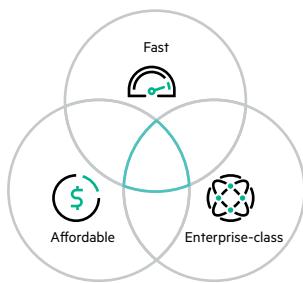


# HPE 3PAR StoreServ tops Storage Performance Council Benchmarks

Affordable all-flash storage with industry's best price performance metrics

Hewlett Packard Enterprise leads in two industry-standard benchmark tests, SPC-1 and SPC-2 designed by the Storage Performance Council (SPC), a vendor-neutral, non-profit corporation promoting storage subsystem benchmarks.



**Key takeaways**

- **Fast:** HPE 3PAR StoreServ 8450 has the right architecture to leverage the unique characteristics of flash to deliver application acceleration, as demonstrated by this SPC-1 result (545,146 SPC-1 IOPS at 0.80 ms latency).
- **Affordable:** At \$0.23 per SPC-1 IOPS, HPE 3PAR StoreServ 8450 delivers the lowest dollar per IOPS for an enterprise AFA, providing superior performance at cost-effective prices.
- **Enterprise-class:** HPE 3PAR StoreServ provides customers with a scalable storage platform that meets the needs of the most-demanding enterprise applications including OLTP, virtual desktop infrastructure (VDI) environments, and business analytics.
- **IO optimized:** Workload acceleration and optimum flash performance on an HPE AFA needs an HPE StoreFabric **SN1100E** Gen 5 16Gb Dual Port Fibre Channel host bus adapters. This solution dynamically delivers up to 1.2 million IOPS on a single port or a combination of two ports.

**SPC-1 Benchmark on HPE 3PAR StoreServ 8450**

HPE 3PAR StoreServ 8450 achieved a world-leading result for SPC-1 \$/IOPS—making it the world's most affordable external all-flash array (AFA) on the planet at \$0.23/SPC-1 IOPS.

The SPC-1 Benchmark focuses on throughput in terms of IOPS and the occasional latency, measuring transactional aspects of storage performance for online transaction processing (OLTP) workloads. IO performance helps customers achieve better business outcomes for their database workloads, such as more orders or product page views per minute at flash speeds without sacrificing affordability.

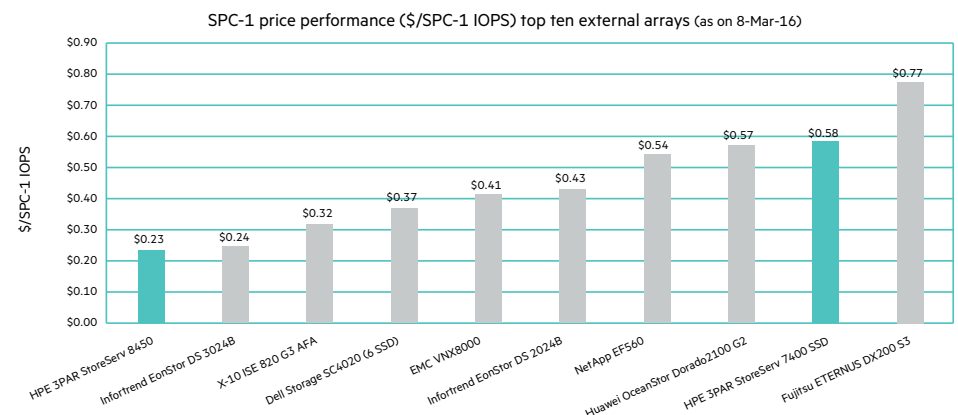


Figure 1: SPC-1 price performance

The SPC-1 Benchmark was achieved with HPE ProLiant DL585 Servers and HPE StoreFabric SN1100E Gen 5 16Gb Dual Port Fibre Channel Host Bus Adapters.

**Key takeaways**

- **First:** HPE 3PAR StoreServ is the first AFA to be listed in the SPC-2 Top-10 for both raw performance and price performance.
- **Performance:** The SPC-2 throughput result (62,844 MBPS) demonstrates HPE 3PAR StoreServ 20850 is one of the highest performing AFA.
- **Economic:** At \$19.63 per SPC-2 MBPS, HPE 3PAR StoreServ 20850 delivers the lowest dollar cost per MBPS for an enterprise AFA, providing superior performance at cost-effective prices.
- **Relevant:** All-flash is a great and efficient consolidation platform. Customers no longer have to waste lots of HDD capacity to get performance, and an AFA like the HPE 3PAR StoreServ 20850 is affordable to achieve higher throughput for business analytics and reporting workloads.

## SPC-2 Benchmark on HPE 3PAR StoreServ 20850

The SPC-2 Benchmark simulates a storage system operating under a bandwidth or throughput-intensive IO workload. SPC-2 focuses on three main workloads that map to a wide set of application and use cases. They include large file processing, large database queries, and video on demand.

HPE 3PAR StoreServ 20850 was the first AFA to be listed in the Top 10 SPC-2 results for both maximum throughput and best price performance. In this comparison for high-end arrays, the HPE 3PAR StoreServ 20850 has one of the best price performance and highest throughput performance.

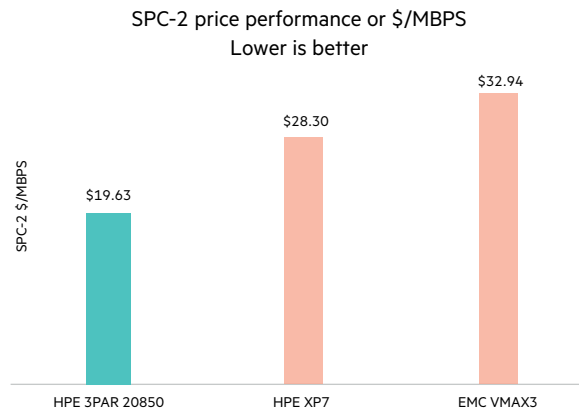


Figure 2: SPC-2 price performance

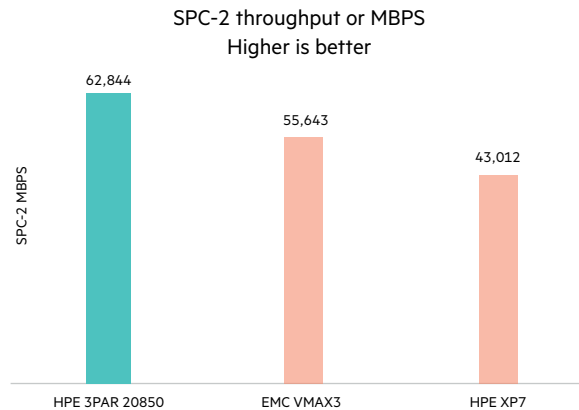


Figure 3: SPC-2 throughput

The SPC-2 Benchmark was achieved with HPE BladeSystem c-Class blades and HPE StoreFabric B-series 16Gb SAN switches.

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