Enabling Low Latency Market Data Applications with Storage Class Memory
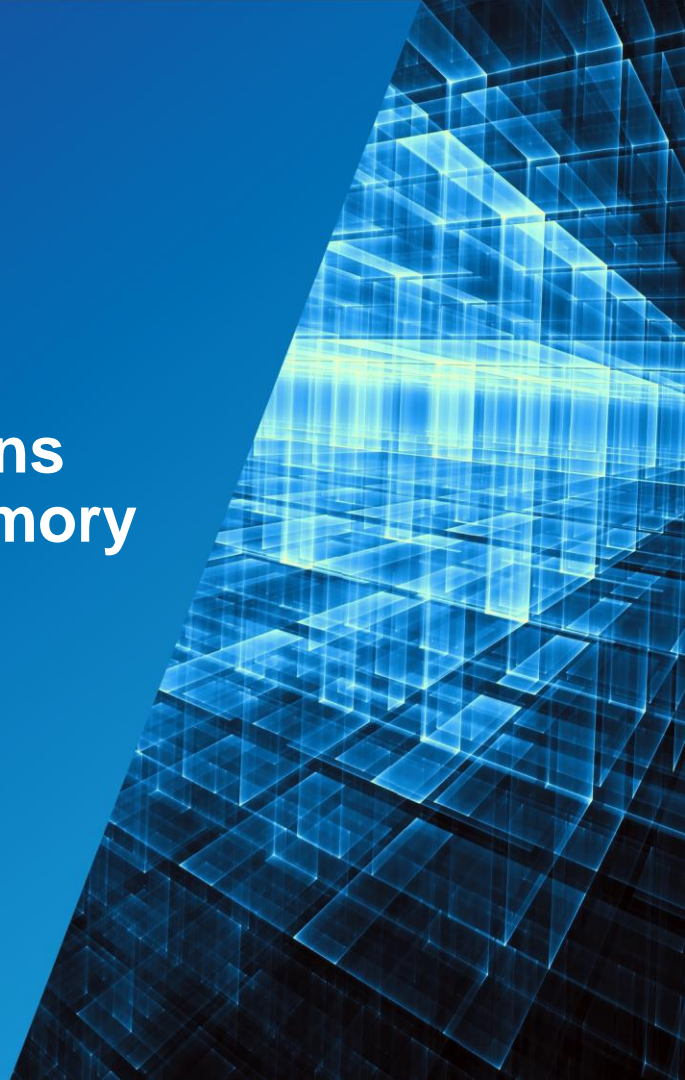
Charles Fan | Co-founder & CEO

Big Data and Fast Data

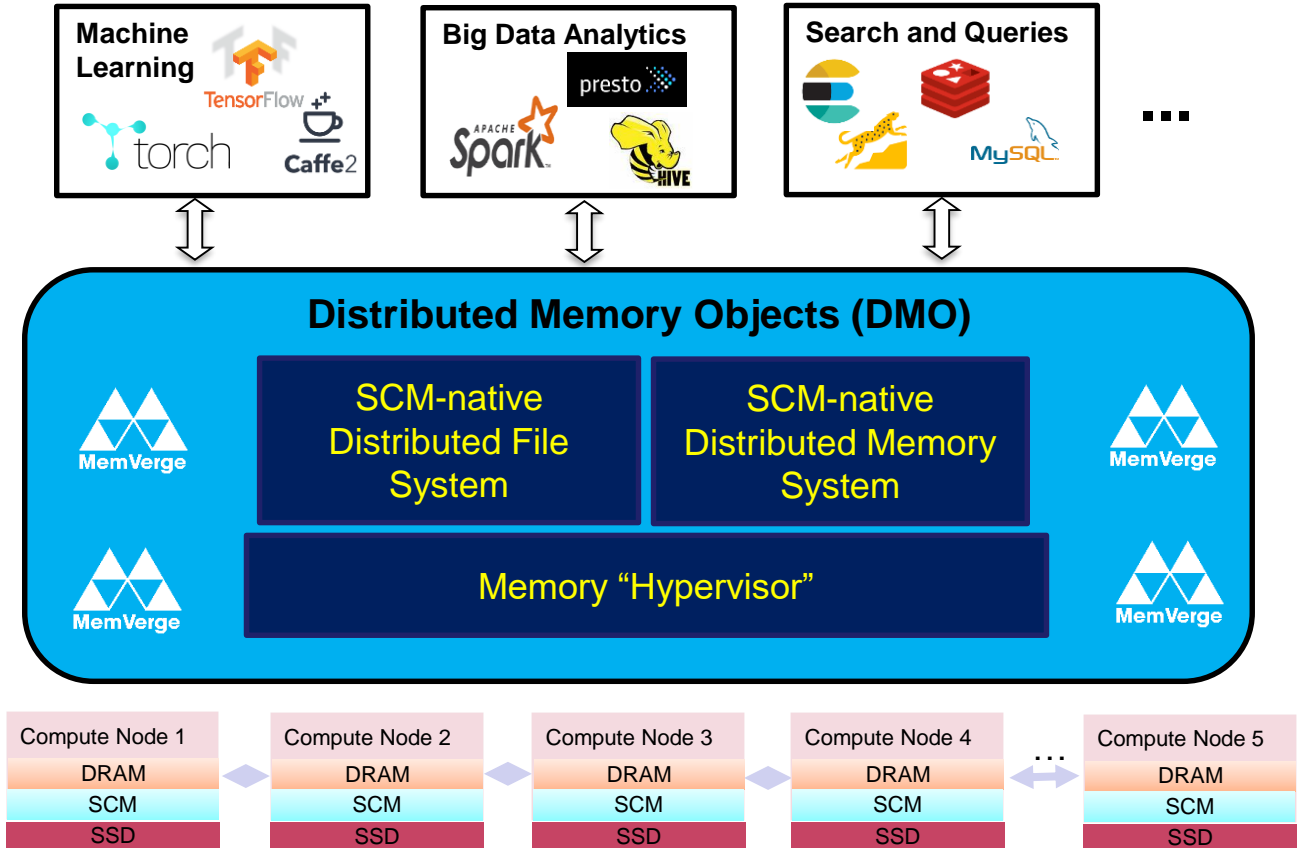| Storage IO is slow	DRAM is small and expensive
(100's of microseconds)	(100's of GBs)

Could there be a solution that makes storage faster and memory bigger?

Machine Learning, Big Data and IoT demand
nanosecond speed + petabyte scale data infrastructure

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Storage Class Memory

- Intel Delivered Optane DC Persistent Memory based on 3D XPoint tech in Q2 2019.

  - Revenue projected to reach $3.6B by 2023/2024

  - Additional major vendors to join the foray by 2022

- Storage at Memory Speed

  - 100-250ns R/W latency

- Memory at Storage Scale

  - 6TB/server

  - Persistent

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Memory Converged Infrastructure Platform

MemVerge in Financial Services

- Market Data Replay
  - Able to pull large data sets from pooled memory to process data in microseconds

- Multi Reader, Single Writer (Pub Sub)
  - Supports a Very large central data structure and lower end-to-end processing time

- KDB Acceleration
  - Improve existing deployments of KDB with large shared memory pool

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Thank you!