DATACORE™

Software-defined Storage Platform

The availability, performance, agility and TCO needed to meet the demands of next generation storage

When it comes to IT infrastructure, storage has fallen off the pace. Server performance has dramatically increased, but storage just hasn't kept up, causing applications to slow down. Poor storage and I/O performance are being disguised by techniques that end up spreading workloads unnecessarily across many machines under the excuse of scaling out. In addition, clustered, highly available servers have a Recovery Time Objective / Recovery Point Objective (RTO/RPO) measured in seconds, whereas recovery from storage failures may take several minutes to days of manual processes to restore data from a backup copy or, worse, a Disaster Recovery (DR) site. Lastly, a diverse mix of standardized servers can be managed from a single console, while different storage products and brands each have their own management and can't work together, even if they are from the same vendor.

The DataCore™ SANsymphony™ enterprise-class Software-defined Storage (SDS) platform provides a high-performance, highly available and agile storage infrastructure with the lowest Total Cost of Ownership (TCO).

VIRTUALIZED HOSTS	PHYSICAL SERVERS
DATACORE SOFTWARE–DEFINED STORAGE PLATFORM	
CONVERGED STORAGE SERVER — VIRTUALIZED EXTERNAL SAN — CLOUD STORAGE	

Compared to enterprise storage arrays and other SDS products, DataCore offers the following advantages:

- **Go faster:** Faster I/O for databases, email, VDI and line of business applications means more transactions processed, more data analyzed quicker and increased customer satisfaction, leading to more revenue.
- **Always on:** Highly-available infrastructure means applications are always up, reducing business disruptions and lost sales.

- **Save money:** Run more workloads with better performance and availability by pooling diverse storage assets, deferring hardware refreshes and simplifying administration. This results in remarkable cost savings in both acquisition (CAPEX) and ongoing operations (OPEX, power, cooling and space).
- **Less risk:** High-performance, highly available, agile infrastructure means efficient operations, reduction in disruptions to operations and productive users (employees, customers and partners).

The net result is faster performance, higher availability and greater cost savings across your company through consolidation.

DATACORE™ SANSYMPHONY™ SOFTWARE–DEFINED STORAGE PLATFORM

DataCore SANsymphony infrastructure software takes isolated storage devices, sometimes spread between different locations, and places them under one common set of enterprise-wide services. It pools their collective resources, managing them centrally and uniformly despite the differences and incompatibilities among manufacturers, models and generations of equipment in use. Key features include:
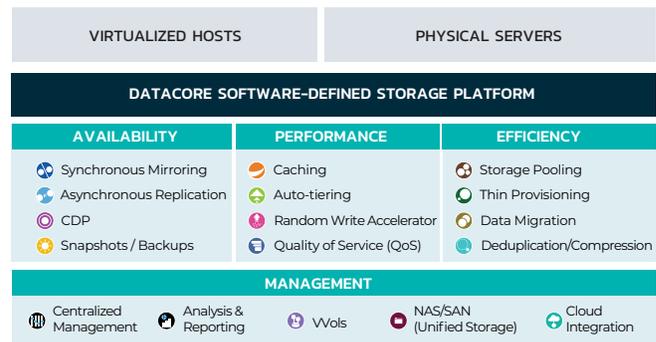
Highest Data Performance

- **Fastest response time in the Industry:** Utilizing DataCore™ Parallel I/O Technology, proven by Storage Performance Council SPC-1 benchmarks[1], SANsymphony is 3-10x faster than any other storage infrastructure product. As a result, applications' data can be accessed, updated and stored faster, for more timely decisions and actions.

- **World leader in price performance:** At least 66% better than the next closest competitor, as shown by the SPC-1 benchmark.

