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CHELSIO'S RDMA OVER ETHERNET SOLUTION TO OPERATE IN MICROSOFT'S CLOUD PLATFORM SYSTEM

With RDMA, Chelsio provides a one stop connectivity solution for the Microsoft Cloud Platform System

Microsoft TechEd EUROPE, Barcelona, (October 28, 2014) – Chelsio Communications announced today that the Chelsio T5 Adapters RDMA over Ethernet solution will operate in Microsoft's Cloud Platform System (CPS). The Microsoft CPS solution is an integrated software and hardware solution enabling customers operate a scalable cloud built using experiences from Azure.

The CPS networking infrastructure is comprised of an Ethernet based frontend fabric and an RDMA enabled storage backend fabric, which utilizes the SMB Direct protocol for high efficiency, high performance storage networking. The SMB Direct protocol enables high throughput, low latency and high efficiency storage, and unprecedented performance in virtual machine mobility. Native system software support for iWARP RDMA in Windows Server 2012 R2 simplifies storage and Virtual Machines management for IT administrators, with no network reconfiguration required.

iWARP is the open IETF standard for RDMA that enables Ethernet networks to achieve high bandwidth, low latency and high efficiency communications. Built upon the solid and ubiquitous TCP/IP foundation, iWARP RDMA uniquely combines the key requirements of routability, reliability and congestion control which allow it to operate over any standard Ethernet infrastructure, from clusters to wide area networks and clouds. Therefore, a CPS installation based on iWARP RDMA can easily scale, using any type of Ethernet switch, with the traditional ease of use that is expected from a TCP/IP based installation.

Chelsio's T5 adapters selected for Microsoft's solution are based upon the fifth generation of its high performance Terminator ASIC architecture. They are RDMA-capable Unified Wire adapters that simultaneously offload iSCSI, FCoE, RDMA and sockets applications, along with traffic management and QoS.

"iWARP continues to be the preferred solution for RDMA over Ethernet combining robust high performance with maximum interoperability and scalability. T5 is the ideal solution for the cloud and storage applications. We are thrilled with the selection of Chelsio's adapters within the Microsoft CPS," said Kianoosh Naghshineh, CEO, Chelsio Communications.



Vijay Tewari, Principle Group Manager, Microsoft, explained: “When we set out to build a high performance and high efficiency storage network, we thoroughly evaluated the different RDMA alternatives, and determined that Chelsio’s particularly robust and high performance implementation of iWARP RDMA provided the best fit for the Microsoft Cloud Platform System. The plug-and-play nature of iWARP over standard Ethernet enables our customers to fully realize the performance benefits of SMB Direct 3.0.”

The T5 based adapters, designed for data, storage and high performance clustering applications, are available today with iWARP RDMA.

Supporting Resources:

Learn more about the [iWARP](#) standard for Cloud and Datacenter applications.

Read about Chelsio benchmark results for [40Gb iWARP over SMB Direct](#).

About Chelsio Communications, Inc.

Chelsio Communications is leading the convergence of networking, storage and clustering interconnects and I/O virtualization with its robust, high-performance and proven Unified Wire technology. Featuring a highly scalable and programmable architecture, Chelsio is shipping multi-port 10 Gigabit Ethernet (10GbE) and 40GbE adapter cards, delivering the low latency and superior throughput required for high-performance compute and storage applications. For more information, visit the company online at www.chelsio.com.

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