



True Performance of Flash Storage

About AccelStor

Building upon our expertise in software and storage technology, AccelStor is dedicated to using a software-defined approach to unleash the true power of flash-based storage solutions. AccelStor's exclusive FlexiRemap® software enables storage arrays to achieve unparalleled scalability, performance and efficiency. Our storage products deliver not only super-fast data access, but also low total cost of ownership (TCO) – particularly beneficial for enterprise applications such as high-performance computing (HPC), media production and cloud solutions.

Core Competence

Innovations beyond technical fluency: AccelStor sees flash storage from a whole new perspective; that is, we enhance it through software technology – and we intend to lead.

Determination to succeed: Unlike our competitors, AccelStor provides hardware storage products as well as exclusive flash memory and storage-acceleration software derived from our expertise in this field. AccelStor delivers the best product experience in terms of both hardware and software.

Agility to meet all needs: AccelStor's storage systems are available with a range of connectivity options and specifications. Plus, customers get AccelStor's full support of the software system. Our NeoSapphire all-flash arrays are the perfect storage solution for a variety of intensive enterprise applications, ensuring bottleneck-free performance.

FlexiRemap® Technology

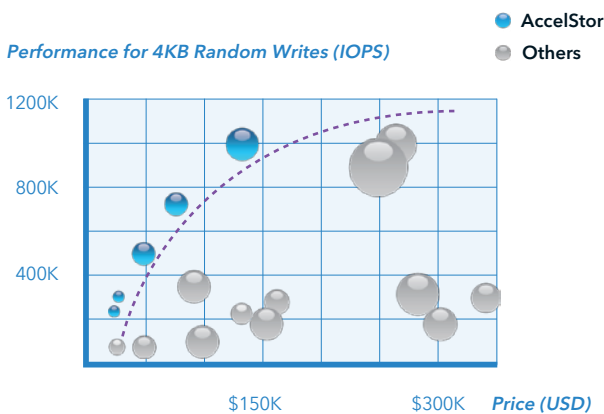
Developed by AccelStor, FlexiRemap® is software technology fundamentally designed for flash memory. Adopting the methodology of software-defined flash, FlexiRemap® harnesses the power of modern processor architecture by managing the underlying flash memory directly from the kernel level of the operating system. FlexiRemap® features fault tolerance with enhanced data integrity through redundancy. Unlike conventional RAID 50, FlexiRemap® achieves the same level of protection with greatly reduced overhead from regular operations. And, space efficiency is much higher as compared to RAID 1. The power of FlexiRemap® technology is optimized when used with AccelStor NeoSapphire all-flash arrays, which can deliver over 1M IOPS for 4KB random writes in standalone rack-mount form factors, reaching top-tier performance for storage systems in enterprises and datacenters.

The Four Main Features of FlexiRemap® Technology

- ◆ **Designed specifically for flash memory:** Underlying flash memory is managed from the core level of the operating system.
- ◆ **Improved performance:** Scheduling is done intelligently during random writes, accelerating data access.
- ◆ **Extended solid-state drive (SSD) lifespan:** Data is written onto each SSD evenly to prevent any section from wearing out prematurely due to overuse.
- ◆ **Simplified management:** Several SSDs in an array are integrated into a single store, maximizing both data-access performance and capacity.

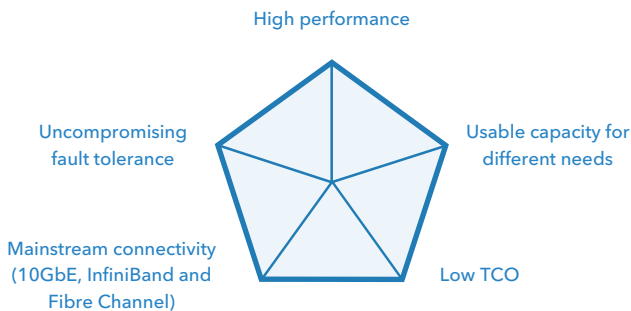
NeoSapphire All-Flash Array Series

AccelStor's NeoSapphire series comes in a range of models, form factors, and configurations to deliver outstanding performance in a reliable system. Powered by all-flash arrays and AccelStor's exclusive FlexiRemap® software technology, NeoSapphire features extremely high IOPS even for 4KB random writes. With up to 1 million IOPS for 4KB random access, NeoSapphire greatly speeds up data access and processing, while conserving power and space utilization. The NeoSapphire series is an ideal solution for random read/write operations that conventional storage systems find difficult to process, or for huge volumes of data that must be processed instantly.



NeoSapphire Series Highlights

- Very high performance, with over 1 million IOPS for 4KB random access.
- High availability with no single point of failure and active-active failover.
- Fault tolerance and automatic data reconstruction upon drive replacement, plus ease of maintenance via front-accessible and hot-swappable SSDs.
- Low TCO and high energy efficiency, enabling enterprises and datacenters to do more with less.
- Web-based GUI, software plug-in and RESTful APIs for simplified system setup, health monitoring, and unified management.



NeoSapphire series profile

Typical Applications

1. Virtualization (client and server)

NeoSapphire all-flash arrays enable enterprises to deploy a powerful solution for virtualized applications. Our products outperform the competition and deliver outstanding performance even for dynamic and demanding workloads. NeoSapphire is a worry-free storage solution for boot-up storms or large numbers of I/O-intensive virtual machines.

2. High-performance computing (HPC)

Compared with typical enterprise applications, HPC places more intensive demands on storage systems, requiring significant levels of performance. With sustained 700K IOPS, NeoSapphire all-flash arrays are perfect for computational analysis, data-intensive research, data mining, and large-scale simulation.

3. Database

NeoSapphire all-flash arrays provide abundant data protection and deliver excellent storage performance with guaranteed capacity. They reduce I/O-access latency to microseconds, significantly enhancing application performance.

4. Media production

NeoSapphire all-flash arrays are designed to remove performance bottlenecks inherent in the intensive workloads of collaborative editing. Through seamless integration with partner solutions, our media production offerings help professionals in this field achieve a true SAN workflow by providing multiple Windows, macOS and Linux workstations with concurrent, managed access to shared data.

Achievements

* Based on Active SPC-1 Results as of January 13, 2017.

** Specifications vary depending on models. Product specifications and prices are subject to change without notice. Products may be discontinued without notice.

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**** "Usable capacity" refers to the approximate storage capacity available to the user. The actual usable capacity may vary depending on the software version and other factors.