

WEKA for Financial Services

Accelerate Financial Data with the AI-Native WEKA® Data Platform

CHALLENGES

- Ensuring real-time analytics
- Fast transactions
- Reducing latency
- Optimizing GPUs
- Scaling on-prem & in the cloud
- Managing mixed IO workloads
- Securing data

WHY WEKA

- Accelerate Analytics for risk management and fraud detection with dynamic performance and capacity scaling
- Deliver Model to Deployment Transactions with exceptional performance
- Optimize GPUs with best-in-class GPU saturation
- Outstanding Agility with on-demand scalability, tiering, & cloud bursting
- Data Protection with built in disaster recovery and business continuity
- Exceptional Performance Density Results in Cost Savings with shared storage across each node in the HPC cluster

- Investment Banking
- Credit Companies
- Crowdfunding Platforms
- Digital Lending
- High Frequency Trading
- Insurance Underwriting
- Quantum Trading
- Brokerages
- Payment Providers
- Quantitative Trading
- Robot Advising
- Wealth Management

UP TO 65%

reduction in storage costs

90%

project acceleration with The WEKA Data Platform

UP TO 30%

reduction in wall-clock time

Financial services institutions of all types are rapidly undergoing a revolution as AI-based models and algorithms are driving decision making in analytics, trading strategies, underwriting, banking, and every other corner of the financial sector. With the burgeoning developments in AI, success is consistently measured by fast execution based on scientific models, and leading financial companies are seeking out new strategies to gain better market insights and improve business outcomes.

Speed is imperative when analyzing vast amounts of data, and the companies that can run more complex models faster than the competition are the winners. The constant evolution of new models presents a high level of unpredictability for data infrastructure and requires a modern IT architecture that can handle the most demanding, data-driven AI workloads. Adopting an AI-native modern data platform ensures improved performance, simplicity, agility, scalability, and data security.

With the WEKA Data Platform, financial institutions can optimize their data pipeline performance and handle enormous data sets efficiently. WEKA powers GPUs up to 20x faster, which means your GPUs and modeling software spend less time idle waiting for data. Our zero-tuning capability also assures that every application in your analytics pipeline gets the performance it needs.

WEKA's performance improves wall clock time to help ensure service level agreements (SLAs) are met or exceeded, and it dramatically simplifies infrastructure management with no HPC compute cluster downtime. And because data protection is of the utmost importance, we have equipped our platform with built-in disaster resiliency.

Agile, cloud-based solution with automated tiering and cloud bursting

Highest performance for algorithmic trading, portfolio analysis, and risk management

Security, data protection, and business continuity

The WEKA Data Platform



Secure Support with WEKA

WEKA's Customer Success services offer comprehensive support, including proactive monitoring, advanced troubleshooting, and tailored enablement for optimizing WEKA's data platform. With 24/7 global support, the WEKA team provides remote assistance, on-site services, and specialized support for government and secure sites. Key features include a robust SLA system, WEKA Home for remote monitoring, and extensive software support. WEKA's services are designed to ensure optimal performance and reliability for customers' AI, ML, and HPC workloads.

The Local WEKA Home is a support feature that allows users to manage and monitor their WEKA clusters without relying on external cloud services. It provides a local repository for logs, metrics, and cluster information, ensuring data stays within the user's environment for enhanced security and control. This solution is ideal for environments with strict data governance or limited internet connectivity, offering full visibility into cluster operations while maintaining compliance with internal policies.

For more details, visit [Local WEKA Home Overview](#).

WEKA delivers the best possible wall clock time for latency sensitive quantitative and high-velocity analytic workloads.



The performance of their low-latency, high throughput platform is unparalleled.



Problem

Needed to produce complex trading simulations and execute millions of trades each day to ensure they could capture opportunities quickly.

Solution

The WEKA® Data Platform agilely and dynamically supports the high-performance and scalability requirements of Squarepoint's automated trading systems. The low latency and scalability support real-time decision-making and trading strategies.

"Our existing Network Attached Storage (NAS) was too slow to effectively cover analytics workloads. WEKA proved to be 10x faster and allowed for seamless backup to our object store."

— A CAPITAL MARKET CLIENT

The WEKA Data Platform delivers the **best performance to large-scale CPU and GPU-based financial services**, enabling real-time analytical insights needed for fast changing market dynamics.

*CPU allocation can vary depending on total number of nodes in the cluster, the number of inodes in the workflow, and the desired performance. Frontend (FE) processes consume 2.2GB memory per process, DRIVE processes consume 2GB memory per process, COMPUTE processes by default consume 3.9GB per process, but can be increased to handle more inodes and/or improve write performance. Each WEKA process must be assigned to a NIC, preferably 100/200/400Gb ETH or IB for best results.



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