Breakthrough Announces SCSI Target Mode Driver Support for New QLogic 2400 Series 4Gb Fibre Channel ASICs and HBAs

Breakthrough Systems has formally released their latest generation of semi-custom Target Mode Drivers and upper level protocol stacks for use with Qlogic's new product line of 4Gb Fibre Channel 2400 family of controller ASIC and HBA products.

Lafayette, CO, September 20, 2005 – Breakthrough has been the primary independent supplier of embedded drivers for QLogic controller products to the storage OEM community for over a decade. By providing semi-custom embedded drivers from their modular library and architecture, BSI reduces the upfront expense to OEMs and at a sharply reduced time to market. By leveraging BSI's existing modular architecture they can also reduce the inherent invention risk of coding a custom driver from scratch.

"We are happy to continue to have Breakthrough Systems as our Target Mode Driver Support Partner. They have consistently delivered the highest levels of quality and reliable drivers to our OEM customers" said Amit Vashi, Senior Director, Marketing for QLogic.

Terry Spear, BSI President commented "QLogic has been our interface ASIC and HBA partner for many years. Their competitors offer example target mode drivers that are minimally functional and essentially extended ASIC documentation. The partnership between BSI and QLogic offers OEMs not only a fully functional and SANmark™ tested Target Mode Driver (TMD) but also the option to deliver advanced storage networking features without tying up scarce OEM internal resources".

BSI has existing modules for all of the most relevant instances of the three key parameters for architecting a TMD:

1) **Specific controller chip** (ISP25xx, and corresponding QLE25xx HBA products)
2) **Operating System** (Linux, Windows, Solaris, VxWorks and other embedded RTOS)
3) **Controller/Motherboard Processor** (x86, ARM, PPC, MIPS, etc.)

For a complete feature matrix see
http://www.breakthroughsys.com/common/interopMatrix.html

Options beyond the current matrix of modules are available on a custom quote basis.

Once an OEM selects the relevant values in each of these categories BSI can very quickly configure and test a semi-custom TMD and optionally the SCSI upper level protocol stack cutting many months off of the design cycle and allowing the OEM's own engineering team to focus on their unique value add rather than on the fundamental storage product connectivity issues.

About Breakthrough Systems, Inc. Based in Lafayette (Boulder County) Colo., Breakthrough Systems, Inc. provides SCSI, iSCSI, Fibre Channel target mode drivers, storage device virtualization, interface firmware products and services to global storage manufacturers. The company's hardware/software-independent software decreases storage OEM's time-to-market and lower costs associated with complex, in-house software development. In addition to target firmware, the company offers SCSI, Fibre Channel and iSCSI software testing and manufacturing support firmware/software for SCSI devices. Customers have included Quantum, Sony, Exabyte, ADIC, Honeywell, Iomega, Seagate, Fujitsu, and other major storage OEMs.

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