwidth of proprietary interconnects and up to 8 times the bandwidth of gigabit Ethernet.

MPI/Pro provides high performance MPI-1.2 parallel middleware supporting InfiniBand. MPI/Pro for the InfiniHost HCA works exceptionally well in both low-latency and low-overhead configurations, offering maximal bandwidth for both settings of the library. MPI/Pro enables seamless porting of applications from other parallel cluster environments and parallel computers. MPI/Pro for InfiniBand will be followed-up by ChaMPIon/Pro in 1Q2003, offering MPI-2 features for this important interconnect.

"MPI/Pro + 10Gb/sec InfiniBand represents revolutionary potential for scalable HPC clustered computing at and above the current market expectations for scale and absolute performance," said Dr. Anthony Skjellum, CTO of MSTI. "As such, the InfiniBand standard and commercial middleware together promise to widen the availability of supercomputing-performance networks to more, if not most, of the deployed clusters of the next several years."

Demonstrations in MSTI's booth (#1903), at SC2002 will feature MPI/Pro running a number of Mellanox's products. These include the InfiniHost HCA and InfiniScale switching devices, as well as Mellanox reference design switches and Nitro II InfiniBand server blades. The Nitro II server blade chassis is a complete HPC cluster in a single 4U enclosure. It contains up to 12 InfiniBand server blades and dual redundant switches all connected with 10Gb/sec communication. This design is a vision of the future of HPC clustering delivering breakthrough performance gains combined with the ease and density that server blade computing provides.

"Mellanox is dedicated to providing superior InfiniBand clustering solutions for many markets, including both the enterprise database and HPC markets," said Dana Krelle, vice president of marketing for Mellanox Technologies, Ltd. "We see MSTI MPI/Pro support for our InfiniHost HCA as a key enabler for providing commercially available InfiniBand solutions delivering record performance."

About InfiniBand

The InfiniBand Architecture is the only 10Gb/sec ultra low latency clustering, communication and storage interconnect in the market today. Based on an industry standard with reliability, availability, serviceability and manageability features designed in from the ground up, InfiniBand provides the most robust data center interconnect solution available. These attributes greatly improve

TCO for the data center. Low cost InfiniBand silicon is shipping today that supports 10Gb/sec RDMA transfers and with its approved specification for 30Gb/sec, InfiniBand is at least a generation ahead of competing fabric technologies today and for the foreseeable future.

About MPI/Pro

MPI/Pro provides professional message passing for high-performance, parallel computing. It improves the performance of clusters running applications such as CFD simulation, weather modeling, financial modeling, seismic exploration, and protein folding. It out performs does other parallel programming tools with its high performance low overhead and thread-safe technology.

About MSTI

MPI Software Technology, Inc. (MSTI) is the leading provider of high-performance middleware products and related services. Headquartered in Starkville, Mississippi, with offices in New England, Europe, and India, MSTI specializes in commercial grade solutions for enterprise parallel computing.

Our flagship product, MPI/Pro®, supports the MPI (Message Passing Interface) Standard for Windows®, Linux®, and Mercury RACE®. Cluster Controller® is an MPI job scheduler for Windows clusters with Linux release in mid-2002. Our VSI/Pro® Core math library supports signal and image processing on VxWorks®, LynxOS®, Mac® OS, and Linux, and is Altivec® optimized for PPC/G4.

MSTI also offers professional consulting and training services for the performance of Beowulf systems. These services include comprehensive training on middleware standards, how to use our scalable products in your enterprise, and how to apply high performance computing refactoring to existing applications.

About Mellanox

Mellanox is the leading supplier of InfiniBand semiconductors, providing switches, Host Channel Adapters, and Target Channel Adapters to the server, communications and data storage markets. In January 2001, Mellanox Technologies delivered the InfiniBridge 10Gb/sec InfiniBand device to market, and is now shipping second-generation InfiniScale and InfiniHost silicon. The com-

pany has raised more than \$89 million to date and has strong corporate and venture backing from Bessemer Venture Partners, Dell Computer, Intel Capital, Raza Venture Management, Sequoia Capital, Sun Microsystems, US Venture Partners, Vitesse and others. Mellanox has been recognized with awards in 2001 and 2002 from Computerworld, Network Computing, Red Herring, and Upside magazines as a key emerging technology company. The company's business operations, sales, marketing and customer support are headquartered in Santa Clara, CA; with the design, engineering, software, system validation, and quality and reliability operations based in Israel.

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