



Mellanox Doubles InfiniBand Performance with 20Gb/s and 60Gb/s Technology

20Gb/s Capabilities Extends InfiniBand Leadership for Business and Technical Computing

SANTA CLARA, California and YOKNEAM, ISRAEL, – November 2, 2004 – Mellanox® Technologies Ltd, the leader in business and technical computing interconnects will demonstrate new double data rate (DDR) 20Gb/s and 60Gb/s InfiniBand technology at the Supercomputing 2004 conference in Pittsburgh, booth# 835, next week. InfiniBand DDR technology provides twice the bandwidth delivered by current InfiniBand products and achieves up to eight times the performance of competing interconnects. The technology demonstration is welcome news for data centers and supercomputer architects looking to deploy bandwidth-hungry applications on 64-bit platforms. The demonstration also highlights the significant return on investment of deploying InfiniBand, as the new 20Gb/s and 60Gb/s solutions are backwards compatible with existing software and hardware.

“InfiniBand has clearly enabled a Moore’s law effect for interconnects,” says Michael Kagan, vice president of architecture at Mellanox. “While competing technologies are struggling to introduce 10Gb/s technologies, InfiniBand is doubling the speed of its existing architecture without requiring new software. This positions InfiniBand as the highest performance and best technology choice for 64-bit and dual core platforms in business and technical computing.”

The technology demonstration consists of a complete 8-node Dual Processor Intel Xeon EM64T cluster with InfiniBand PCI Express Adapters and an InfiniBand Switch with both 20Gb/s and 60Gb/s ports. The adapters use the Mellanox InfiniHost III Ex PCI Express device, and the switch is based on the 24-Port InfiniScale III device. The demonstration runs a Computational Fluid

Dynamics application from Fluent™ Inc. and the latest Linux IBGold software package from Mellanox.

20Gb/s technology is only one in a series of speed upgrades in the InfiniBand roadmap. In September, the InfiniBand Trade Association (IBTA) released a final version of the Annex, which specifies DDR and QDR (Quad Data Rate) modes of operation. These modes define increased signaling rates over existing 1X, 4X and 12X InfiniBand links, effectively doubling or quadrupling bandwidth using the same infrastructure. For example, DDR operation over 4X and 12X InfiniBand links provides 20Gb/s and 60Gb/s respectively, as will be demonstrated in the Mellanox booth at SC2004.

Mellanox will begin sampling Switch and HCA silicon in Q4, 2004. DDR Switches and PCI Express HCA Adapter cards are scheduled for availability in the first half of 2005.

About Mellanox

Mellanox field-proven offering of interconnect solutions for communications, storage and compute clustering are changing the shape of both business and technical computing. As the leader of industry-standard, InfiniBand-based silicon and system solutions, Mellanox is the driving force behind the most cost-effective, highest performance interconnect solutions available.

For more information visit Mellanox website at www.mellanox.com

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