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Mellanox Introduces HPC-X Scalable Software Toolkit for High-Performance Computing Platforms and Applications

Comprehensive HPC software suite demonstrates more than 50 percent increased performance with leading applications

LEIPZIG, Germany--(BUSINESS WIRE)-- Mellanox® Technologies, Ltd. (NASDAQ: MLNX), a leading supplier of end-to-end interconnect solutions for data center servers and storage systems, today announced the availability of [HPC-X™ Scalable Software Toolkit](#), a comprehensive software suite for high-performance computing environments, which provides enhancements to significantly increase the scalability and performance of message communications in the network.

HPC-X provides complete communication libraries to support MPI, SHMEM and PGAS programming languages, as well as performance accelerators that take advantage of Mellanox's scalable interconnect solutions. HPC-X provides support for other interconnect solutions as well, based on the Ethernet and InfiniBand standards.

HPC-X Scalable Software Toolkit components and accelerators include:

- Mellanox ScalableMPI - Message Passing Interface based on Open MPI
- Mellanox ScalableSHMEM - One-sided communications library
- Mellanox ScalableUPC - UPC parallel programming language library based on Berkeley UPC
- Mellanox MXM - Messaging Accelerator optimized for underlying hardware
- Mellanox FCA - Fabric Collectives Accelerator supporting MPI-3
- Mellanox IPM - Integrated Performance Monitoring and additional benchmarking tools to help users fine tune their HPC environment

"HPC-X enables you to rapidly deploy and deliver maximum application performance without the complexity and costs of licensed third-party tools and libraries," said Scot Schultz, director of HPC and technical computing at Mellanox. "Users can now solve their most complex problems in reduced time and scale their solutions more efficiently."

The benefits of HPC-X can easily be seen even at lower node counts compared to running with a standard version of Open MPI. OpenFOAM, a popular open-source computational fluid dynamics code used by both commercial and academic organizations, demonstrated a 58 percent productivity boost with HPC-X at just 16 nodes. LS-DYNA, a popular commercial general-purpose finite element program used by industry leaders in automotive and aerospace to analyze complex vehicle designs, demonstrated improved scalability and 76 percent improved productivity with HPC-X at only 32 nodes. The effects that HPC-X will demonstrate can be even greater with larger scale system deployments.

Visit Mellanox Technologies at ISC'14 (June 23-25, 2014)

Visit Mellanox Technologies at ISC'14 (booth #531) to see demonstrations and the full suite of Mellanox's end-to-end high-performance InfiniBand and Ethernet solutions.

For more information on Mellanox's event and speaking activities at ISC'14, please visit <http://www.mellanox.com/isc14>.

Supporting Resources:

- Learn more about [HPC-X](#)
- Learn more about Mellanox InfiniBand [Switches](#), [Adapter Cards](#), and [Cables](#)
- Learn more about Mellanox [Switch Management](#) and [Storage Fabric Software](#)
- Follow Mellanox on [Twitter](#), [Facebook](#), [Google+](#), [LinkedIn](#), and [YouTube](#)
- [Join the Mellanox Community](#)

About Mellanox

Mellanox Technologies is a leading supplier of end-to-end InfiniBand and Ethernet interconnect solutions and services for servers and storage. Mellanox interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance capability. Mellanox offers a choice of fast interconnect products: adapters, switches, software and silicon that accelerate application runtime and maximize business results for a wide range of markets including high-performance computing, enterprise data centers, Web 2.0, cloud, storage and financial services. More information is available at www.mellanox.com.

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Safe Harbor Statement under the Private Securities Litigation Reform Act of 1995:

Certain matters discussed in this press release are forward-looking statements, including statements related to the need for high-performance data centers, Web 2.0, cloud and storage infrastructures to scale their 40Gb/s and 56Gb/s interconnect to 100Gb/s to address the exponential growth in data and the acceleration of large scale data center deployments.

These forward-looking statements are based on our current expectations, estimates and projections about our industry and business, management's beliefs and certain assumptions made by us, all of which are subject to change.

Forward-looking statements can often be identified by words such as "projects," "anticipates," "expects," "intends," "plans," "predicts," "believes," "seeks," "estimates," "may," "will," "should," "would," "could," "potential," "continue," "ongoing," similar expressions and variations or negatives of these words. These forward-looking statements are not guarantees of future results and are subject to risks, uncertainties and assumptions that could cause our actual results to differ materially and adversely from those expressed in any forward-looking statement.

The risks and uncertainties that could cause our results to differ materially from those expressed or implied by such forward-looking statements include the continued expansion of our product line, customer base and the total available market of our products, the continued growth in demand for our products, the continued, increased demand for industry standards-based technology, our ability to react to trends and challenges in our business and the markets in which we operate, our ability to anticipate market needs or develop new or enhanced products to meet those needs, the adoption rate of our products, our ability to establish and maintain successful relationships with our OEM partners, our ability to effectively compete in our industry, fluctuations in demand, sales cycles and prices for our products and services, our success converting design wins to revenue-generating product shipments, the continued launch and volume ramp of large customer sales opportunities, and our ability to protect our intellectual property rights. Furthermore, the majority of our quarterly revenues are derived from customer orders received and fulfilled in the same quarterly period. We have limited visibility into actual end-user demand as such demand impacts us and our OEM customer inventory balances in any given quarter. Consequently, this introduces risk and uncertainty into our revenue and production forecasts and business planning and could negatively impact our financial results. In addition, current uncertainty in the global economic environment poses a risk to the overall economy as businesses may defer purchases in response to tighter credit conditions, changing overall demand for our products, and negative financial news. Consequently, our results could differ materially from our prior results due to these general economic and market conditions, political events and other risks and uncertainties described more fully in our documents filed with or furnished to the Securities and Exchange Commission.

More information about the risks, uncertainties and assumptions that may impact our business is set forth in our annual report on Form 10-K filed with the SEC on February 28, 2014. All forward-looking statements in this press release are based on information available to us as of the date hereof, and we assume no obligation to update these forward-looking statements.

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