



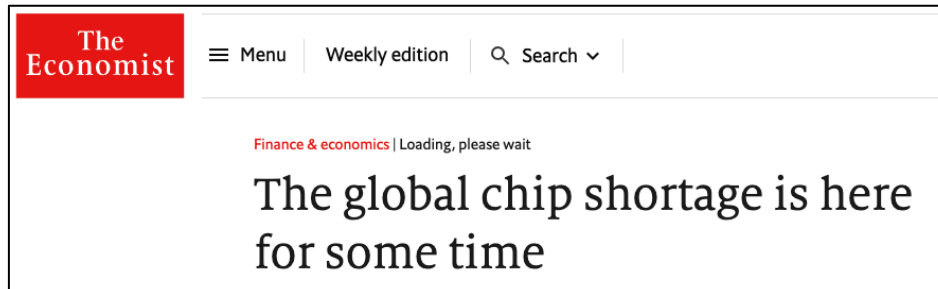
STAC Update: Fast Data

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Audits update

- Multiple SUTs were under development
- Supply chain disruptions impacted readiness timelines



The Economist

Menu Weekly edition Search

Finance & economics | Loading, please wait

The global chip shortage is here for some time

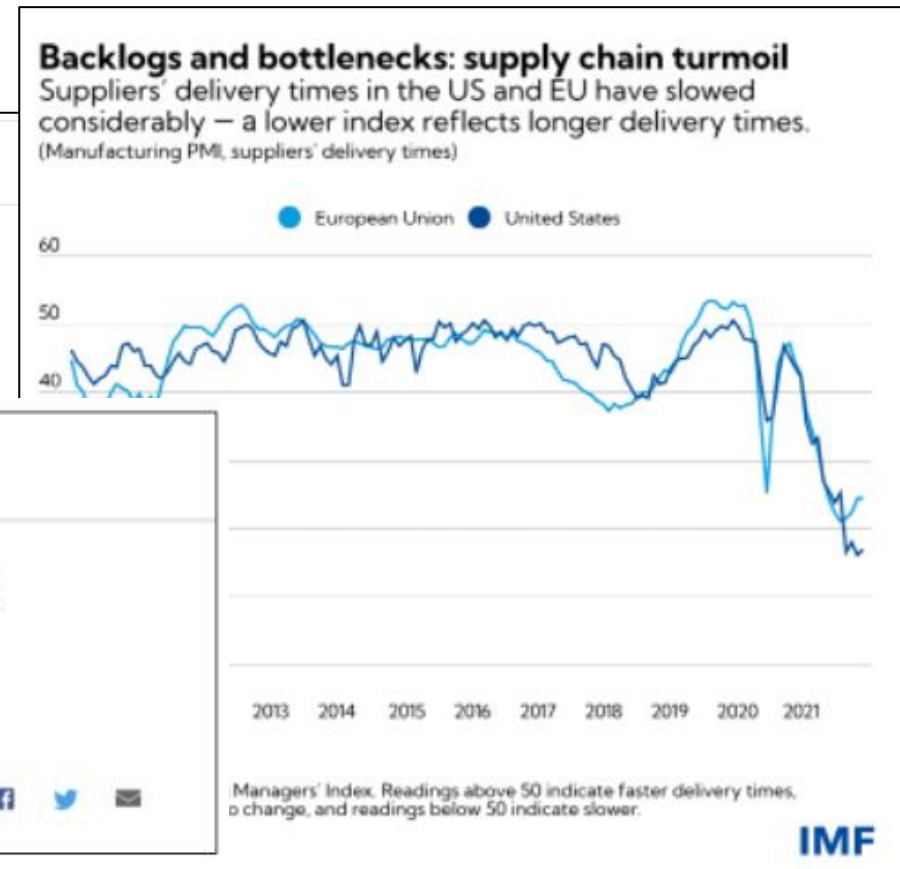


abc NEWS VIDEO LIVE SHOWS CORONAVIRUS

What's causing America's massive supply-chain disruptions?

Untangling supply chain woes could take much longer, experts say.

By Matthew Vann
October 15, 2021, 1:10 PM • 9 min read



FPGA SIG update

- Vendors and financial firms meeting
 - Exploring ways to collaborate on tool chain and development workflows
- Next meeting being scheduled for end of May / early June
- Not too late to join us

