

Delivering Big Rewards in Backtesting, Risk Management, Pricing, and Fraud Detection

A large U.S. proprietary trading firm consolidated Kx[®] servers for 10x faster performance cost-effective, scalable support for multiple functions in a multi-tenancy environment.

A Large U.S. Hedge Fund transitioned to DDN and realized a 3x improvement in algorithm development speeds and deterministic run times.

The investment banking arm of a large international bank moved to DDN and reduced key analytics tasks by up to 80%.

A well-known online payment service used DDN to reduce detection times for fraud in credit card transactions, stopping hundreds of millions of dollars in fraud per year.

Financial Services

Every ATM transaction, each online trade, and any credit card tap by a customer opens endless opportunities for financial institutions to capitalize on insights gained from that data. Hedge funds, proprietary trading firms, and major banks are feeding these data sources with additional trading venues for best execution, news feeds for sentiment analysis, cross-product customer databases, and more.

And now, AI and machine learning are increasingly used to make better business and operational decisions as more financial institutions see the merits of data-driven approaches to stay relevant and competitive. Thanks to DDN solutions, leading financial institutions are finding new ways to mine these large datasets to reassess how they operate, innovate and, ultimately, be more profitable.

When Speed Matters

In this hyper-competitive industry, every fraction of a second directly translates into financial gain. Leading hedge funds, proprietary trading firms, and other financial institutions are adopting DDN's approach that lets them take advantage of parallelism.

DDN delivers demonstrably faster financial analytics for higher accuracy at lower costs with a smaller footprint. DDN platforms provide fast, scalable, external disk systems with massively parallel access to data.

With DDN, researchers and AI applications can now perform analysis against much larger datasets and quickly deliver more effective models to market. Faster access to data also allows optimized AI applications to gain deeper consumer insight and deliver relevant products and services, assist in risk assessment, and improve fraud detection and management.

Real-World Results and Benefits

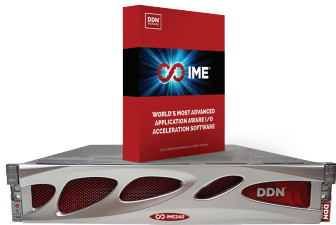
Leading financial institutions have been leveraging parallel file systems such as Lustre to deliver several important advantages. The primary advantages behind parallel storage are sustained high performance and the ability to easily scale upward to support larger workloads. When used in conjunction with in-memory databases like kdb+, some examples of the advantages are:

- Up to 5x improvement in algorithm development speeds
- Scaling storage IO performance linearly or near-linearly as Kx servers are added
- Shared access to large volumes of data over multiple, internal teams
- Eliminate data silos and simplify data management infrastructure
- Minimizing datacenter footprint and TCO and eliminating siloed infrastructure



A³I

DDN A³I storage solutions are fully-optimized to accelerate machine learning and artificial intelligence (AI) applications, streamlining deep learning (DL) workflows for greater productivity. Working with industry leaders like NVIDIA and Hewlett Packard Enterprise (HPE), A³I artificial intelligence storage solutions harness the knowledge from customer-proven deployments to make AI-powered innovation easy. A³I is a turnkey, AI data storage infrastructure for rapid deployment, featuring faster performance, effortless scale, and simplified operations through deeper integration—all backed by the data-at-scale experts.



IME

IME delivers up to 1000X application and file system speed-up with the world's most advanced application-aware I/O acceleration software, removing randomness out of workflows and reducing uncertainty and erratic performance in the cluster. This break-through storage application eliminates POSIX contentions, enabling you to convert problem I/O-bound applications into easily resolvable compute-bound challenges. Developed to drive faster time to results, IME delivers game-changing latency reduction, more bandwidth and unmatched IOPS.



Parallel Filesystem Solutions

DDN's file system solutions delivers best-in-class analytics, parallel file system and NAS for the most data-intensive and performance-demanding environments. Next-generation Appliances tightly integrate award-winning DDN HPC storage technology with the power of parallel file systems to provide flexible choices for data protection and availability, offering ease of access through traditional NFS or CIFS as well as the option for high performance client access.



Block Storage

To perform cutting-edge workflows and analytics, our highly versatile SFA Platforms deliver award-winning technology with the necessary breakthrough performance and capacity with NVMe, SSD and intelligent disk tiering. Maximizing their innovative PCIe fabric plus the option to leverage the power of embedded processors, applications and file systems within the storage array to significantly reduce complexity, latency and data center footprint. From the performance focused SFA 200NVX and 400NVX all flash NVMe systems, to the versatile hybrid SFA7990X and the ultimate in performance and capacity with the SFA18KX, DDN has the form factor to fit the uniqueness of your use case.

About DDN[®]

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. DDN has designed, developed, deployed, and optimized systems, software, and solutions that enable enterprises, service providers, research facilities, and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud.

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