



**FOR IMMEDIATE RELEASE**

**Mississippi State University Selects Voltaire for InfiniBand Connectivity**

***University to Deploy Voltaire's InfiniBand Solutions To Support 192-node, Diskless IBM Server Cluster***

**BEDFORD, Mass – October 14, 2003** – Voltaire, a leading provider of high performance InfiniBand solutions, today announced that the ERC at Mississippi State University has selected Voltaire's advanced InfiniBand connectivity solutions to support a 192-node, diskless IBM server cluster, the largest diskless InfiniBand server cluster built to date. Voltaire's InfiniBand solutions, featuring advanced I/O and management capabilities, enable advanced computing facilities like the ERC to significantly improve the performance and efficiency of server clusters for high performance computing (HPC) applications.

“The ERC has been pioneering advanced clustered computing networks for sixteen years and is widely recognized for our important research and development initiatives and forward-looking adoption of next-generation technologies,” said Trey Breckenridge, HPC Resources and Operations Administrator, Mississippi State University ERC. “With the power, performance and scalability of Voltaire's InfiniBand switches and the robust functionality of the VoltaireVision management software, we are well enabled to achieve significant throughput and performance gains for our IBM server cluster and extend our research leadership and expertise to a new tier.”

“We have been working closely with Voltaire to deliver superior InfiniBand clustering solutions to HPC and data center customers,” said Dave Turek, vice president of Deep Computing, IBM. “As an early leader in InfiniBand technology, Voltaire's solutions have now reached a level of maturity that is encouraging rapid adoption within the industry.”

The ERC's cluster is comprised of 192 dual Xeon processor IBM eServer xSeries x335 servers and connected by Voltaire's InfiniBand solutions to deliver peak performance of 2.3 TFlops. The ERC is using Voltaire's ISR 9600 InfiniBand switches embedded with VoltaireVision management software, Voltaire HCAs and high performance software stack for Linux to support its advanced MPI-based applications. MPI Software Technology, Inc. is providing the ERC with its MPI/Pro™ InfiniBand-aware MPI implementation for the cluster.

“As one of the top university supercomputing sites in the nation, the ERC is at the forefront of computational science and engineering for key industry and government initiatives,” said Arun Jain, vice president of marketing, Voltaire. “This announcement is further validation of the

strength and maturity of our proven, high performance InfiniBand solutions for HPC applications. Our industry-leading expertise and close alliance with IBM enables us to offer comprehensive support for IBM server clusters to ensure dramatic performance improvements at a reduced cost.”

Prior to deploying Voltaire’s InfiniBand solutions, the ERC used Myrinet and GigaBit Ethernet for its cluster interconnect. The ERC selected Voltaire’s standards-based, high performance InfiniBand solutions to replace its current connectivity infrastructure to gain accelerated throughput and enhanced overall performance for its key supercomputing initiatives.

The ERC is using the following Voltaire products:

- Three Voltaire ISR 9600 (96 ports) InfiniBand switches in a full bi-sectional bandwidth configuration
- 192 Voltaire HCA 400 dual-port, 4X InfiniBand host channel adapters
- Voltaire high performance software stack for Linux
- Embedded VoltaireVision management software for advanced fabric management

Voltaire’s ISR 9600 is the highest port-count (96 ports) to be certified by the InfiniBand Trade Association (IBTA), distinguishing it as the most scalable, certified InfiniBand switch on the market today. Voltaire offers a complete family of InfiniBand solutions for HPC applications that balance high-performance hardware with a production-ready, standards-based software stack for HPC clusters and enterprise data centers. The result is unmatched performance within InfiniBand clusters and seamless connectivity with the existing infrastructure.

### **About the ERC at Mississippi State University**

Founded in 1990 at Mississippi State University by the National Science Foundation as the NSF Engineering Research Center for Computational Field Simulation, the ERC is an institute for the advancement of computational science and engineering through research, education and collaboration with industry and government. Its mission is to serve MSU, the state and the nation through excellence in computational science and engineering, and to enable the complementary missions of each of its five associated member centers by providing the appropriate environment, infrastructure and support. For more information on ERC, visit [www.erc.msstate.edu](http://www.erc.msstate.edu).

### **About Voltaire**

Voltaire is a leading provider of high performance InfiniBand solutions for enterprise data centers and HPC environments. Voltaire’s InfiniBand solutions deliver significant return on investment to the data center by improving the performance and utilization of clustered databases, shared servers and storage. For HPC customers, Voltaire leads the industry with the largest InfiniBand Trade Association-certified switch to support clusters scaling from hundreds to thousands of nodes. With business headquarters near Boston, Massachusetts, Voltaire is a certified partner of Hitachi, IBM DB2 and Oracle and is certified by the IBTA’s Integrator’s List. More information about Voltaire is available at [www.voltaire.com](http://www.voltaire.com) or by calling 1-800-865-8247.

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#### **Contacts:**

Christy Lynch  
Voltaire, Inc.  
(781) 276-1571  
[christyl@voltaire.com](mailto:christyl@voltaire.com)

Colin Boroski  
Lois Paul & Partners  
(781) 782-5858  
[colin\\_boroski@lpp.com](mailto:colin_boroski@lpp.com)

