Demonstration Confirms InfiniBand Fabric as the New Standard for High-Performance Embedded Computing

Bus&Board 2004 Conference -- Mellanox, SBS Technologies (NASDAQ: SBSE) and SKY Computers today debuted and demonstrated interconnected 10Gb/sec InfiniBand(SM) Architecture products that improve reliability, availability, and scalability for the embedded market. The products each contribute innovative technologies that are fueling the growth of InfiniBand technology in high-performance embedded computing applications. The demonstration connects the SBS 10 Gb/sec dual-port InfiniBand PMC card and an SBS 24-Port switch to SKY's SMARTpac 600 and 1200 servers. Also shown is the InfiniBand 12X or 30 Gb/sec switching capability that is included in Mellanox's new third-generation InfiniBand silicon, the InfiniScale III.

These new products build on a portfolio of InfiniBand-based products ideally suited to solve a broad range of signal processing and high-performance embedded computing needs. The fundamental building blocks for many solutions -- data acquisition, switching, and computing -- are available today and are tightly integrated through a high-performance, resilient, and scalable InfiniBand fabric.

About the Products
The SBS IB4X-PMC-2 HCA (Host Channel Adapter), featuring dual 10 Gb/s 4x InfiniBand ports, provides the advantages of InfiniBand technology in a PMC form factor. Based on Mellanox InfiniHost silicon, this board is capable of full-wire-speed transmissions over InfiniBand links. It also fully supports RDMA transfers, which reduce CPU overhead and free up host processors for application use.

The SBS EIS-4024-1U is a high-performance InfiniBand 24-port 4x copper cable switch in a 1U 19-inch rack-mount chassis. Based on a single Mellanox InfiniScale III integrated switch semiconductor, the switch has an aggregate bandwidth of 480 Gb/s and less than 200 nanosecond latency.

SKY's InfiniBand-based SMARTpac 600 and the SMARTpac 1200 are designed as complementary systems. The SMARTpac 600 provides I/O functionality and processing for an application's front-end data acquisition needs, while the SMARTpac 1200 provides the back-end computational horsepower for computationally intensive signal processing and image analysis. SKY's new dual-processor SMP Compute Blade, also debuted at Bus&Board 2004, doubles the compute density of the SMARTpac Systems family. The SMARTpac 1200 chassis can now be configured with up to twenty-four 1.0 GHz PPC 4774 processors -- 192 GFLOPS -- in a 3U chassis. SKY's advanced health-monitoring technologies, built into all
SMARTpac systems, ensure the highest application availability within mission-critical environments. These new offerings extend the capabilities of SKY’s family of Linux-based systems, which are ideal for data-intensive signal and image processing applications in markets such as military/defense, industrial inspection, healthcare, homeland security, and software-defined radio.

The third generation Mellanox InfiniScale III single-switch device offers 480 Gb/sec total bandwidth from 24 integrated 10Gb/sec full duplex InfiniBand ports capable of non-blocking full-wire-speed operation. The device is the first to offer 12X InfiniBand link aggregation supporting 8 Ports at 30Gb/sec. The Mellanox InfiniHost device is a dual-port 10Gb/sec HCA that features hardware transport at ultra-low latencies. The level of integration in these two devices advances the state of the art in fabric interconnects and delivers the highest performing commercially available fabric.

About SBS Technologies
SBS Technologies, Inc. (NASDAQ: SBSE), founded in 1986, designs and builds a wide range of standard and customized embedded computer products. Our products include processor boards, input/output modules, networking devices, and complete computer systems. Our products are used in many industries, including telecommunications, medical electronics, industrial automation and defense. Headquartered in Albuquerque, New Mexico, SBS maintains eight primary operating locations, has regional sales offices throughout the United States and has international sales offices in five countries. More information on SBS is available at www.sbs.com.

About SKY Computers
SKY Computers, Inc., a wholly owned subsidiary of Analogic Corporation (NASDAQ: ALOG), is the leading supplier of standards-based, embedded high-performance computer systems. SKY’s broad range of commercial-off-the-shelf products meets the embedded computing requirements for high-performance embedded computing applications. Standards and open-source software are combined with advanced technologies to provide solutions for demanding government electronics, industrial inspection, medical imaging, and security applications. More information on SKY Computers is available at www.skycomputers.com.

About Mellanox Technologies
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 three generations of 10 Gb/sec InfiniBand devices including the InfiniBridge, InfiniScale, InfiniHost and InfiniScale III 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. For more information visit www.mellanox.com.

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