NOVASPARKS™

Pure FPGA Market Data Solutions

US Equities in a Box and NovaLink

STAC - Fall Summits 2017

Chicago, New York, London

NOVASPARKS

Single 2U Appliance

Pure FPGA

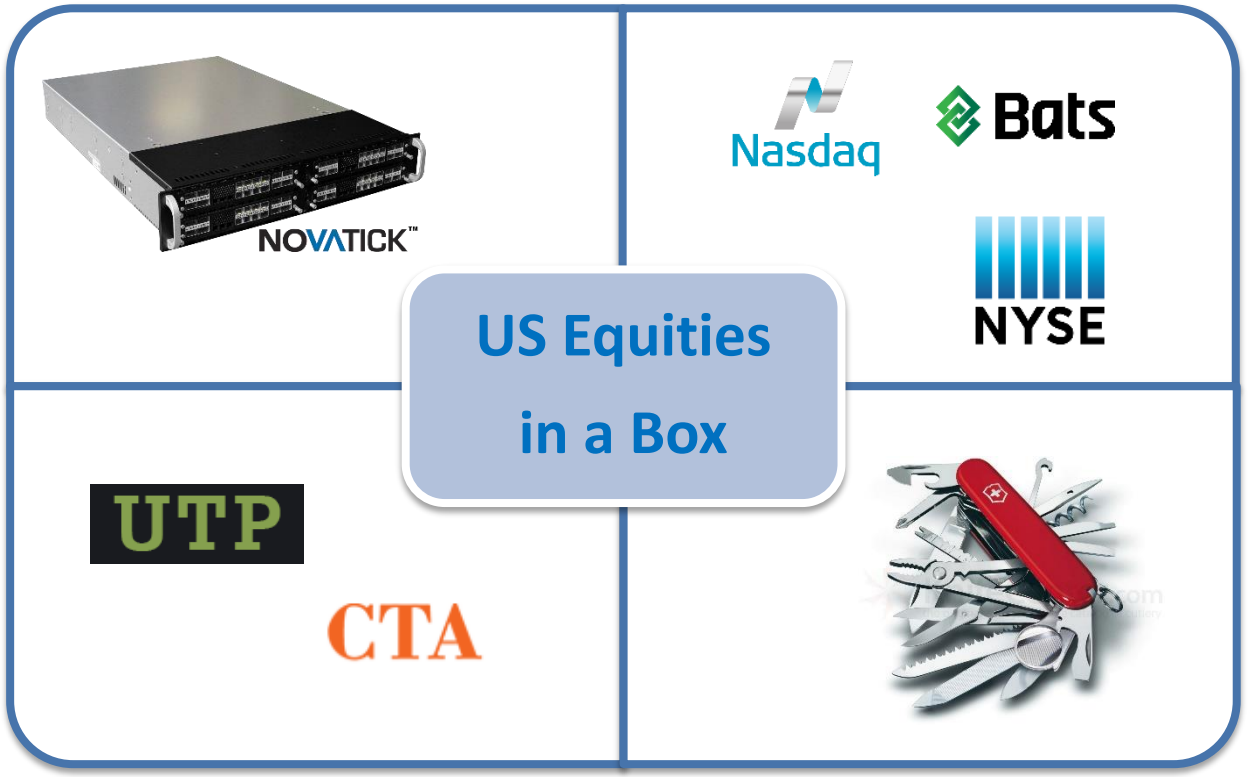
Processing

Top 3 exchange groups

10 markets

Entire symbol universe

(90,000)



