Fujitsu Delivers HPC Price-Performance Breakthrough with Certified PRIMERGY SMP Clusters

-vSMP Foundation Hardware Certification enables HPC applications on Industry Standard Servers

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Regensdorf, September 13, 2011 – Fujitsu today announces a price-performance breakthrough that enables customers to use clusters of x86 PRIMERGY servers for high-end Symmetric Processing (SMP) in high-performance computing (HPC) environments.

Thanks to the official Certification of vSMP Foundation Hardware for Fujitsu PRIMERGY servers by US-based ScaleMP, the leader in virtualization for high-end computing, Fujitsu customers can now create shared-memory clustered PRIMERGY-based systems in cloud-enabled datacenters. As a result, enterprises enjoy savings on hardware costs by running SMP-based software on clusters of inexpensive x86 PRIMERGY servers, instead of being forced to rely on more expensive proprietary systems.

Fujitsu, the HPC market leader in Asia Pacific with more than 1,200 installations, is now also focusing on growing its HPC business in Europe, where x86-based servers already account for the majority of units shipped. Thanks to the addition of ScaleMP certification, Fujitsu expects high levels of customer interest in running HPC applications on PRIMERGY, starting with the newly-certified PRIMERGY RX300 S6 and RX600 S6 models. Support for further PRIMERGY models is planned.

ScaleMP certification means peace-of-mind that PRIMERGY clusters are fully able to support high-performance Open MultiProcessing-based multi-threaded applications, which require large amounts of system memory. An additional customer benefit is that PRIMERGY HPC clusters can be scaled up and down according to system load and demand, instead of tying up capital in fixed-size systems, and allowing for simple future expansion.

By integrating PRIMERGY servers into a single virtual SMP cluster, the high-performance shared-memory system can scale up to 1024 eight-core processors and 64TB of system memory. Clusters are physically interconnected via high-speed InfiniBand, also providing system redundancy for failover or bandwidth scaling. Furthermore, failed system removal and automatic system recovery features are available.

The new x86-based HPC clusters enhance Fujitsu's complete stack of x86 PRIMERGY server-based HPC solutions, which enable engineers and scientists to achieve breakthrough innovation without needing to acquire the specialized expertise needed to set up and operate complex HPC platforms. To address the growing needs of small and medium-sized enterprises, Fujitsu also provides integrated and certified ready-to-go HPC cluster solutions that are optimized for specific business requirements.

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