

EBOOK

5 Reasons to Deploy Hitachi Content Software for File for **High Performance Financial Applications**

hitachivantara.com



The Top 5 Reasons to adopt Hitachi Content Software for File for Financial Services.

Most modern financial institutions are leveraging new technologies such as AI and analytics to get the competitive edge on the competition. Data driven algorithms are capable of crunching vast amounts of data for better investment strategies and risk analysis. It's not only about adopting state of the art hardware and software architectures, but given laws and regulations, financial companies must safeguard customer data with extreme diligence. Hitachi has a proven track record with some of the largest banks and institutions, and **Hitachi Content Portfolio** fits the bill perfectly with record-breaking performance, security, and scalability only available with Hitachi.

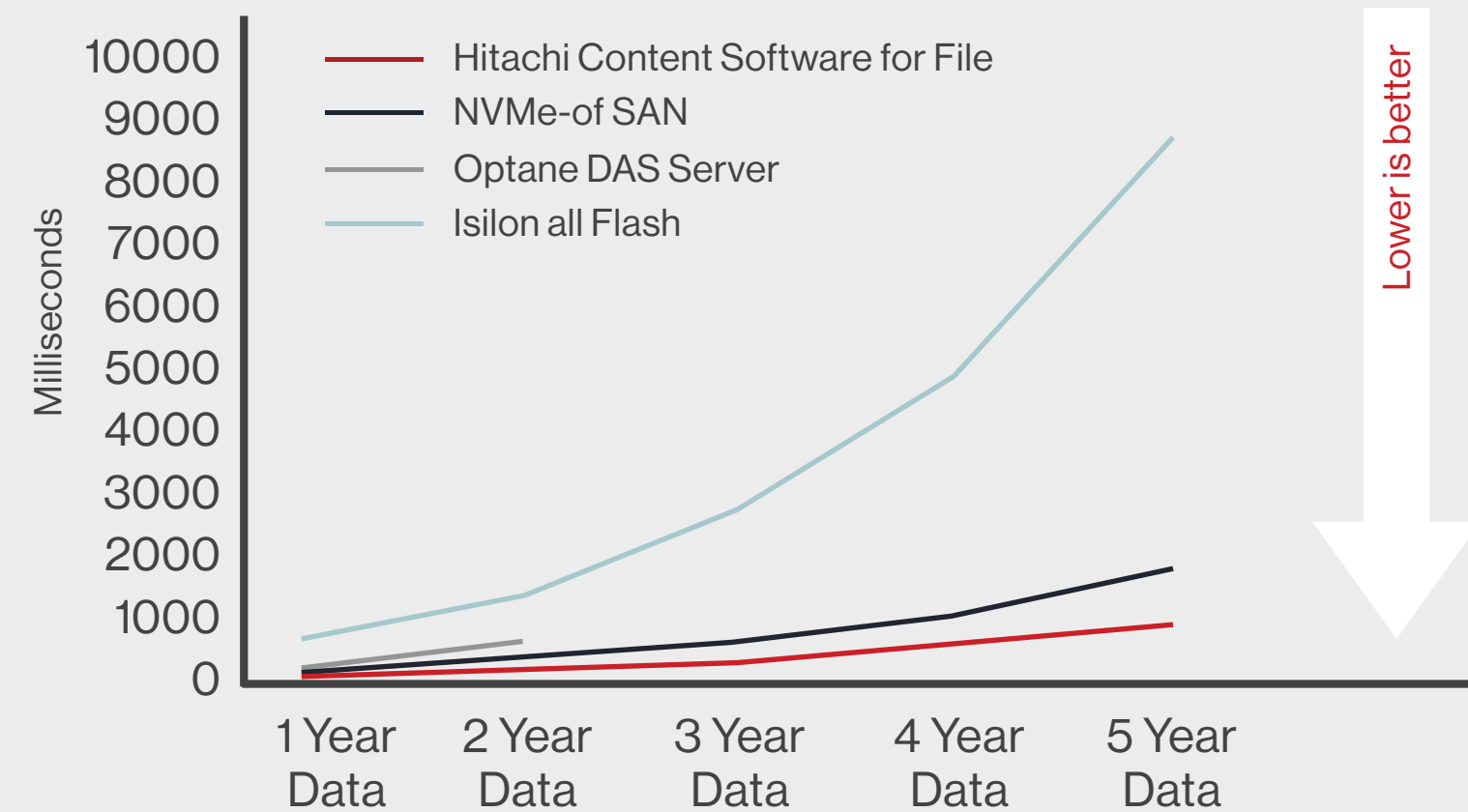
- 01** Benchmark Performance for Algorithmic Trading, Risk Mitigation/Analysis
- 02** Eliminate Data Bottlenecks For Quantitative Trading (Customer Study)
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- 05** Zero Copy/Zero Tuning Architecture Enables High Performance Applications

