

CSC, the Finnish IT Center for Science, and the Finnish Meteorological Institute Select 200 Gigabit HDR InfiniBand to Accelerate Multi-Phase Supercomputer Program

The Multi-phase supercomputer system program will enhance High Performance Computing (HPC) and Artificial Intelligence (AI) research, providing 5x higher performance capacity for Finnish scientists and researchers

Mellanox Technologies, Ltd. (NASDAQ: MLNX), a leading supplier of high-performance, end-to-end smart interconnect solutions for data center servers and storage systems, today announced that its 200 Gigabit HDR InfiniBand solutions were selected to accelerate a multi-phase supercomputer system by CSC – the Finnish IT Center for Science. The new supercomputers, set to be deployed in 2019 and 2020, will serve the Finnish researchers in universities and research institutes, enhancing climate, renewable energy, astrophysics, nanomaterials and bioscience, among a wide range of exploration activities. The Finnish Meteorological Institute (FMI) will have their own separate partition for diverse simulation tasks ranging from ocean fluxes to atmospheric modeling and space physics.

CSC selected the HDR InfiniBand interconnect solution for its fast data throughput, extremely low latency, smart In-Network Computing acceleration engines, and enhanced Dragonfly network topology. These advantages will provide CSC and FMI users with world-leading HPC and AI application performance, scalability and efficiency.

"The multi-phase, multi-year supercomputing program will enable our researchers and scientists to leverage the most efficient HPC and AI platforms to enhance their discoveries and competitiveness for years to come," said Pekka Lehtovuori, Director of services for research at CSC. "By utilizing HDR InfiniBand In-Network Computing acceleration engines, and the innovative Dragonfly network topology design, we will provide our users with a world-leading performance and scalability system and optimize our total cost of ownership."

200 Gigabit HDR InfiniBand In-Network Computing acceleration engines provide leading performance, scalability, efficiency and resiliency for HPC and AI applications. For example, Mellanox Scalable Hierarchical Aggregation and Reduction Protocol (SHARP)[™] technology enables the execution of data algorithms on the data as it traverses within the network, and Mellanox SHIELD[™] technology enables self-healing interconnect capabilities. These advantages, together with its high data throughput and extremely low latency, make InfiniBand the preferred interconnect choice for next-generation supercomputing platforms.

"We are excited to collaborate with Atos, the system provider, and CSC to enhance research and explorations in Finland," said Gilad Shainer, vice president of marketing at Mellanox Technologies. "HDR InfiniBand will provide CSC users with the highest productivity and overall return on investment."

"As the leading supercomputer manufacturer in Europe, we are delighted to work with Mellanox and CSC to supply our latest BullSequana XH2000 supercomputer, giving Finnish researchers an enhanced computing capacity for new innovation breakthroughs," said Agnès Boudot, Group vice president, Head of HPC at Atos.

Supporting Resources:

- Learn more about [Mellanox 200G HDR InfiniBand Adapters](#) and [Switches](#)

About Mellanox

Mellanox Technologies (NASDAQ: [MLNX](#)) is a leading supplier of end-to-end Ethernet and InfiniBand smart 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.

About CSC – IT Center for Science

CSC – IT Center for Science is a Finnish center of expertise in information technology owned by the Finnish state and higher education institutions. CSC provides internationally high-quality ICT expert services for higher education institutions,

research institutes, culture, public administration and enterprises to help them thrive and benefit society at large. More information is available at: <https://www.csc.fi>.

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