Gain a Sustainable Competitive Edge in Global Capital Markets

“The Intel® Xeon® processor E5-2697 v4 makes a real-world difference for users of our agile, high-performance trading solutions, giving our customers a further edge in their trading.”

- Joakim Hassila, Chief Technical Officer, Itiviti

With Itiviti and the Intel® Xeon® processor E5-2697 v4, you can:

- **Integrate world-class capabilities** into your trading platform to stay ahead of the game.
- **Maintain high performance** during heavy trading, with up to 30 percent lower latency than previous-generation processors.¹
- **Achieve new levels of agility** with a modular and transparent architecture.

In a world where capital markets continuously evolve and regulators endeavor to keep them in check, an electronic trading platform must be as flexible as it is fast. Tbricks by Itiviti* running on the Intel® Xeon® processor E5-2600 v4 product family is designed to deliver a sustainable competitive advantage in this dynamic environment. With its world-class capabilities, transparent architecture, and modular design, this high-speed trading platform can help trading firms, banks, and brokers stay ahead of the game.

Based on a recent benchmark study, the Intel® Xeon® processor E5-2697 improves application performance for Tbricks* Market Making* by up to 30 percent,¹ which can help to deliver faster and more consistent trading performance under heavy loads. According to Joakim Hassila, CTO for Itiviti, “The higher core count and increased cache size really let our high-volume market makers quote in volatile markets with confidence.”

**Higher Performance for Volatile Markets**

The Intel® Xeon® processor E5-2697 v4 delivers up to 30 percent faster performance for the Tbricks* Market Making* application versus previous-generation processors, which helps to provide faster and more consistent trading performance in volatile markets.

Footnotes:

1. Based on a recent benchmark study, the Intel® Xeon® processor E5-2697 improves application performance for Tbricks* Market Making* by up to 30 percent.
2. These processors provide up to 22 cores, 44 threads, and 55 MB of last-level cache. They also support new DDR4 memory options that are up to 12.5 percent faster than previous-generation DDR4 memory.
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Scaling Performance through Collaborative Development

Microseconds matter in electronic trading, so Itiviti and Intel work closely together to optimize Itiviti software for the latest innovations in Intel® architecture. The performance engineering team uses the Intel® VTune™ Amplifier to identify the best opportunities for code optimization. They also benchmark results using the high-performance Intel SSD DC to provide the fast data throughput needed to sustain peak performance levels during high-volume trading.

To help deliver ongoing improvements in performance and value, Itiviti and Intel engineers are currently exploring the benefits of:

- **Intel® Advanced Vector Extensions 2.0 (Intel® AVX2)**, which doubles the number of integer operations per clock cycle versus first generation Intel AVX.
- **Data Plane Development Kit (DPDK)**, a set of open-source libraries and drivers that enable high-speed packet processing on standards-based server platforms. Initially developed by Intel, DPDK lays the groundwork for agile, high-performance networking solutions. In combination with Itiviti’s flexible connectivity options, it will enable new levels of agility for global traders.

Quote with Confidence

Itiviti software and the Intel Xeon processor E5-2697 v4 can help you achieve new levels of performance, functionality, and agility for your trading platform, helping you gain a sustainable competitive edge in global capital markets.

Learn More

- **Itiviti**: [www.itiviti.com/](http://www.itiviti.com/)


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1 Performance for the Tbricks Market Making* application was measured by Intel as of January 21, 2016. The workload consisted of a controlled simulation of a highly volatile market prices move for 10 index option products. Baseline configuration: Wellsburg server platform with 2 x Intel® Xeon® processor E5-2697 v3 (2.3 GHz, 18 cores), 128 GB DDR4/2133 memory (regular DIMM), Intel® Solid-State Drive Data Center (Intel® SSD DC) 53700 800 GB SATA 6 drive, 1 Gb network, Tbricks 2.7, Oracle Linux* 6.7. New configuration: Wellsburg server platform with 2 x Intel® Xeon® processor E5-2697 v4 (2.2 GHz, 22 cores), 128 GB DDR4/2133 memory (regular DIMM), Intel® SSD DC 53700 800 GB SATA 6 drive, 1 Gb network, Tbricks 2.7, Oracle Linux 6.7.

2 The Intel® Xeon® processor E5-2600 v4 product family supports memory speeds up to 2400 MT/s versus maximum memory speeds of 2133 MT/s for the Intel® Xeon® processor E5-2600 v3 product family.

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