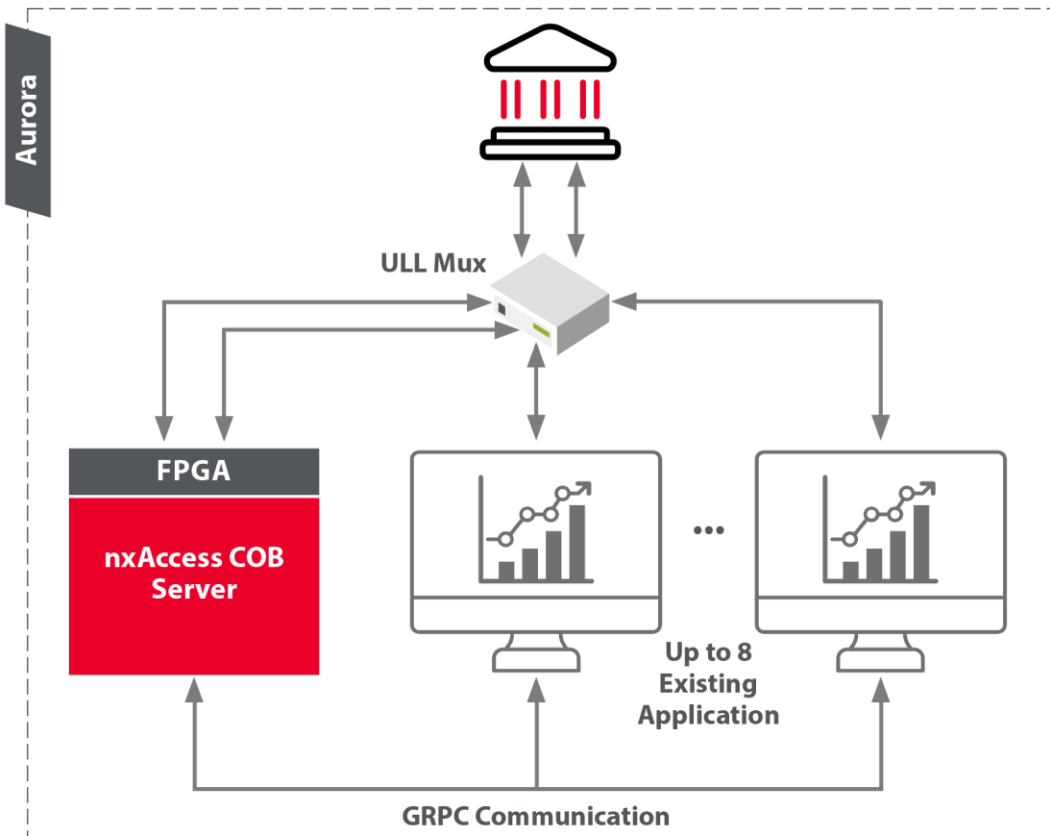




Fast Cancel For All: How to leverage CME's new feature with nxAccess

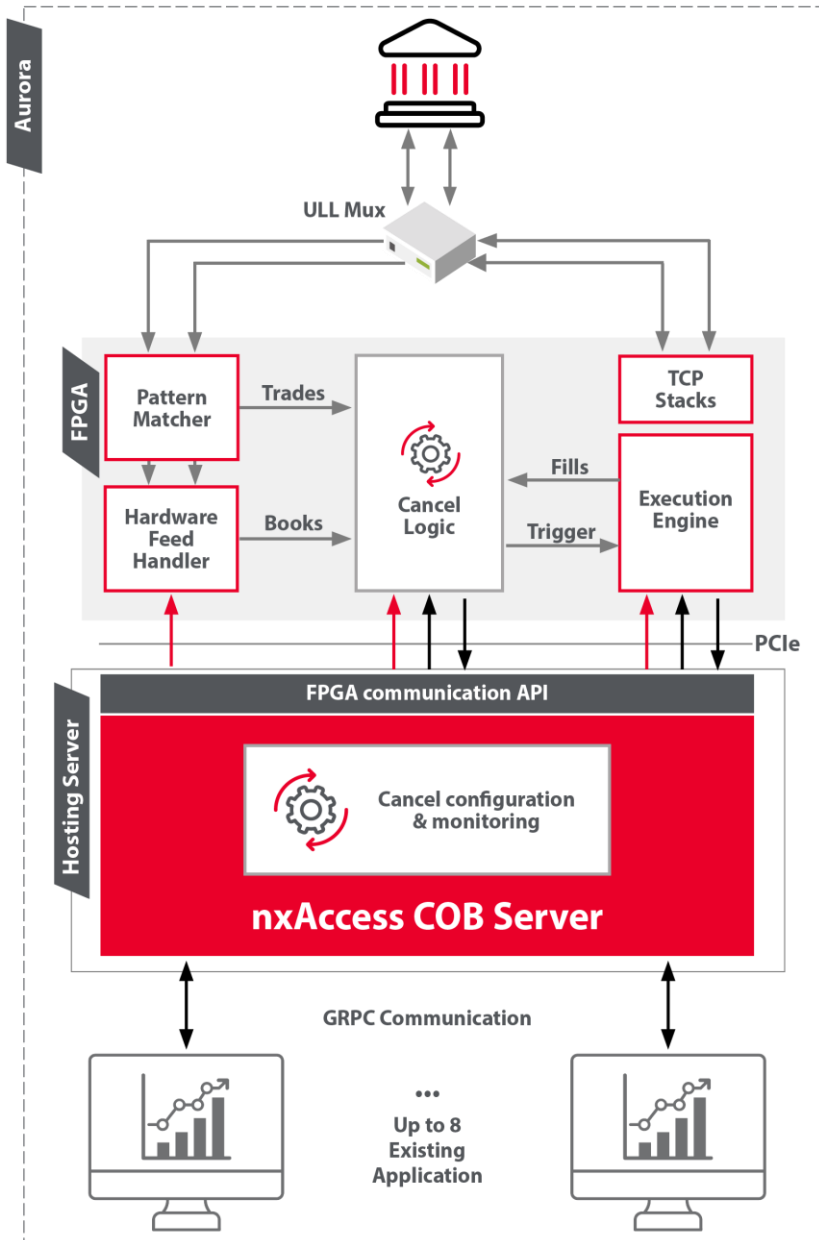
STAC – Spring 2023 - Chicago

nxAccess Fast Cancel Server – Your FPGA trading companion



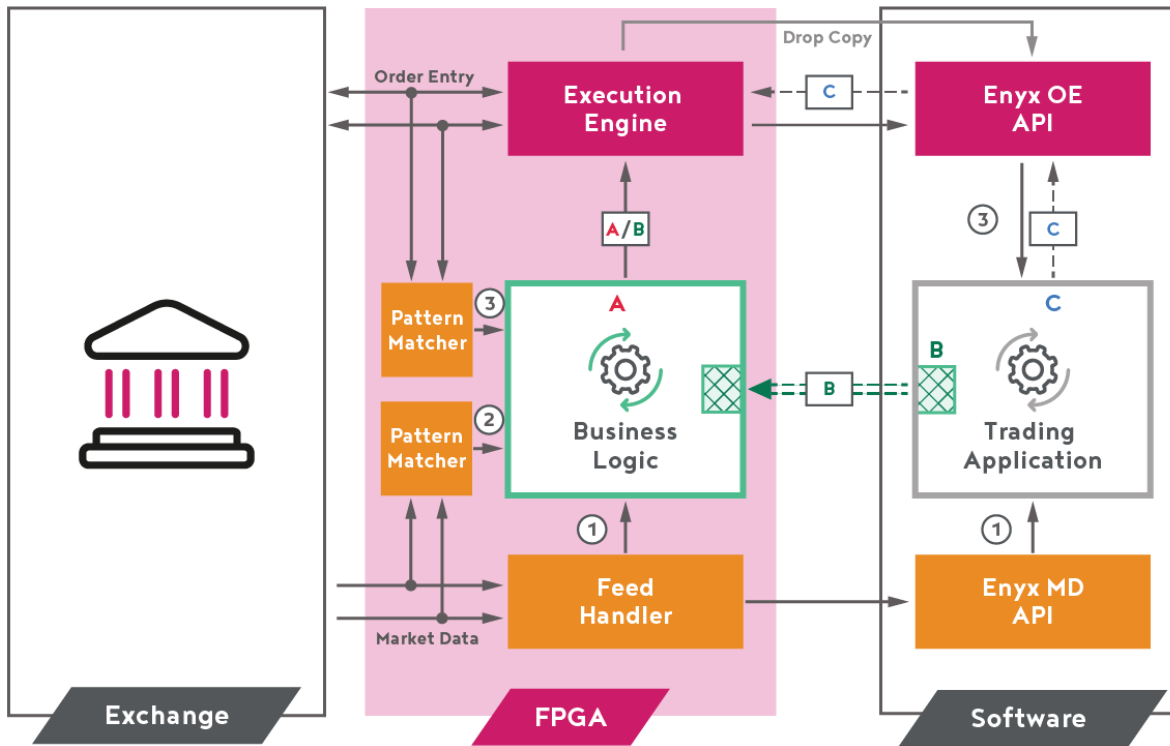