SIP Feeds

Regulatory updates

Backup

IEX/CHX

Rich feature set

Recovery/retransmission

Snapshot

Depth publication

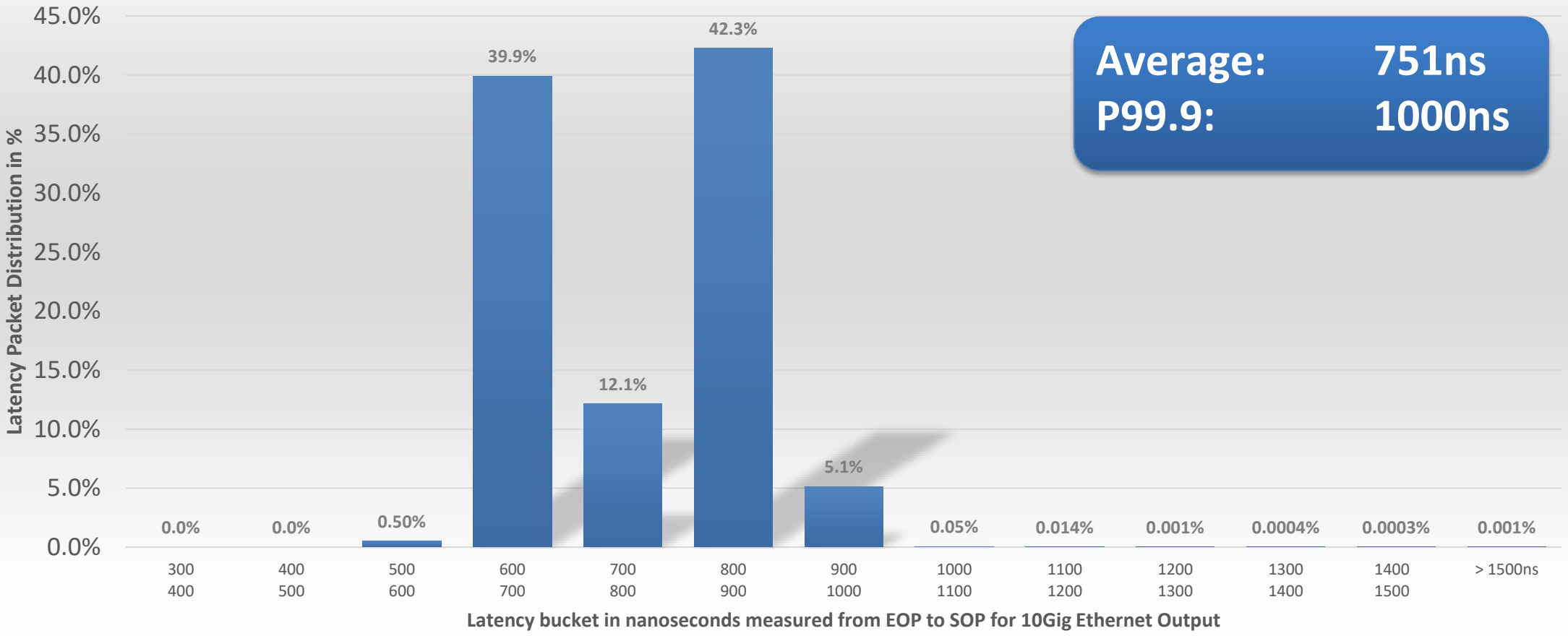
Filtering

NOVASPARKS

US Equities in a Box (single 2U NovaTick Appliance)

Entire symbol universe for

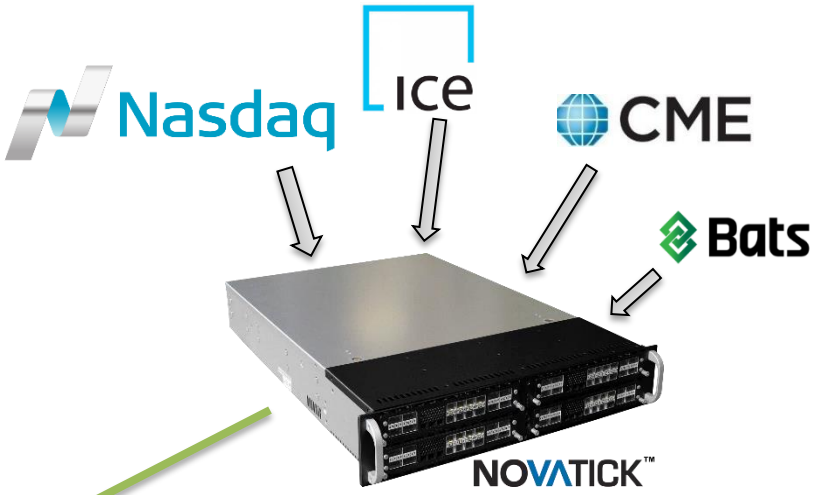
Nasdaq, BX, PSX, BZX, BYX, EDGX, EDGA, NYSE, ARCA, NYSE American



Average: 751ns
P99.9: 1000ns

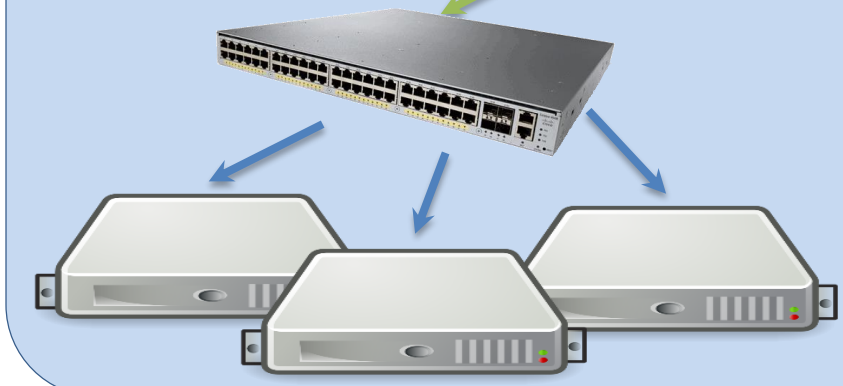
Not STAC Benchmarks

NOVATICK's Outputs

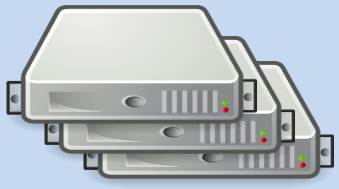


CPU Consumers

Multicast over 10Gig Ethernet



Direct Memory Access (DMA) over PCIe



FPGA Consumers

FPGA-to-FPGA connection over NOVALINK with Hardware API

Why NovaLink?

- **Enable the porting of complex strategies to full FPGA**
  Don’t be limited by one-chip anymore. Develop pure FPGA strategies that consume data from **several markets and tens of thousands of instruments** at the same time.

- **Reduce time to market**
  Access NovaSparks catalog of **50 feeds** through a **normalized** interface. Simplify your design and recompile faster.

- **Contain development risk and cost**
  Focus FPGA development resources on the strategy and not on the **development and maintenance** of all the feed-handlers.

- **Increase robustness with fully featured feed-handler**
  Exchange **Refresh** and **Retransmission** services, advanced A/B arbitration, snapshot…

THANK YOU…

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