Financial Services

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.

Dynamic consumer and market behavior, a web of regulatory and compliance rules, and rapid innovation in financial strategies are creating both complexity and new opportunities for financial institutions to capitalize on insights gained from data. Hedge funds, proprietary trading firms, and major banks are feeding their data repositories with accretive trading venues for best execution, news feeds for sentiment analysis, cross-product customer databases, and other unstructured sources.

Emergent AI and machine learning technologies allow organizations to make better business and operational decisions and financial institutions increasingly see the merits of data-driven approaches to stay relevant and competitive. Today, leading financial institutions are finding new ways to mine these large datasets to reassess how they operate, innovate and, ultimately, be more profitable by using DDN to consolidate, simply and increase the utilize of diverse data types.

Accelerate Your Discovery

In this hyper-competitive industry, every fraction of a second directly translates into financial gain. DDN's approach that lets data-driven institutions take advantage of parallelism on premises or in the Cloud to maximize the ROI of all parts of their information infrastructure.

DDN delivers demonstrably faster financial analytics for higher accuracy at lower costs with a smaller footprint. DDN platforms provide scalable shared storage with massively parallel access to data. 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.

Featured Use Cases

Leading financial institutions have been leveraging DDN parallel file system solutions to impact several important workflows. The primary advantages behind parallel storage are sustained high performance and the ability to easily scale upward to support larger workloads. Beyond faster analysis, consolidating on shared infrastructure, faster data movement and Cloud based application yield extraordinary results. Some sample use cases:

- 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

- Large scale data migration for central consolidation of movement to Cloud

- Cloud bursting for seasonal or highly variable high performance analytics

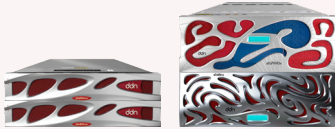# DDN Solutions for Financial Services

A³I

DDN A³I storage is the industry's leading platform for artificial intelligence (AI) and analytics applications. Working directly with NVIDIA Engineering to optimize the data path from storage to GPU, A³I artificial intelligence storage solutions harness the knowledge from customer-proven deployments to make AI-powered innovation easy.

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. 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.

EXAScaler

DDN's EXAScaler solutions delivers best-in-class analytics, parallel file system, NAS and Object for the most data-intensive and performance-demanding environments. Next-generation Appliances tightly integrate award-winning DDN storage technology with the power of parallel file systems to provide flexible choices for data protection and availability, offering ease of design, deployment and management on premises or in the Cloud.

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 SFA200NVX 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 premises and in the cloud.

+1.800.837.2298 · sales@ddn.com · ddn.com