01 Benchmark Performance for Algorithmic Trading, Risk Mitigation/Analysis

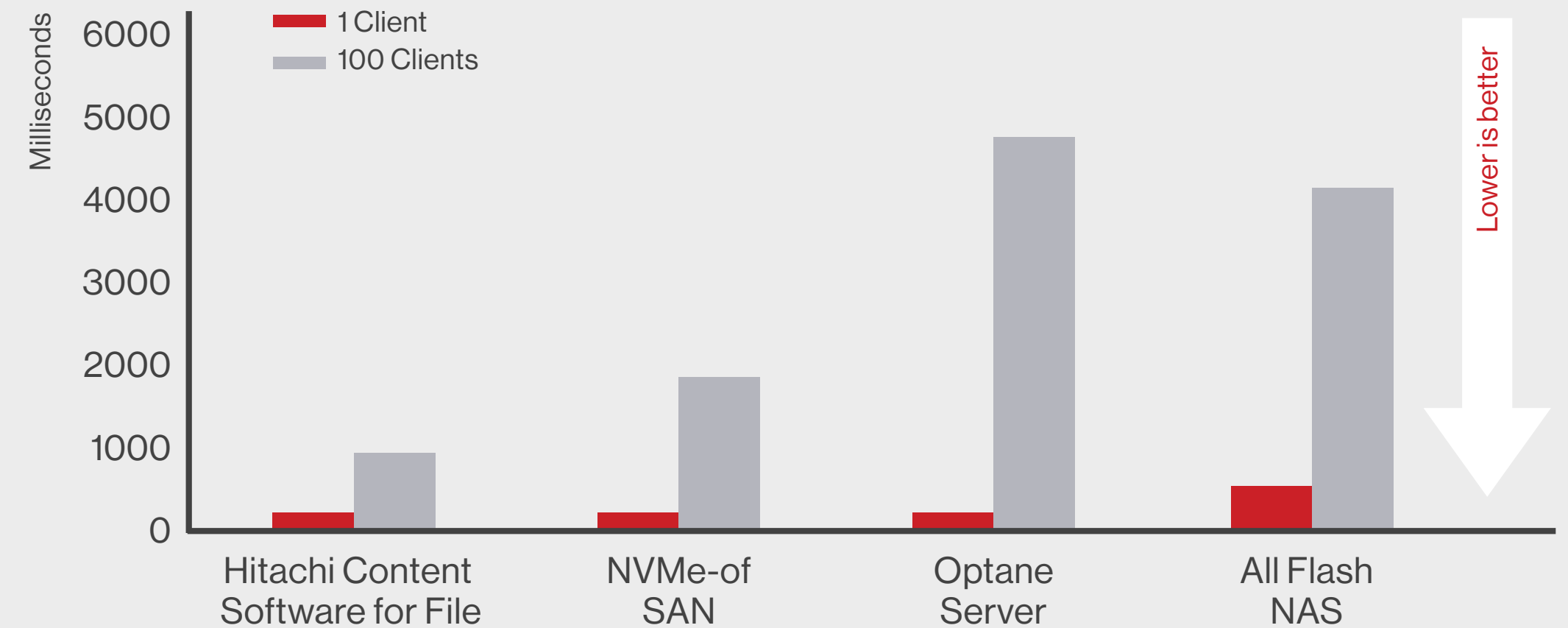
[Hitachi Content Software](#) for File eliminates storage bottlenecks and allows financial companies to create massive data lakes to analyze market trends. Taking advantage of high performance and low latency properties of NVMe enables algorithmic trading and back-testing like never before. Accelerate workloads with NVIDIA GPU Direct capability allowing real-time analytical insight to become a reality.