- › Standalone deployment with minimal integration:
 - › Simple GRPC API for configuration & notification
 - OR
 - › Full standalone deployment with configuration file
- › Three different cancel algorithm:
 - › Price evolution over time
 - › Quantity Delta over time
 - › Total trades over time
- › Can handle 8 COB sessions, cancelling on behalf of 8 trading applications

nxAccess Fast Cancel Server – Your FPGA trading companion



- Off-the-shelf firmware & application
- Can run in an existing or dedicated server
- Optional customization for:
 - Additional cancel algorithm
 - Aggressing logic
 - Other trading venues

A versatile tick-to-trade solution



Feature complete

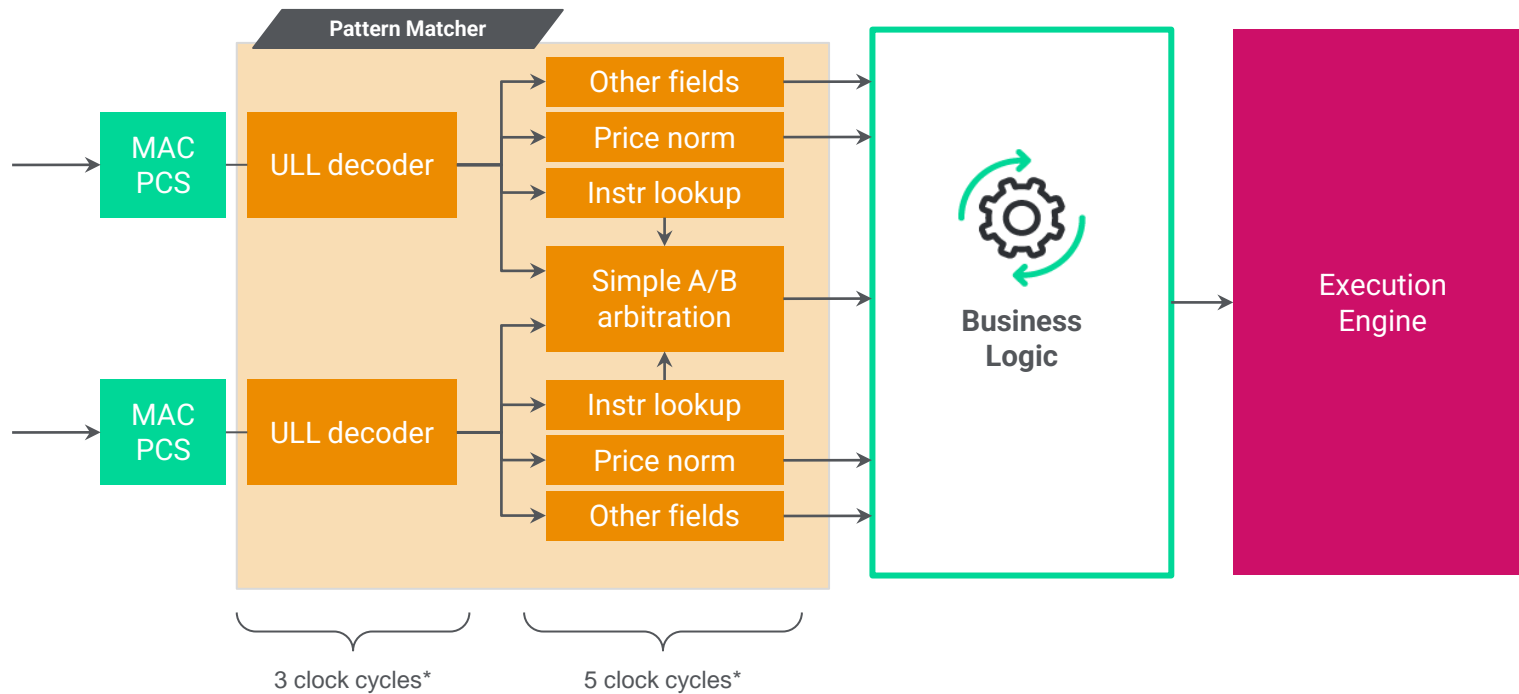
- Full FPGA book building with exchange resynchronization
- Customizable pattern matchers to extract data from raw protocols
- Full FPGA TCP management
- Embedded kill switch
- Parallel hardware & software datapaths

