

Scalability for Data Growth

Instant Access for Improved Financial Analytics



In financial services, the ability to access and analyze massive data sets as quickly as possible determines **competitive advantage**

More Data in Real Time



Investments

The need to make fast, informed decisions with a combination of historical and real-time market data improves:

Financial analytics
Quantitative trading

Customer Experience

The ability to access historical customer data in real-time analytics applications greatly improves customer service through:

Personalized banking
Real-time fraud detection



Accelerate time to insights across financial services with

Intel® Optane™ Technology

intel OPTANE™ PERSISTENT MEMORY



Affordably expand memory capacity
Support for data persistence

intel OPTANE™ SSD



Consistent high performance and near-nanosecond latency
Higher endurance for longer life, less maintenance & downtime

Optimize infrastructure ROI and reduce TCO

Intel Optane Persistent Memory and MemVerge



Intel has partnered with MemVerge Inc. to create Memory Machine™

- Train and infer from AI/ML models faster
- Work with larger data sets in memory
- Complete more queries in less time
- Consistently replicate memory between servers

Let's examine one financial services firm recovering

500GB from a crash¹

From **3 hours** to **2 seconds**

Intel Optane persistent memory paired with MemVerge Memory Machine software

resulted in **5400x** faster performance²

Intel® Optane™ SSDs & VAST Data®

With VAST Universal Storage, market data can be stored on **one tier of scalable, affordable flash** making it possible to backtest and train trading models in real time



Driving down cost of flash infrastructure

Bringing an end to complex storage tiering

Intel Optane technology enables

financial services institutions

to effectively and efficiently extract value from massive data sets now

and into the future ▶

intel OPTANE™

Learn More www.intel.com/optane

Sources

¹ <https://memverge.com/increase-availability-with-lightning-fast-in-memory-database-crash-recovery-2/>

² <https://www.intel.com/content/dam/www/public/us/en/documents/solution-briefs/hpc-fsi-manufacturing-brief.pdf>

Performance varies by use, configuration and other factors. Learn more at www.Intel.com/PerformanceIndex. Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. No product or component can be absolutely secure.

Your costs and results may vary.

Intel technologies may require enabled hardware, software or service activation.

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