BENCHMARK

SpeedWrite™ Boosts Tape Write Performance by 25%

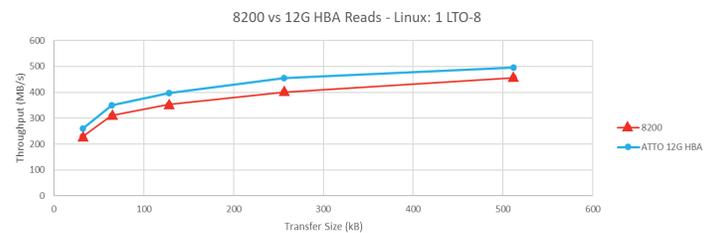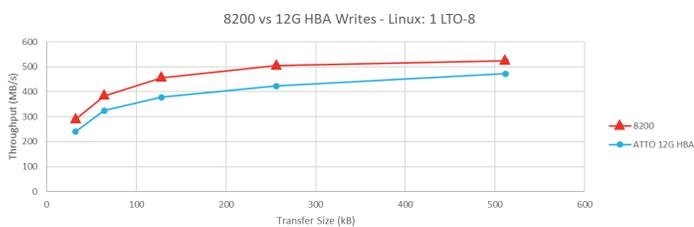### Faster performance with XstreamCORE® versus direct connect SAS HBAs

ATTO SpeedWrite™ Boosts Tape Write Performance

When backing up data, write speed is the most important metric to an organization. ATTO SpeedWrite™ keeps paths between host and ATTO XstreamCORE® *i*ntelligent Bridge filled with data to significantly boost write performance to tape. Multiple hosts can each be talking to different tape drives and all hosts benefit from SpeedWrite's early response mechanism. SpeedWrite boosts tape performance by up to 25% over a direct connect SAS HBA connection to tape drives. SpeedWrite gives a successful response to the host in parallel with sending commands to the drive. Hosts can send the next command down to XstreamCORE, making the system look like tape devices can handle a queue depth of two.

Uncompressed write performance is improved with XstreamCORE® converting Ethernet and SAS

ATTO XstreamCORE® provides provides fast performance connecting Fibre Channel, iSCI or iSER to SAS tape drives

ATTO XstreamCORE *i*ntelligent Bridges connect up to 16 SAS LTO tape drives to a 16Gb or 32 Gb Fibre Channel or 40Gb Ethernet fabric. Connectivity via multiple ports allows up to 6400 MB/s of throughput when connecting with Fibre Channel, up to 6000 MB/s when connecting with iSCI Extensions for RDMA (iSER) or up to 2500 MB/s of throughput when connecting with ATTO hardware accelerated iSCI. Simply connect SAS drives behind XstreamCORE to take advantage of the speed and versatality of standard off the shelf SAS drives without the expense of Fibre Channel or Ethernet tape drives.

XstreamCORE ET 8200 reads are similar in performance experienced over Ethernet when SAS tape drives are connected to SAS HBAs

About ATTO

For over 30 years, ATTO Technology, has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data.
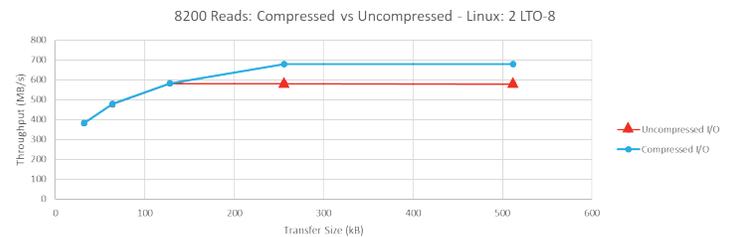
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ATTO Hardware Accelerated iSCI Technology

ATTO engineered the TCP/IP stack into the xCORE Acceleration Processor to improve iSCI performance by accelerated all SCSI, iSCI and TCP commands in hardware without the need for CPU intervention or context switching. Built from the ground up to enable high performance not experienced by software iSCI implementations, ATTO's implementation of iSCSI is fully in hardware and not an offload engine. ATTO hardware accelerated iSCSI eliminates any burden to the CPU and provides and extremely fast connection between iSCSI targets and intiators.

About ATTO XstreamCORE® *i*ntelligent Bridges

ATTO XstreamCORE is a stand alone, *i*ntelligent Bridges appliance which connects any external SAS device, such as a JBOD of HDDs or SSDs, a RAID array or external tape devices and present them on a SAN fabric such as Fibre Channel or iSCI. These appliances offer extremely low latency as a result of ATTO xCORE hardware acceleration and *i*ntelligent Bridging Architecture™ resulting in only 2-4 microseconds of added latency.

Compressed traffic benefits from SpeedWrite while uncompressed traffic hit line rate on SAS tape drives. A total of 6000 MB/s of throughput is available with the 8200 using iSER

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