



Media Contact:

Christy Lynch
Voltaire
Tel. +1 978 439 5407
christyl@voltaire.com

Investor Relations Contact:

Ehud Helft / Fiona Darmon
CCGK Investor Relations
Tel. +1 617 418 3096 / +1 646-797-2868
info@gkir.com

FOR IMMEDIATE RELEASE:

U.S. Department of Energy Selects Voltaire Grid Backbone™ Solutions for 438 TeraFLOP High Performance Computing Clusters

Voltaire 20 Gigabits/second InfiniBand Switches to Power New Tri-Laboratory Linux Capacity Cluster (TLCC07) for NNSA Defense Initiatives

BILLERICA, Mass. and HERZELIYA, Israel – October 2, 2007 – Voltaire Ltd. (NASDAQ: VOLT), a leading provider of grid backbone solutions, today announced that the U.S. Department of Energy has selected Voltaire Grid Backbone™ solutions as part of Appro Xtreme-X™ supercomputing clusters for the TLCC07 project to be delivered to National Nuclear Security Administration (NNSA) weapons laboratories: Lawrence Livermore National Laboratory, Los Alamos National Laboratory and Sandia National Laboratories.

TLCC07 will consist of eight Linux capacity clusters with up to 438 teraFLOPs from 21 Scalable Units (SU) and will be used principally to provide needed computational support to NNSA's nuclear weapons programs, notably Stockpile Stewardship – the program to ensure the safety, security and reliability of the nation's nuclear deterrent without nuclear testing. The clusters will be deployed to the Tri-Labs community starting in late 2007 through early 2008. The Tri-Labs selected the scalable unit design with a high-performance, low latency 20 gigabits/second InfiniBand fabric from Voltaire because of the price/performance benefits coupled with the ability to simplify deployment by using off-the-shelf hardware.

“The TLCC07 clusters built from scalable units based on Voltaire InfiniBand technology will provide needed capacity computing resources for the Stockpile Stewardship program at all three Lab sites. This approach will lower by 30-50% our TCO for fielding a large number of Linux clusters for the Tri-Laboratory community,” said Mark Seager, Advanced Computing Technology lead for LLNL. “A suitable grid backbone solution is critical to building the eight capacity clusters of various sizes for all three Labs because of the increased bandwidth and messaging rates it provides.”

The TLCC07 project represents a total of 3,024 nodes, 12,096 processors/48,348 cores with up to 96.8TB of memory. The Appro Scalable Xtreme-X supercomputing clusters will be based on Quad-Core AMD Opteron™ processors connected with a two-stage InfiniBand 20 gigabits/second 4X Double Data Rate (DDR) fabric featuring Voltaire Grid Director™ ISR 2012 core switches and the latest Mellanox ConnectX dual port DDR InfiniBand HCAs.

Voltaire's Grid Director ISR 2012 switch which began shipping earlier this year offers up to 288 ports of full 20 gigabits/second InfiniBand connectivity and microsecond latencies to enable

high-performance applications to run on distributed server, network and storage resources. The switch provides reliable packet delivery with ultra low error rates that ensure jobs run to completion and eliminates performance-robbing packet drops, retransmissions and fabric downtime. The superior signal quality enables the use of longer cables and the power-efficient design offers lower power and cooling requirements as compared to 10 Gigabit Ethernet offerings.

“We are extremely pleased to work with Appro to deliver this world-class system to the Tri-Labs to further support our nation’s security initiatives,” said Peter Waxman, vice president sales, North America at Voltaire. “Voltaire’s DDR InfiniBand solutions give the Tri-Labs the best price/performance and the ability to run complex calculations and scientific simulations faster and more efficiently.”

“Appro is happy to work again with Voltaire to provide InfiniBand 20 gigabits/second 4X DDR fabric switches and the latest Mellanox ConnectX dual port DDR InfiniBand HCAs to power Appro Xtreme-X Supercomputing Clusters, said Daniel Kim, CEO of Appro. “By combining best of breed hardware and software technologies, Appro’s supercomputing clusters meet the demands of petascale computing and beyond while providing the reliability required by the NNSA/ASC Program Office with price/performance leadership.”

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.

###

All product and company names mentioned herein may be the trademarks of their respective owners.