Use cases

- Fast cancel
- Market making
- Quantitative trading



Best performance without the pain

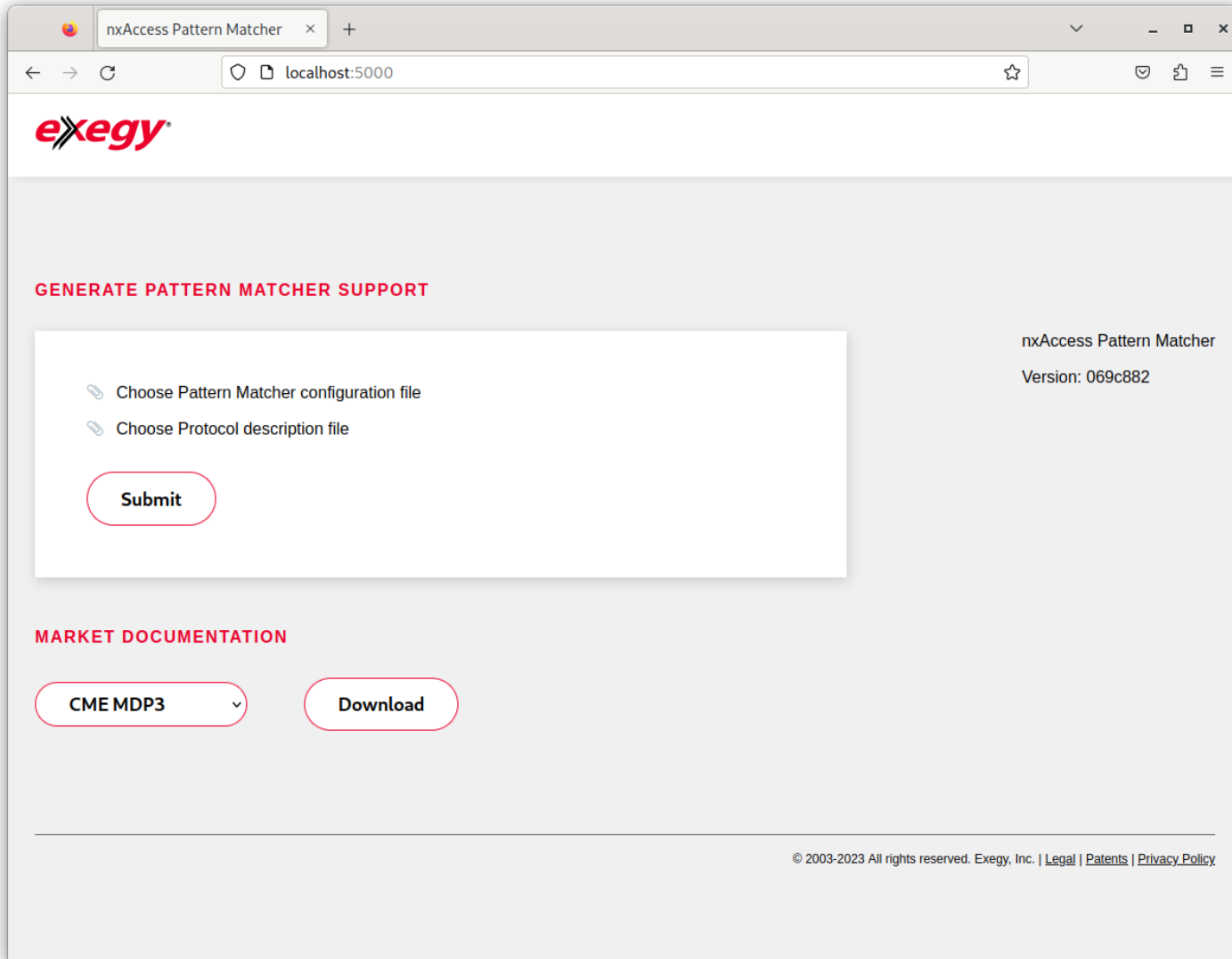


- Only process/outputs required fields/messages
- Tag/Value output
- Optional data processing:
 - Price normalization
 - Instrument lookup
 - Type conversion
 - A/B arbitration

