



Mellanox Technologies Supports the InfiniBand Architecture in Oracle[®] Database 10g

InfiniBand Showcased by Dell[®], Intel[®], Network Appliance[®], and Sun[®] Microsystems at OracleWorld

SANTA CLARA, CALIFORNIA, and YOKNEAM, ISRAEL - Sep 09, 2003 - Mellanox[®] Technologies Ltd., the leader in InfiniBand[™] semiconductors, today announced that the newly announced Oracle Database 10g has been tested, approved and now publicly demonstrated over Mellanox InfiniHost[™] devices. A yearlong collaboration effort among Oracle, Topspin[®] Communications and Mellanox has resulted in a fully native implementation of InfiniBand support for Oracle database 10g. At the OracleWorld conference this week Dell, Intel, Network Appliance, Sun Microsystems, Topspin Communications, Voltaire, InfiniCon Systems and others are demonstrating Oracle databases running over InfiniBand clusters built with industry standard servers.

Results have shown that the InfiniBand interconnect reduces latency significantly, provides greater bandwidth, and lowers CPU utilization for greater performance improvements. This performance can now be applied to Oracle Database 10g. Together, Oracle Database 10g and InfiniBand enable IT managers to create robust, scalable, and highly available databases running on low cost commodity servers using the Linux operating system.

In the Dell booth, the demonstration shows how improved data center resource allocation can be achieved with InfiniBand.

Sun has clustered together Sun Fire[™] V65x and V60x servers, along with Sun StorEdge[™] 3510 Fibre Channel storage arrays for a complete 10Gbit/sec InfiniBand Oracle database 10g and Oracle Cluster File System (OCFS) demonstration over Linux. Another InfiniBand cluster features

Sun Fire V480 systems over Solaris. The Linux version of this demo was featured during Scott McNealy's OracleWorld keynote address.

Mr. McNealy's keynote can be found at: <http://www.oracle.com/oracleworld/online/sanfrancisco/2003/index.html?keynotes.html>.

Network Appliance is showcasing Oracle databases connected to native attached InfiniBand storage with their FAS 940 storage server. The Network Appliance demonstration features 10Gb/sec storage using InfiniBand attached Direct Access File System (DAFS) file servers connected to Oracle Database 10g.

The Intel booth features Intel Itanium® 2 processor based systems clustered with InfiniBand.

"Oracle and Mellanox have worked closely together to introduce Infiniband support in Oracle Database 10g to help ensure that the InfiniBand benefits of high bandwidth and low latency translate into high performance for Oracle customers" said Juan Loaiza, Vice President of Systems Technology at Oracle.

Mellanox has provided InfiniBand semiconductors, software drivers and contributed to the RDMA InfiniBand uDAPL interface development within the DAT (Direct Access Transport) Collaborative. uDAPL provides a lightweight interface enabling the Oracle Database 10g to call and utilize the highly scalable and flexible 10Gb/sec low latency interconnect features of InfiniBand. To take advantage of these capabilities, Oracle has updated the Cache Fusion Architecture for InfiniBand and implemented rigorous validation and testing with Topspin Communications to enable the most robust implementation.

"Our uDAPL implementation must work flawlessly with both the Mellanox driver and Oracle's database, to deliver maximum performance and stability to 10g customers," said Tracy Edmonds, vice president of software engineering at Topspin Communications. "Many months of joint development, testing and hard work have ensured that we have enabled us to meet this goal."

"Mellanox is dedicated to providing superior InfiniBand support to the industry," said Eyal Waldman, CEO for Mellanox. "We have worked closely with both Oracle and Topspin to provide a

highly tuned and efficient native implementation of InfiniBand support for Oracle's new database10g."

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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