



## Supercharge your real-time messaging backbone with Zing

Zing is the new real-time standard for Java-powered DMA and market data applications

### Java-based Real-time Messaging

Direct Market Access (DMA) and market data applications are the real-time lifeblood that power trading in today's ultra-fast, ultra-competitive electronic markets. For market center connectivity, firms rely on the Financial Information eXchange (FIX) protocol as well as proprietary trading system protocols for ultra-low latency order entry and execution across asset classes such as equities, derivatives and FX. Additionally, firms rely on processing massive volumes of real-time quote and trade data via multicast protocols to identify opportunities that may only exist for microseconds. In order to survive and thrive in these deep and highly-liquid markets, firms require a messaging backbone capable of delivering ultra-low latency, predictability and reliability.

Conventional one-size-fits-all JVMs are unable to meet strict performance requirements in spite of costly and time-consuming attempts at tuning. As a result, the wrong JVM choice can adversely impact a firm's ability to compete and survive.

Zing is a no-pause ultra-low latency JVM from Azul Systems that establishes a new performance standard unmatched in the industry and meets or exceeds requirements for high-speed messaging. Zing is Java SE compliant, a full-featured JVM that requires no code re-compilation or special configuration. Tuning is reduced to a single parameter, freeing product development to focus on serving the needs of the business rather than on costly and frequent JVM tuning cycles that fall short of requirements.



### BENEFITS OF ZING FOR REAL-TIME MESSAGING

- **Provide certainty of delivery and performance** Eliminate application pauses and latency spikes
- **Ultra-low latency** Increase throughput at far lower average latencies
- **Improve time to market** Eliminate the need for most application tuning
- **Plug-and-play** Java SE compliant, requiring no code re-compilation or special configuration



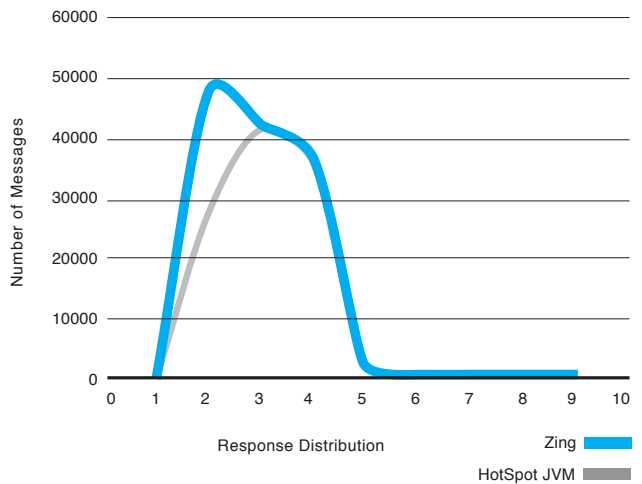
## Solution: Azul Zing

Zing is the best solution for real-time messaging such as FIX. Azul's advanced technology delivers on high performance with a no-pause ultra-low latency JVM that is unmatched in the industry.

### Zing Dramatically Lowers Average Latency and Removes Outliers

Trading firms with strict ultra-low latency requirements choose Zing to eliminate tail risk associated with the unpredictable behavior of conventional JVMs that adversely impacts profitability. Zing is the new Java performance standard that delivers on the most exacting requirements and on the bottom line.

Throughput Improvement FX Trading Via FIX



Zing lowers max latency by 78% and average latency 3.5% for this FX Trading Application while also delivering more messages at the lowest response band.

Contact an Azul Java Performance specialist today:

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