*NOT A STAC BENCHMARK



Customizable Pattern Matcher

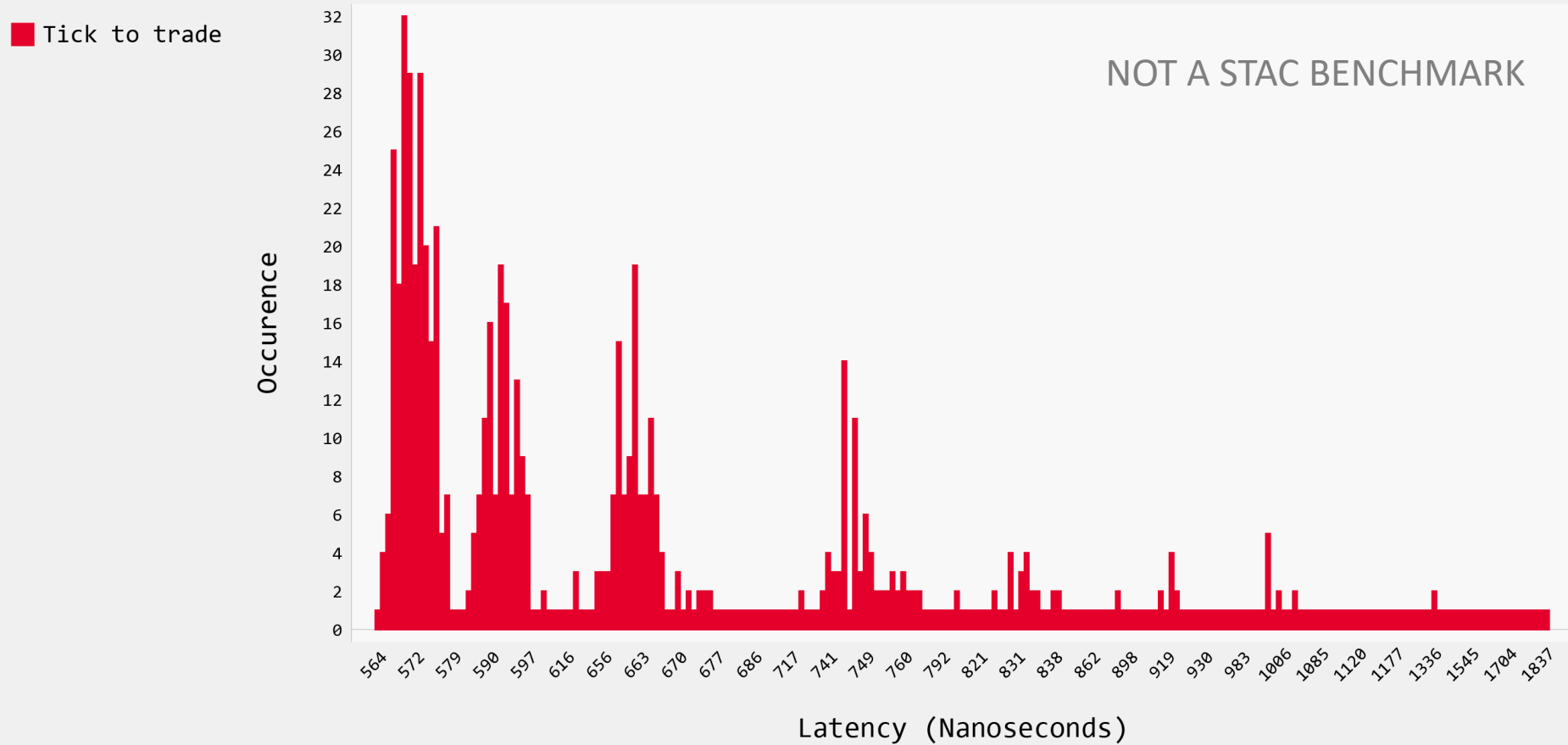


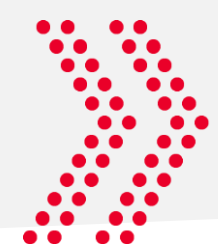
- SAAS solution to generate custom HDL code for your use case
- Upload simple configuration files to specify which fields and which messages the pattern matcher should process
- Enable/disable data processing features
- Configurable tag/value to allow for some level of normalization across venues



