

An Emulator for Arrowhead

ANS Solves

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1. A High-performance Simulator for Arrowhead:

Business Line: Equities
Product: ArrowS (TSE Simulator)
Release: November 2013



ANS Solves has released a high-performance emulator for Tokyo Stock Exchange's (TSE) Arrowhead matching engine for Equities. This has been developed specially for **testing low-latency, high-throughput and high-volume equity** trading applications that connect to TSE.

Highlights:

- **1. Fast response:** Acknowledgements are returned in less than 200 micro seconds.
- **2. High throughput:** Has been tested to process around 5,000 new orders per second and around 15,000 messages per second on a medium configuration linux machine (Xeon 5580).
- **3. Race conditions:** Provides various delay setups to simulate different race conditions (e.g., whereby executions come back after cancel-confirms etc.)
- **4. Admin Console:** TCP/IP based admin console to manage the simulator and invoke admin commands.
- **5. Zaraba Trading:** Supports continuous trading.
- **6. Order Book:** Book is price bound and does validations of ticks and prices. Can handle both regular and market orders.
- **7. Small foot print:** Uses around 4~5GB of ram for around 40M messages.

For more details contact: www.ans-solves.co.jp