

Voltaire Powers World's Most Powerful Supercomputer for NNSA's Los Alamos

Voltaire Switches Drive Revolutionary Supercomputer Past the Petaflop Barrier, Taking No. 1 Position on New Top500 List

ISC, DRESDEN, Germany – June 18, 2008 – Voltaire Ltd. (NASDAQ: VOLT) today announced that the company's InfiniBand-based switches are powering the world's largest supercomputer for the National Nuclear Security Administration's (NNSA) Los Alamos National Laboratory. The revolutionary new supercomputer, nicknamed Roadrunner, achieved sustained performance of 1,026 trillion calculations per second breaking the petaflop barrier and surpassing the performance of every other supercomputer operating today. Roadrunner has also claimed the number-one position on the new Top500 (www.top500.org) list released today. This deal reflected multimillion dollar revenue for Voltaire across late 2007 and Q1 2008.

Roadrunner is a collaborative effort between Voltaire, NNSA, IBM and Los Alamos National Laboratory that will primarily be used to ensure the safety and reliability of the nation's nuclear weapons stockpile. It will also be used for research into astrophysics, energy, disease pathways and global climate.

“Architecting and deploying a new scale of supercomputer is a tremendous accomplishment. One of the pleasant surprises was the stability of the system as it scaled up in size,” said Andy White, Roadrunner Project Director at Los Alamos National Laboratory. “The incredible amount of compute power harnessed by this machine will further the country's national security initiatives and aid in new scientific discoveries.”

The supercomputer is built entirely from industry-standard hardware and based on the Linux operating system. Based on a hybrid, triblade design, each node consists of two IBM BladeCenter QS22 blades that contain four Cell processors and an LS21 blade with two AMD Opteron chips. The supercomputer uses a total of 26 Voltaire Grid Director™ 2012 288-port 20 Gbps InfiniBand switches for the high performance interconnect

Voltaire switches deliver 20 Gbps bandwidths and latencies of less than one microsecond to accelerate application performance by as much as 300% as compared to using Ethernet. Moreover, the switches' power-efficient design offers lower power and cooling requirements as compared to 1 and 10 Gigabit Ethernet offerings. Voltaire switches employ a unique design that supports both fibre and copper cabling and the longest distances for InfiniBand.

“Voltaire is honored to partner with NNSA, Los Alamos and IBM to break new ground with the development of the world's first petaflop supercomputer,” said Ronnie Kenneth, CEO and chairman, Voltaire. “By selecting Voltaire InfiniBand-based switches as the

interconnect, Los Alamos will be able to capitalize on the supercomputer's intensity to run complex calculations and simulations faster and more efficiently.”

About Voltaire

Voltaire Ltd. (NASDAQ: VOLT) designs and develops server and storage switching and software solutions that enable high-performance grid computing within the data center. Voltaire refers to its server and storage switching and software solutions as the Voltaire Grid Backbone™. Voltaire's products leverage InfiniBand technology and include director-class switches, multi-service switches, fixed-port configuration switches, Ethernet and Fibre Channel routers and standards-based driver and management software. Voltaire's solutions have been sold to a wide range of end customers including governmental, research and educational organizations, as well as enterprises in the manufacturing, oil and gas, entertainment, life sciences and financial services industries.

Founded in 1997, Voltaire Ltd. is headquartered in Herzeliya, Israel, and has its U.S. headquarters in Billerica, Massachusetts. More information about Voltaire is available at www.voltaire.com or by calling 1-800-865-8247.

Forward Looking Statements

Information provided in this press release may contain statements relating to current expectations, estimates, forecasts and projections about future events that are “forward-looking statements” as defined in the Private Securities Litigation Reform Act of 1995. These forward-looking statements generally relate to the Voltaire's plans, objectives and expectations for future operations and are based upon management's current estimates and projections of future results or trends. Actual future results may differ materially from those projected as a result of certain risks and uncertainties. These factors include, but are not limited to, those discussed under the heading “Risk Factors” in Voltaire's annual report on Form 20-F filed with the Securities and Exchange Commission on May 5, 2008. These forward-looking statements are made only as of the date hereof, and we undertake no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

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