Hardware Latency – Feed Handler

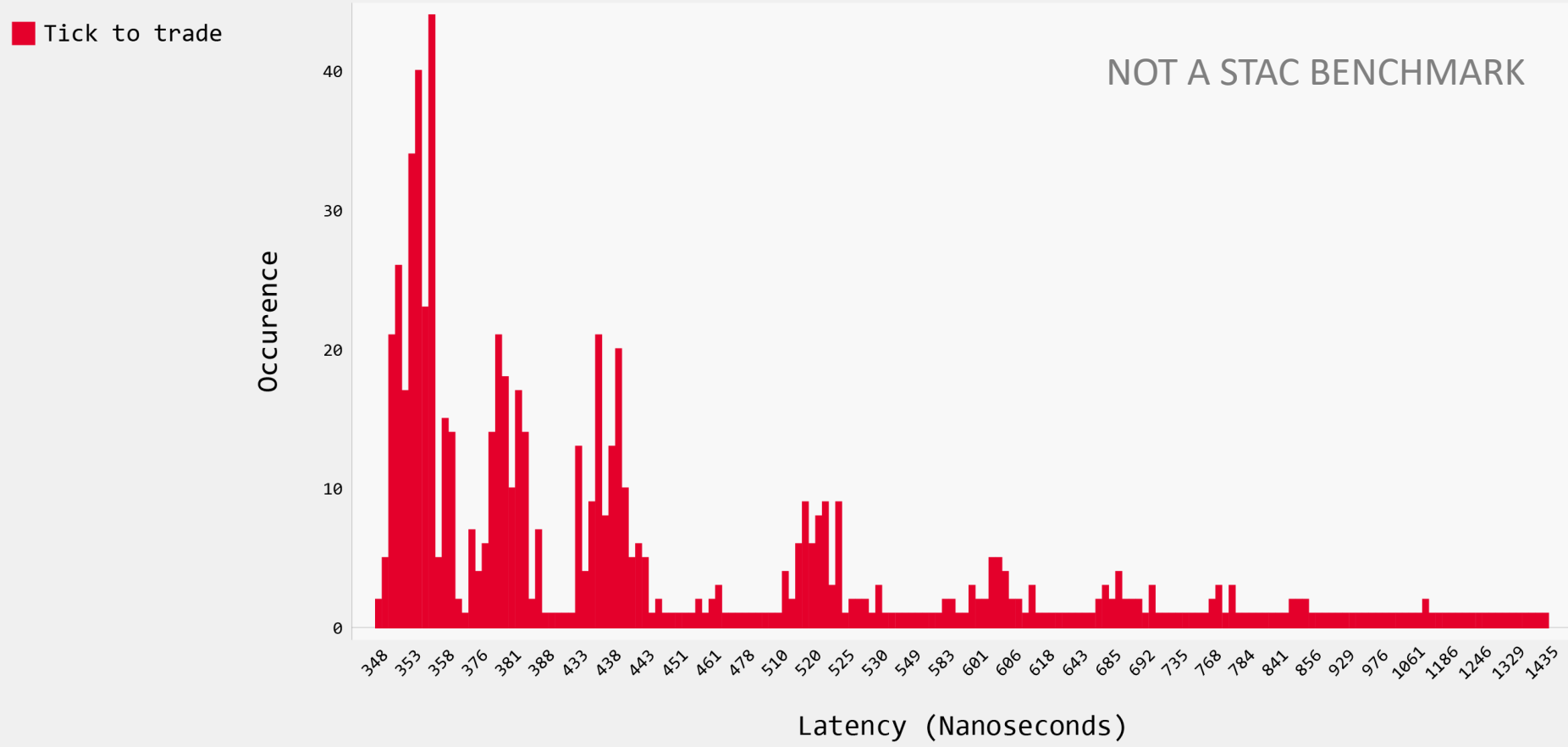
nxAccess CME - Feed Handler - Standard Collection - Wire to wire
Latency Distribution





Hardware Latency – Pattern Matcher

nxAccess CME - Pattern Matcher - Standard Collection - Wire to wire
Latency Distribution





Global Coverage

Equities

Futures

Options

Fixed Income

Cboe BYX
Cboe BZX
Cboe EDGA
Cboe EDGX
Cboe BZX Options
Cboe EDGX Options
Cboe C1
Cboe C2
Cboe Futures (CFE)
CBOT
CME
COMEX
NYMEX
All Other Channels
BrokerTec
NYSE
NYSE American
NYSE Arca
NYSE National
ICE Futures US
Nasdaq Stock Market
Nasdaq BX
Nasdaq PSX
Nasdaq Fixed Income
All US Options Venues
Montréal Exchange

Cboe Europe Equities - BXE
Cboe Europe Equities - CXE
Cboe Europe Equities - DXE
Eurex
Xetra
Euronext
Euronext Amsterdam
Euronext Brussels
Euronext Dublin
Euronext Lisbon
Euronext London
Euronext Paris
Alternext Paris
ICE UK LIFFE
LME
Borsa Italiana
EuroTLX
FTSE
London Stock Exchange
Trade Echo
Turquoise
SIX Swiss Exchange

HKEx Securities
HKEx Derivatives
Osaka Exchange (OSE)
KOSPI
KOSDAQ
NSE
TAIFEX



Straightforward onboarding

- Software simulation models for market data and order entry for development and **testing without the need for a FPGA card**
- Extensive documentation and reference designs
- Reference firmware allows for full solution testing without any hardware development

Thank you

Don't forget to tick the Exegy box for more information!