DataCore Price Performance is Off the Curve
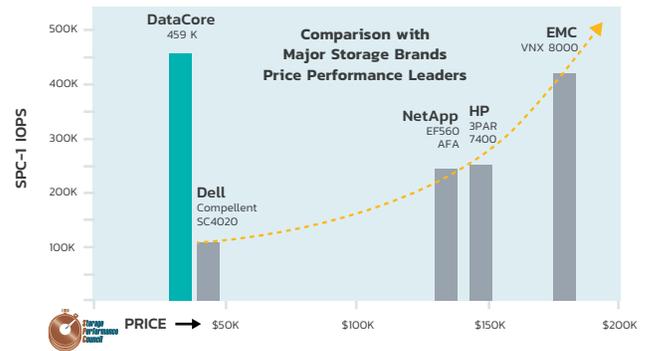
Highest availability with multi-layered protection

- Zero Touch, Zero Downtime means that data is always available, including across a stretch cluster. Storage failures are handled automatically, without any downtime, as is failback.
- For DR purposes, an efficient asynchronous replication scheme assures another copy of the data is available hundreds of miles away for recovery from large-scale regional disasters.
- To protect from ransomware, virus outbreaks and malware, Continuous Data Protection (CDP) keeps all changes up to the previous 2 weeks so applications can be rolled back before the infection occurred.

VIRTUALIZED HOSTS	PHYSICAL SERVERS

DATACORE SOFTWARE-DEFINED STORAGE PLATFORM

AVAILABILITY	PERFORMANCE	EFFICIENCY
Synchronous Mirroring	Caching	Storage Pooling
Asynchronous Replication	Auto-tiering	Thin Provisioning
CDP	Random Write Accelerator	Data Migration
Snapshots / Backups	Quality of Service (QoS)	Deduplication/Compression

MANAGEMENT

Centralized Management	Analysis & Reporting	VVols	NAS/SAN (Unified Storage)	Cloud Integration

Lowest TCO

- Single pane management provides a common provisioning and monitoring framework across all storage devices, decreasing time spent on storage administration.
- Hardware-independent storage services ensure heterogeneous storage devices benefit from a consistent set of advanced services, including support for OpenStack and VVols.
- Freedom to substitute different hardware from competing suppliers when appropriate results in a cost-effective solution, unlike competitors that restrict choice.

Risk Mitigation

- Data can be migrated to different storage devices without disrupting applications' access to data, minimizing risk.
- New technology can be integrated seamlessly, without requiring downtime. This minimizes the uncertainty associated with deploying new technologies and makes storage devices completely interchangeable.

DATACORE CUSTOMERS REPORT UP TO

Source:

www.techvalidate.com

75% reduction in costs
Lower Cost of Ownership

10x performance increase
Faster Applications

100% reduction in storage-related downtime
Higher Availability

90% decrease in time spent on routine storage tasks
Greater Productivity

CASE STUDY: REDUCED DOWNTIME AND PERFORMANCE GAINS IN HEALTHCARE

Englewood Hospital and Medical Center is focused on delivering safe, high-quality and efficient care to their patients. There is zero tolerance for error, from the operating room to the server room, with greater expectations for IT. As Englewood virtualized their servers, they were seeing performance bottlenecks in their applications. In addition, since they ran 24x7, storage downtime, both planned and unplanned, was disruptive to their operations. Additionally, they were expecting a 10x growth in data over 4 years.

To solve their problems, Englewood deployed DataCore SANsymphony SDS platform. The most immediate benefit was the increased performance of their applications. Their Exchange environment responded significantly faster, while their Payroll system ran in half the time and their backups went from 8 hours down to 3 hours. They've also seen the benefit of running in an active-active configuration, as their storage downtime has been eliminated, allowing them to deliver patient care seamlessly and without interruption. Lastly, Englewood has been able to better utilize their existing capacity, extending the life of their current storage assets and driving down the costs of storage.

[1] http://www.storageperformance.org/results/benchmark_results_spc1_top-ten

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Discover the Ultimate Flexibility of DataCore Software

REQUEST A DEMO

DataCore software-defined & hyperconverged storage solutions reduce costs, eliminate vendor lock-in, and deliver ultimate flexibility in how organizations manage, build and modernize their storage infrastructures.

See why over 10,000 customers recognize DataCore Software as the most flexible software-defined storage platform and visit www.datacore.com.

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