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Meeting Stock Market Needs for Speed, Reliability, and Security

Kingdom Stock Transaction System delivers rock-solid support for stock transactions with its high-performance, reliable, secure solution on the Intel® Xeon® processor E7 family.

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Xeon®
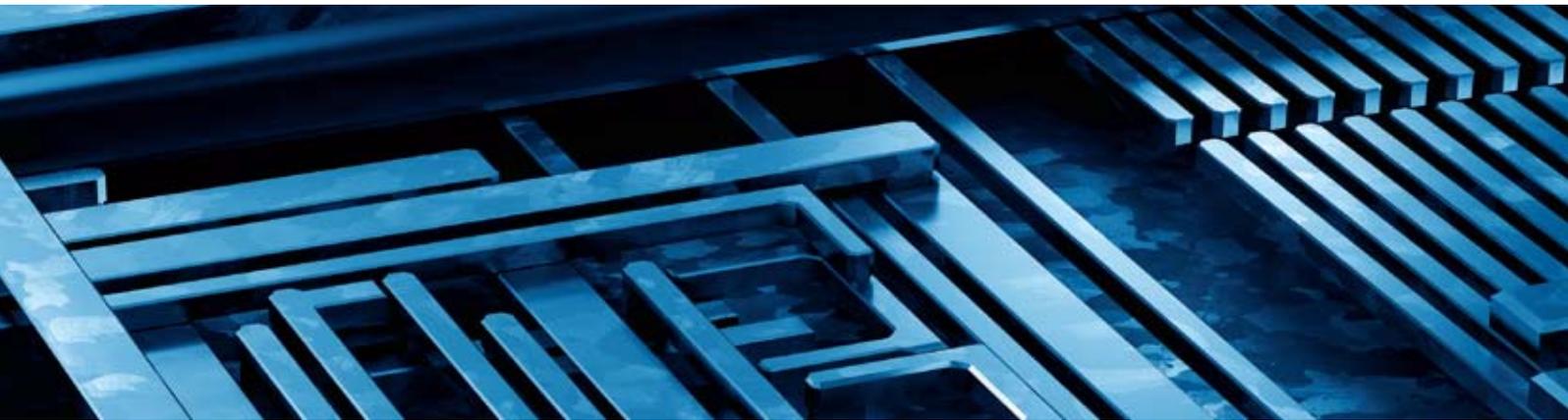
Solution provided by:

金证股份

Customers and regulators place high demands and scrutiny on the systems that support stock transactions. Kingdom Stock Transaction System targets servers based on the Intel® Xeon® processor E7 family because they are very dependable and secure. They can also stand up to more general requirements for large-scale systems to deliver exemplary scalable performance while protecting budgets.

CHALLENGE:
Enable a stock market solution that inspires confidence among customers and regulators for its reliability, availability, and serviceability (RAS) capabilities as well as for system security. Deliver scalable performance that takes advantage of system resources and can scale to support very large implementations.

SOLUTION:
The Intel Xeon processor E7 family helps Kingdom Stock Transaction System meet performance and energy-efficiency demands and the requirements of the highly regulated securities trading environment. Intel® Advanced Encryption Standard New Instructions (Intel® AES-NI) accelerates encryption operations, enhancing security without compromising performance.

CUSTOMER BENEFIT:
Providing stock market customers with a solution that targets standards-based platforms helps them meet business needs under strict budget requirements. In addition to savings in terms of capital expense, the Intel Xeon processor E7 family's energy efficiency helps save on ongoing operational costs.

Making a Great Thing Better:
Optimization for the Intel® Xeon® Processor E7 Family

In the same way that they scrutinize the performance of the stock market, those closest to the inner workings of any stock exchange place very high demands on the performance of the hardware and software systems that support the market. The infrastructure must be rock solid, it must offer very high performance, and it must be cost efficient.

Kingdom Stock Transaction System targets the Intel Xeon processor E7 family to meet all those criteria, and in testing, it exhibits more than a 1.25x performance increase in transactions per second on the new platform, relative to the previous-generation processor.[1] The solution also benefits tremendously from the RAS features of the platform, as well as exhibiting exemplary cost effectiveness, satisfying the budgetary needs that stock markets share with all other organizations.

As part of its effort to make sure those criteria continue to be met, Kingdom Stock Transaction System takes advantage of the very substantial resources the Intel Xeon processor E7 family offers:

- **Relationships with Intel experts.** The company works with application engineers from Intel, giving it access to the people who know the platform best, from the processor out. Intel's technical and business disclosures help to inform the day-to-day decisions that Kingdom Stock Transaction System engineers make.

- **Intel® Performance Primitives (Intel® IPP).** Using these functions that are highly tuned for the hardware provides an excellent shortcut for Kingdom Stock Transaction System that also helps ensure high performance. In addition, Intel maintains these functions, which helps streamline optimization for future platforms.

- **Energy Efficiency.** Drawing on the platform's features to reduce energy consumption gives Kingdom Stock Transaction System the ability to deliver very favorable results in terms of operating costs.

Kingdom Stock Transaction System and the Intel Xeon processor E7 family work together to keep stock markets running smoothly, providing excellent results.

Learn more about Kingdom Stock Transaction System:
www.szkingdom.com

Learn more about the Intel® Xeon® processor E7 family:
www.intel.com/xeon