<http://www.STACresearch.com/fpga>

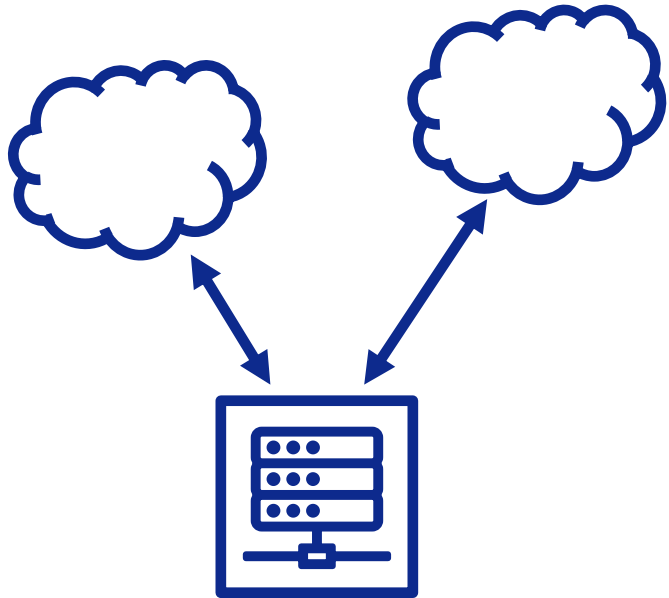
Adding STAC-ML Markets (Inference)

- STAC-ML Markets (Inference)
 - Benchmark solutions that may be used to run inference on realtime market data
 - Reports performance, resource, efficiency, and quality
 - Benefits derived from FPGA (latency vs throughput vs determinism)
 - Broad categories of use
- Premium subscribers have access to:
 - Benchmark specifications
 - Configuration Disclosures
 - Extensive, deeper visualizations of audited and un-audited report
 - Vault Reports
 - Research notes

www.STACresearch.com/ml

Cloud connectivity latencies

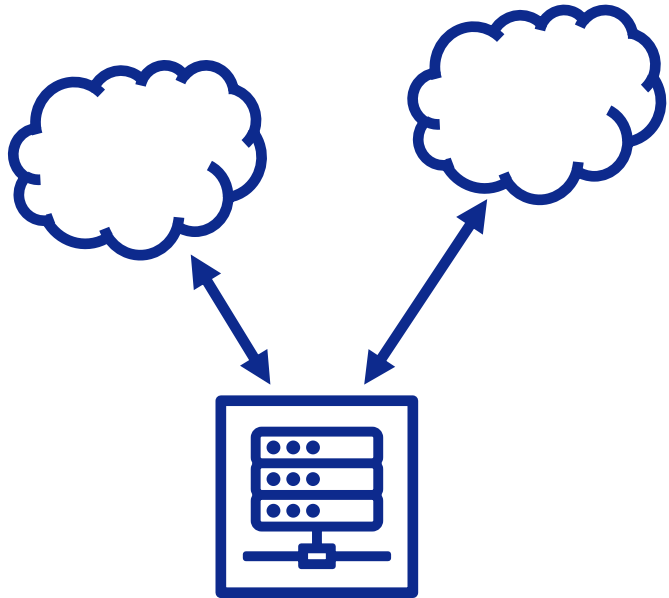
- Have had increasing interest in understanding:
 - Latency
 - Determinism



