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FOR IMMEDIATE RELEASE:

Voltaire Switches Included in New PNNL Supercomputer Dedicated to Accelerating Environmental Science Research

BILLERICA, Mass. and HERZELIYA, Israel – February 25, 2008 – Voltaire Ltd. (NASDAQ: VOLT), a leading provider of grid backbone solutions for data centers, today announced that Pacific Northwest National Laboratory (PNNL) will use Voltaire's Grid Backbone™ switching solutions as part of a new high-performance computing (HPC) system from HP, designed to accelerate research discovery in environmental molecular sciences. This represents a multimillion dollar deal for Voltaire for planned delivery in 2008.

"This supercomputer will aid in furthering EMSL's mission to use scientific computing to develop a molecular-level understanding of the physical, chemical and biological processes that underlie the most critical environmental issues facing the DOE," said Kevin Regimbal, associate director for Enabling Technologies at the Environmental Molecular Sciences Laboratory.

The supercomputer will be located in the Environmental Molecular Sciences Laboratory (EMSL), a Department of Energy (DOE) national scientific user facility located at the PNNL in Richland, Wash. It will be used for research projects related to bioremediation, energy production and environmental clean-up. The system's scalable design uses Voltaire InfiniBand-based switches as the high-performance interconnect to allow scientists to run more complex problems and obtain faster and more accurate results.

The supercomputer is composed of HP ProLiant servers interconnected with sixteen Voltaire Grid Director™ 2012 InfiniBand switches, which deliver 20 Gigabits/second or Double Data Rate (DDR) bandwidth and very low latency. Consisting of 18,480 2.2 gigahertz AMD processor cores, the supercomputer will have an expected total peak performance of about 163 teraflops, making it one of the world's most powerful supercomputers.

"We are delighted to work with PNNL to help them improve and expedite their research in environmental sciences," said Peter Waxman, vice president of sales, Americas at Voltaire. "Voltaire's 20 Gigabits/second InfiniBand switches bring heightened levels of bandwidth and performance to PNNL's system enabling them to run more complex calculations faster and with greater efficiency."

"HP has a strong and successful relationship with Voltaire to deliver Voltaire's InfiniBand-based switches and software within HP's Unified Cluster Portfolio," said Ed Turkel, manager of the product and technology marketing group for the High-Performance Computing (HPC) Division

at HP. “Voltaire’s solutions have enabled HP to deploy scalable, reliable, InfiniBand clusters across a broad performance range, including a number of very large systems such as this deployment at PNNL.”

The system is expected to be delivered and tested in two phases starting in Q1 2008 and is expected to be fully operational in September 2008.

About Voltaire
Voltaire (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 final prospectus for its IPO filed with the Securities and Exchange Commission on July 27, 2007. 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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