

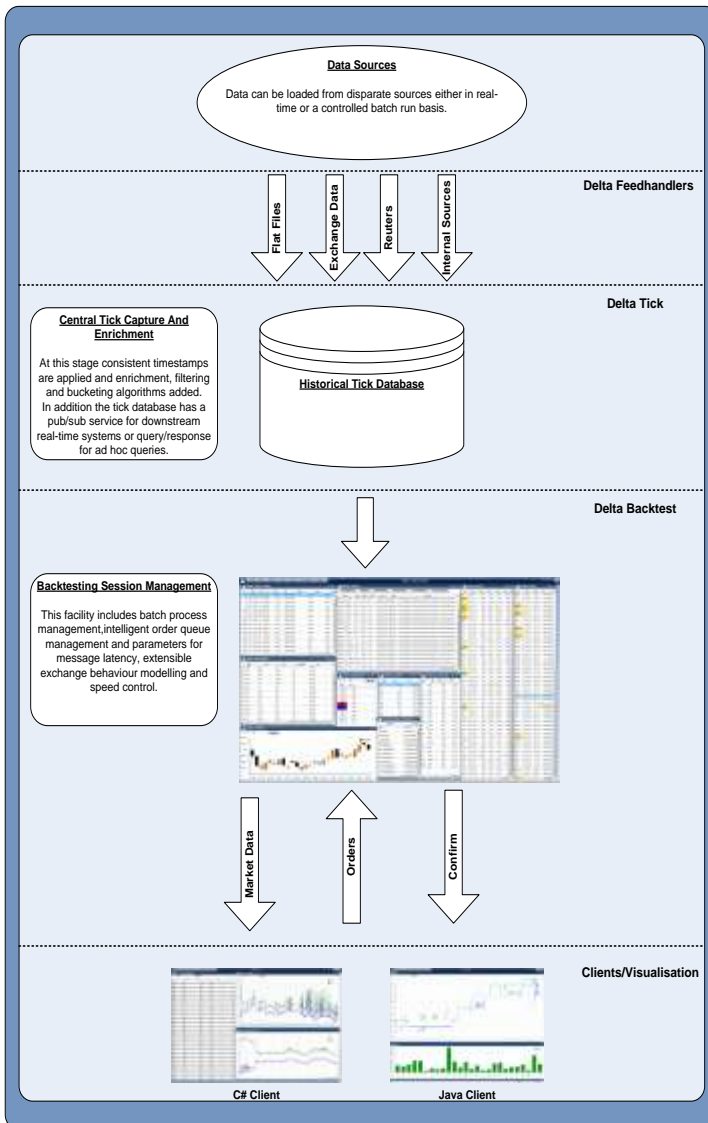
Delta Backtest is one of a number of modular products built by First Derivatives to harness the power of Kdb+. In conjunction with Delta Replay, Delta Backtest enables rapid, simplified strategy validation within a single coherent framework that dramatically cuts time to market for algorithmic trading strategies. Delta Backtest offers a straightforward programmatic interface, rich visual reporting and huge scalability to deliver results - fast.

Delta Backtest – a unique strategy development tool

- Data can be loaded from disparate sources in either real-time or on a controlled batch run basis
- Data storage optimised for high volume, high frequency and unevenly spaced tick data
- In-memory storage delivers unrivalled performance
- Easy to use SQL variant specifically designed to facilitate complex statistical analysis of time series data, in real-time
- Open interfaces allow external interfaces with analytics written in (for example) C++ or MATLAB to be used
- Flexible query mechanisms; simple to set up and use
- Excel interface and easily configurable rich GUI's to visualise data and results
- Capture, cleanse and enrich data from multiple sources
- Provide derived and aggregated data during the capture and distribution process
- Slow down or speed up data delivery speed to facilitate strategy testing
- Exchange simulation functionality maintains a virtual order queue to determine likelihood of fills and better represent real world behaviour
- Exchange simulator logic can be extended and modified for different venues with different priority rules
- Comprehensive results via Results Analysis Module (RAM)
- Archive results for future analysis

Delta Backtest – built on proven technologies

- Proven technology meets the most demanding back-testing requirements from both a functional and technical perspective
- Reliable, long-term storage of high volumes of data
- Copes with large numbers of concurrent complex queries while simultaneously capturing hundreds of thousands of ticks per second
- Open, scalable and adaptable – data integration and interoperability are easy in practice, with numerous data source feedhandlers available
- Scalability is constrained only by the hardware
- Available – accommodates various high-availability configurations
- Platform and hardware agnostic – not tied to one operating system or storage solution
- Virtually unlimited scalability and programming productivity lowers total cost of ownership



Delta Backtest allows our customers to capitalize on the extensive experience First Derivatives has in harnessing the power of Kdb+ to build bespoke, mission critical applications for algorithmic trading. First Derivatives domain and technical expertise lowers project risk, ensuring we build systems that match our customers' requirements and exceed their expectations.

For further information on this and the Delta range of products please contact: deltaproducts@firstderivatives.com