Record Breaking Performance on STACM3

High Bid Over Increasing Data Size



Volume Weighted Bid for 1 Client vs. 100 Clients

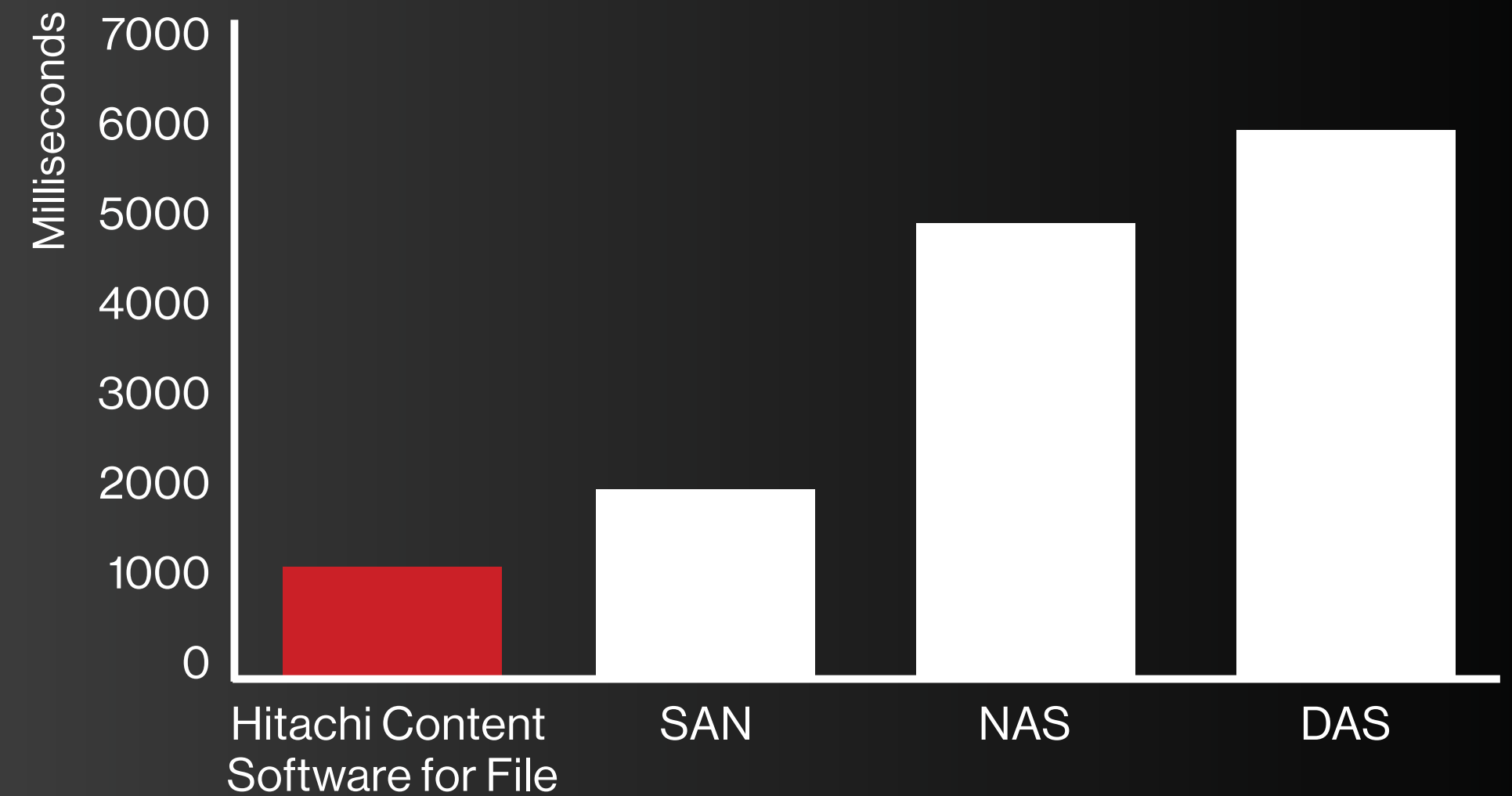


02 Eliminate Data Bottlenecks For Quantitative Trading (Customer Study)

A major quantitative trader's automated proprietary trading solution, was deployed from shared parallel file system, that had major data bottlenecks causing a 75% drop in realized performance. After Implementing Hitachi Content Software for File, the customer realized an overall performance gain of three times their previous solution. Performance exceeded local NVMe drives, eliminated the need to copy data to the application servers, and realized a 65% saving on storage costs by reducing the need to copy data to the local analytics platform.

