S T A C
BENCHMARK COUNCIL

STAC-M3™:
The industry standard benchmark suite
for tick database stacks

Analyzing time-series data such as tick-by-tick quotes and trades is crucial to many trading functions, from algorithm development to risk management. For over a decade, capital markets firms have relied on the STAC-M3 Benchmark suites to provide insight into the extent to which emerging technologies improve the performance of tick analytics.

STAC-M3 is driven by trading firms in the STAC Benchmark™ Council, with the participation of relevant software, hardware, and cloud providers. STAC-M3 assesses the ability of a solution stack such as database software, servers, and storage, to perform a variety of I/O-intensive and compute-intensive operations on live and historical market data.

The specifications are completely agnostic to architecture, which means that STAC-M3 can be used to compare different products or versions at any layer of the stack, such as database software, processors, memory, hard disks, SSD, interconnects, file systems, and as-a-service offerings.

STAC-M3 consists of different suites that vary the amount of historical and realtime data, the number of simulated users, and whether there are constraints on the use of memory.

Dozens of STAC Reports™ have been published using STAC-M3, either publicly or in the members-only STAC Vault™. In addition, numerous user firms and vendors use STAC-M3 to "mark their performance to market" in the privacy of their own labs.

To get acquainted with STAC-M3, read one of the many public reports at www.STACresearch.com/m3. For more information, please contact council@STACresearch.com.

Get the most from STAC-M3

Any interested party can analyze public STAC Reports to compare the performance of different systems. However, members of the STAC Benchmark Council are able to put these reports to much greater use. Qualified members may:

➢ Read the detailed test specifications

➢ Access additional reports in the confidential STAC Vault

➢ Obtain the materials to run the STAC-M3 Benchmarks on their own systems

➢ Discuss benchmarks, technologies, and related business issues with their peers.