



Accelerate high-frequency trading

Trade and Match Solution for high-frequency trading (HFT) order execution

Trade faster with a HFT optimized solution designed to increase performance, consistently lower latency, and co-locate easily in exchange data centers.

Maximum performance to process high volume automated trades faster to gain competitive advantage, without increasing IT spend

The HFT building block:

- HPE ProLiant DL380 Gen10 server
- Unique high-frequency 8 core processor
- 4 Small Form Factor drives
- Enterprise-grade solution including ECC memory, and enterprise level components

Trade and Match Server improvements:

- Up to 2.5X performance of Gen9 Trade and Match Solution
- No need to overclock processor, requiring power and voltage setting adjustments and other tuning nuances
- Scale with Apollo 6000 Gen10 Servers to 24 node clusters for Trade and Match engine matching



When microseconds count

The HFT marketplace is rapidly changing and only those players that continue to innovate and push through what their competitors see as a playing field of diminishing returns will go on to thrive. Speed is of the essence for exchanges, brokerages, and trading firms that capitalize on high-frequency trading (HFT). Trade execution times are measured in microseconds, and a huge number of orders and order cancellations are required with the arrival of new market information. High-frequency traders maximize their revenues via their absolute and relative speed in executing trades. In this environment, extremely low latency provides a critical competitive advantage.

System latency can be reduced:

- Through faster processing, enabled by advanced high-performance computing (HPC) architectures, and

- By taking advantage of the opportunity to co-locate servers on the same network as the stock exchange, reducing the physical distance that data must travel.

Transaction time consistency can be improved by:

- Reducing magnitude of jitter events by leveraging newer more performant processors
- Enabling turbo mode to maximize performance without prior generation's need for Over-Clocking
- Configure the OS in such a way that allocates most of the CPU cores for dedicated applications

The Trade and Match Solution enables these advantages, while also providing enterprise reliability, security, and ease of deployment with HPE ProLiant DL380 and Apollo 6000 Gen10 servers



Business outcomes

Reduce latency with advanced HPC technology

The CPU is the brain of any system. The Trade and Match Solution is factory configured for performance, security, and reliability:

- Unique Intel® high-frequency 8-core processor more powerful than standard 8-core CPU's to obtain the fastest possible processor speed.
- Enterprise-grade solution optimized for applications that run best with low core count and max frequency, for example, trade executions.
- Enterprise quality components provide enhanced system reliability and consistent performance including ECC memory for detecting and then correcting single-bit memory errors.
- Access to HPE Centers of Excellence and HPE Subject Matter Experts (SMEs) for application tuning and optimization. The Trade and Match Server can be optimized for both in-house developed applications and commercial offerings.
- Optional add-on: The HPE Intelligent System Tuning can be used to minimize jitter and easily tune and optimize system settings via workload matching.

Co-location is critical

Co-locating within an exchange data center provides significant latency reduction, and is a competitive necessity.

However, exchanges typically have strict space and power limitations. The Trade and Match Server is based on a standard rack form factor, compatible with standard data center racks. Ruggedized options exist for non-traditional co-location scenarios.

HPE Pointnext

All areas of high volume automated trading, most notably HFT computing must be flexible, scalable, and fast, processing volumes of data to make trades in real-time, in changing market conditions. How fast data can be processed is critical, and the only difference between competitors may be only a fraction of a second. HPE Pointnext can offer services for the unique needs of your HPE HFT solution.

HPE Pointnext offers services for the unique needs of the high-frequency solution:

- Advisory Services to create a strategy and design that will meet your trading requirements
- Professional Services for implementation to quickly bring your solution into production
- Operational Services to support and help make the most of your high-frequency solution

Customers receive the expertise, availability, responsiveness, and financial benefits to gain a faster time to value. HPE Pointnext helps to optimize the solution, minimize risk, and keep the business growing and operating seamlessly.

HPE Technology Refresh Program

Accelerate plans to update your IT infrastructure, in as little as 18 months, and maintain your competitive edge, while avoiding the costs and resources required to maintain aging IT. Consider a Technology Refresh program that allows you to make monthly payments and routinely refresh your infrastructure, while satisfying the needs of both IT and Finance.

- Create a programmatic data center refresh discipline
- Pay for IT over time and conserve cash
- Choose monthly or quarterly payments and desired refresh cycle
- You have the option to return and refresh or purchase at the end of term

Don't wait any longer—claim your HFT advantage today.

Learn more at [FSI Solutions](#)



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