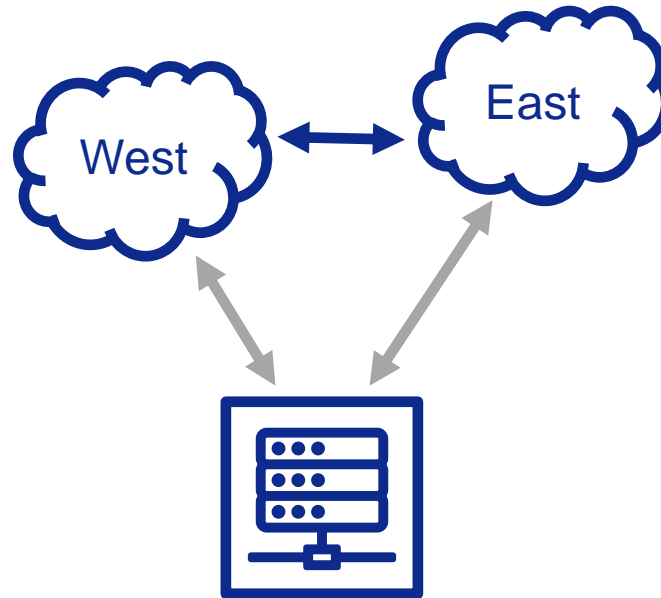
**On-prem
to Cloud**

Cloud connectivity latencies

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 - Latency
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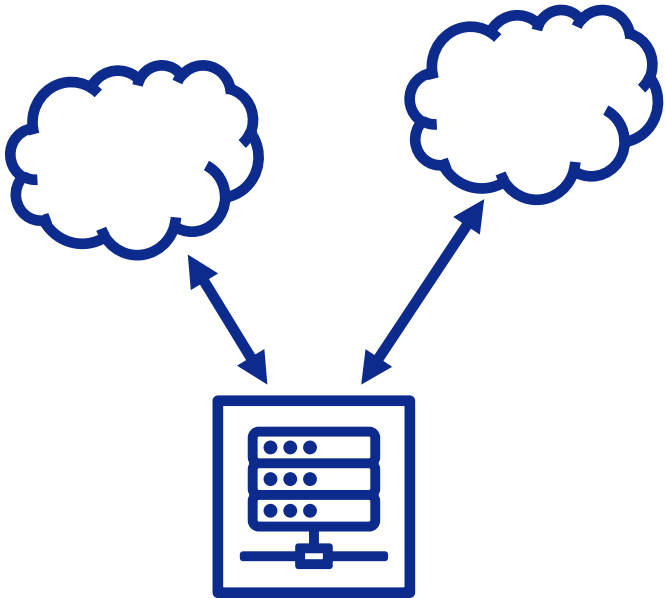
**On-prem
to Cloud**



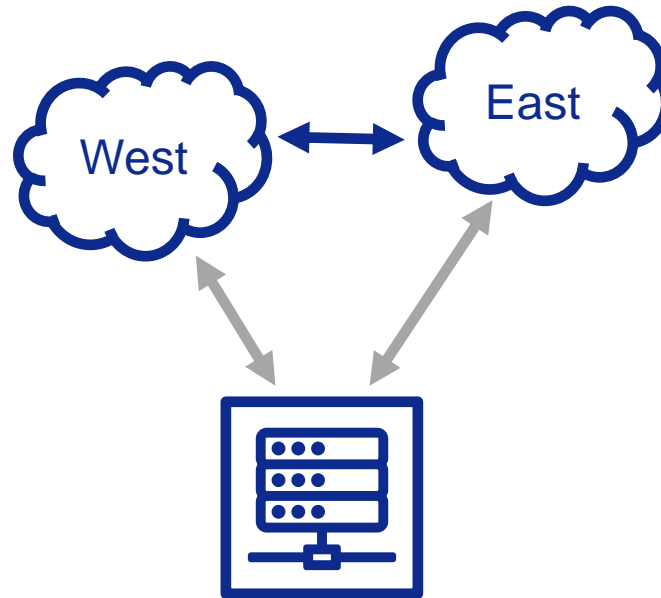
**Cloud Region
to Cloud Region**

Cloud connectivity latencies

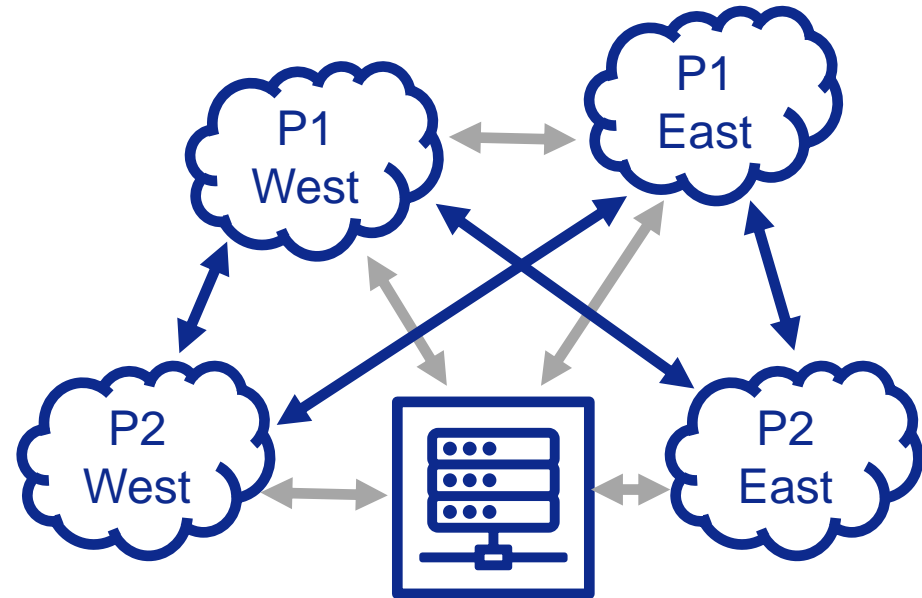
- Have had increasing interest in understanding:
 - Latency
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**On-prem
to Cloud**



**Cloud Region
to Cloud Region**



**Cloud Provider
to Cloud Provider**

Details: What are we measuring?

- User-space to user-space?
 - Full cloud network stack (including hypervisor)
 - But overkill on-prem
- What instance(s) in the cloud?
 - Multiple zones within a cloud region
 - Different times to different instances
- Time of day / week / month?
 - Different loads outside of test impact performance
 - When should tests occur? Multiple times?

Details: How are we measuring?

- Line capture?
 - Doesn't sufficiently exist in clouds
 - But we do have it on prem
- Time sync?
 - Need to sync multiple clouds and on-prem
- Round trip?
 - Would remove the time sync problem
 - But not enough insight into cloud infrastructure know know symmetry of paths

Help the definition of specifications

- If interested in helping define requirements:

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