

Nominee: DataCore Software

Nomination title: **Parallel I/O Software**

Parallel I/O Software was announced by DataCore late in 2015, and was integrated within the latest version of their DataCore SANsymphony-V platform. The announcement of Parallel I/O is the one development that is truly set to revolutionise the world of compute as we know it today. This revolution will allow off-the-shelf commodity servers to become the new storage through the utilisation of integral multi-core CPUs which will fundamentally merge the server and storage infrastructure into one.

The harnessing of multi-cores through parallel computing actually isn't a new technology, but it lost momentum 20 years ago as hardware vendors focused on the development of faster more efficient uniprocessors which directly led to the PC revolution and to today's pervasive use of microprocessors in everything from smart phones to intelligent devices. Parallel Computing back then was viewed as incredibly complex and essentially it lacked the enabling software layer until DataCore announced Parallel I/O software from within their platform, SANsymphony-V in Autumn 2015. This concept was proven back with the announcement in November 2015 with the first set of DataCore SPC-1 results, shattering the world record in price performance on a 2U Lenovo server, running both Enterprise Storage and Application Workloads 5 pence per SPC-1 IOPS™ while driving the Fastest Response Times ever reported.

What are your product's/solution's key distinguishing features and/or USP?

Record breaking Hyper-Converged capability

Handles Compute, Parallel I/O Processing and Storage Workloads in one

Unparalleled performance and processing of I/O-intensive workloads generated by mission-critical enterprise applications

Allows server infrastructure to become storage infrastructure

Audited and tested by the heavily peer reviewed Storage Performance Council (see attached Press Release and Infographic)

What tangible impact has your product/solution had on the market and your customers?

- **Using Parallel I/O software, storage becomes just another application workload**
- **Storage devices can all be virtualized and the services they provide can be delivered via software-defined storage solutions harnessing the power of the multi-core servers.**
- **Parallel I/O software overcomes the I/O bottleneck that has been holding back storage and application workload performance.**
- **The power of x86 servers is being unlocked using Parallel I/O technology integral to DataCore's software and achieve a blistering performance infrastructure and dramatically increased productivity**

levels that simply can't be achieved by traditional storage hardware, and all at a fraction of the price

- Allows you to migrate and manage data across the entire storage infrastructure
- Incorporates flash and hyper-converged systems without adding extra silos and effectively utilise data stored anywhere in the enterprise or in the cloud

What are the major differentiators between your product/solution and those of your primary competitors?

There is no competition. No other software platform uses Parallel Computing to harness the power of multi-cores. Hence the No 1 and now no 2 position in the SPC-1 testing. Chris Mellor noted in his The Register coverage "Tell me that isn't amazing".

http://www.theregister.co.uk/2016/01/07/datacores_benchmark_price_performance/

http://www.theregister.co.uk/2016/01/11/fastestever_spc1_micro_second_response_times/