Latency is the Enemy of Trading

Low Latency | 4X faster than all-flash NAS | 4.5X faster than DAS/OPTANE



03

Reduce Costs and Increase Scalability for Equities Trading (Customer Study)

A major New York Stock Exchange institution providing an equity trading platform found that its growing cost of infrastructure was prohibitive. Scaling was extremely challenging, and they lacked a robust DR strategy because of the overwhelming costs increases involved. With Hitachi Content Software for File, the institution has seen seven times the performance, allowing a reduction of compute resources to one-seventh of expected purchase. A modern solution allows for easy recovery in the case of a major disaster, and massive cost savings in compute and shared storage.



04

Security, Data Protection, Ransomware Protection and Disaster Resiliency

Data is the lifeblood of a company; unfortunately, security breaches and ransomware attacks are all too common. Threats are constantly becoming more sophisticated and regulations more stringent. Traditional storage architectures simply can't keep pace with compliance. Hitachi Content Platform is a leader in compliance storage technology designed to handle the modern demands of sensitive data storage.

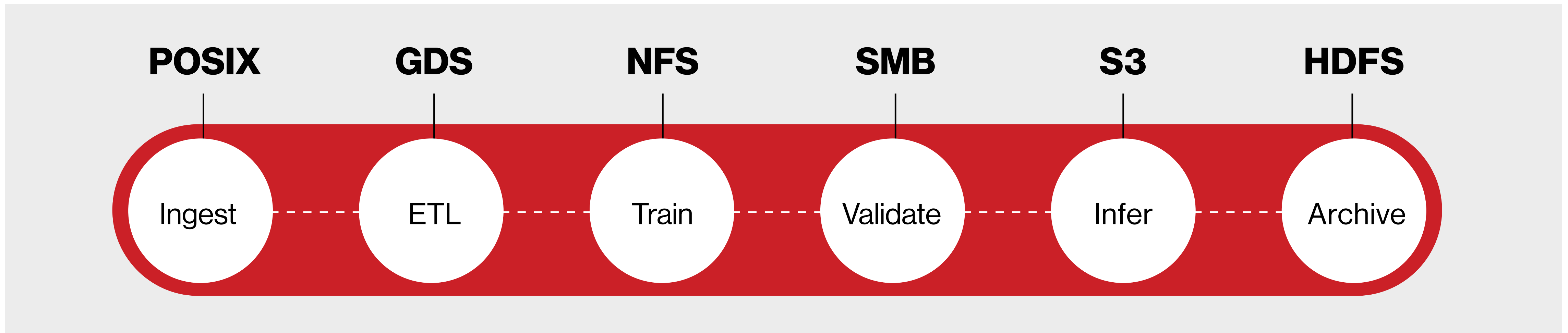


Enterprises require a modern data storage architecture for regulatory compliance information. This is exactly what Hitachi Vantara offers with. Any enterprise seeking to reliably and securely manage sensitive data in this modern digital era needs to add Hitachi Vantara to the short list of technologies under consideration.”



05 Zero Copy/Zero Tuning Architecture Enables High Performance Applications

The idea is simple, with Hitachi Content Software for File you can run your entire pipeline on the same storage backend and eliminate the cost and delays of copies. With Hitachi Content Software for File you get zero Tuning Mixed Workload Support. This essentially is a blazing fast filesystem, supporting high I/O at low latency, small files, mixed workloads & data portability. Run on-premises, in the cloud and burst between platforms with ease. Eliminating the multicopy bottlenecks you get “Faster than Local Storage” and you can effectively accelerate large scale data pipelines with reduced epoch times, and lightning fastest inferencing for AI/ML applications. Hitachi Content Software for file has native multi-protocol support for POSIX, NFS, SMB and S3 along with NVIDIA GPUDirect Storage.



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Hitachi Content Platform H(CP) is named a leader in the 2022 GigaOm Radar for Unstructured Data Management Business Solutions and rated as exceptional for metadata analytics, big data analytics, and compliance and security.