



Kx shatters STAC benchmarks for tick data analytics on Dell EMC DSSD D5

1 November 2016, London & Palo Alto: [Kx Systems](#) (Kx) announced today that its time-series database kdb+ set new records in independent testing on the largest dataset ever used. Running on Dell EMC DSSD D5 Rack-Scale flash storage system with Dell EMC PowerEdge servers, Kx and Dell EMC achieved the fastest results to date in 16 of the 19 benchmarks reported within the volume-scaled multi-year M3 benchmark suite as performed and audited by [STAC](#) (The Securities Technology Analysis Center). The STAC M3 test suite is designed to test the suitability and scalability of technology stacks for managing financial time-series data.

With this benchmark, Kx set new performance records that were several times faster than most of the previous test results. Kdb+'s unique integrated architecture ensured that complex analytics performed during the benchmark on the 48 terabyte dataset could seamlessly draw on data both in-memory and on disk, as needed.

Peter Lankford, Director of STAC, said: "Trading firms in the STAC Benchmark Council designed the STAC-M3 suite to represent a range of performance challenges that are common in financial time-series analysis. As data volumes grow and as the query demands from quants, machines, and regulators increase, it is more important than ever for tick database solutions to perform well at scale. Kx's kdb+, running on Dell EMC DSSD D5 and PowerEdge servers, has established performance records while testing on the largest STAC-M3 data scale so far."

Glenn Wright, Systems Architect at Kx said: "The results are a clear demonstration of the unparalleled speed of Kx when combined with advanced processing power. Clients choose Kx because of its ability to quickly analyze streaming, real-time and historical data. This benchmark further shows Kx's ability to make the most of the latest equipment available."

Kx has a large and firmly-established user base in financial markets, with nine of the 10 largest global banks as clients. Financial institutions, along with Kx's growing numbers of clients in other industries, are using high-performance databases and applications built on kdb+ for rapid processing and analytics of large and growing data sets. Industries like telecommunications and areas such as sensor data analytics, network usage monitoring and energy trading, all greatly benefit from the record-breaking performance provided by running more complex analytics, on more data, faster, with a larger number of concurrent users.

Mark Sykes, Chief Operating Officer of Kx Systems, said: "We are really pleased with the results of this benchmark which demonstrate another avenue to further improve the performance of existing applications built on kdb+. Our financial services customers are always on the lookout for new architectures that combine low operational latencies and high data rates.

At the same time, our customers need to store a massive amount of persistent data without compromising on performance metrics.”

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Note for editors: The STAC M3 test suite is designed to test scalability with respect to dataset size and the number of concurrent users. STAC tested and validated the performance with the biggest dataset ever used for testing: 48TB vs. just over 30TB that was previously tested.

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About Kx

Kx is the world leader in high-performance, in-memory computing, streaming analytics and operational intelligence. For more than 20 years the world's largest banks, brokers and regulators have been relying on Kx technology to address the challenges posed by exploding volumes of data, regulatory requirements and the need for ever-faster processing.

With more than 100 major global corporations as clients, Kx works closely with its user group to drive and prioritize its research and development so that it delivers the most innovative software, tools, solutions and services to solve its customers' business needs. As the Internet of Things creates never before seen volumes of structured machine data, new industries are embracing Kx technology's proven ability to store and analyze data in real-time.

In the pharmaceutical and life sciences sectors, Kx is helping organizations realize the value that can be derived from their datasets in all areas of their business from research and development to production, sales, and increasingly regulatory reporting.

Kx is a division of First Derivatives plc. (FD). FD is quoted on the London Stock Exchange (FDP:LN) and is a global supplier of software and consulting services. FD has had double-digit revenue growth every year since it was incorporated in 1996.

For more information about Kx please visit www.kx.com. For general inquiries, write to info@kx.com.

