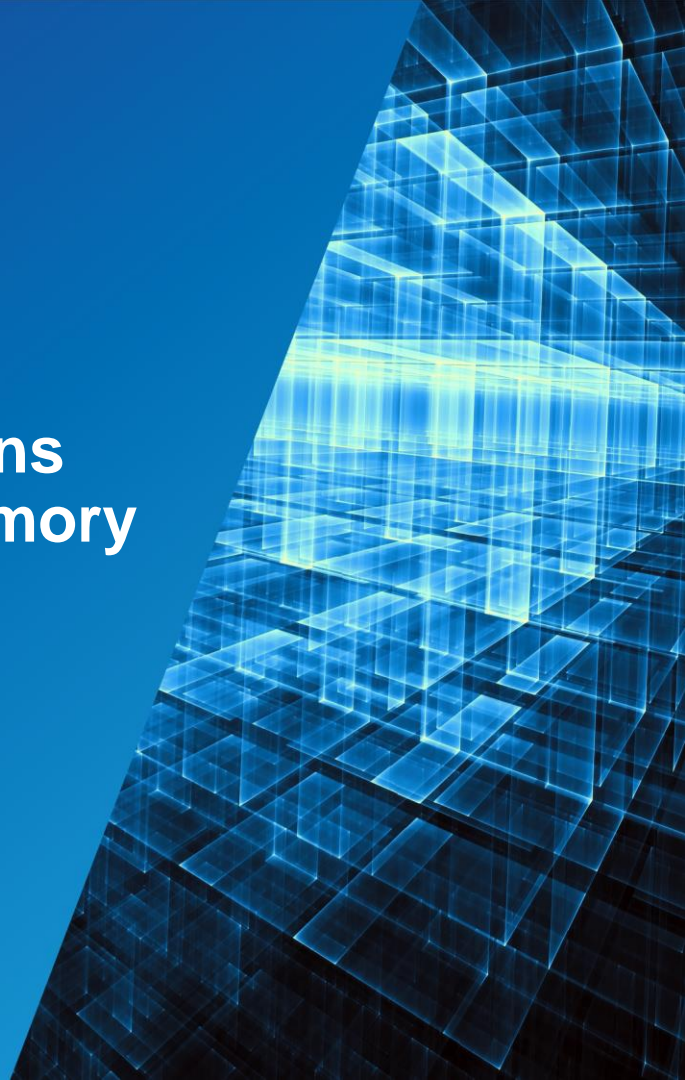




# Enabling Low Latency Market Data Applications with Storage Class Memory

Charles Fan | Co-founder & CEO



# Big Data and Fast Data

Storage IO is slow  
(100's of microseconds)

DRAM is small and expensive  
(100's of GBs)

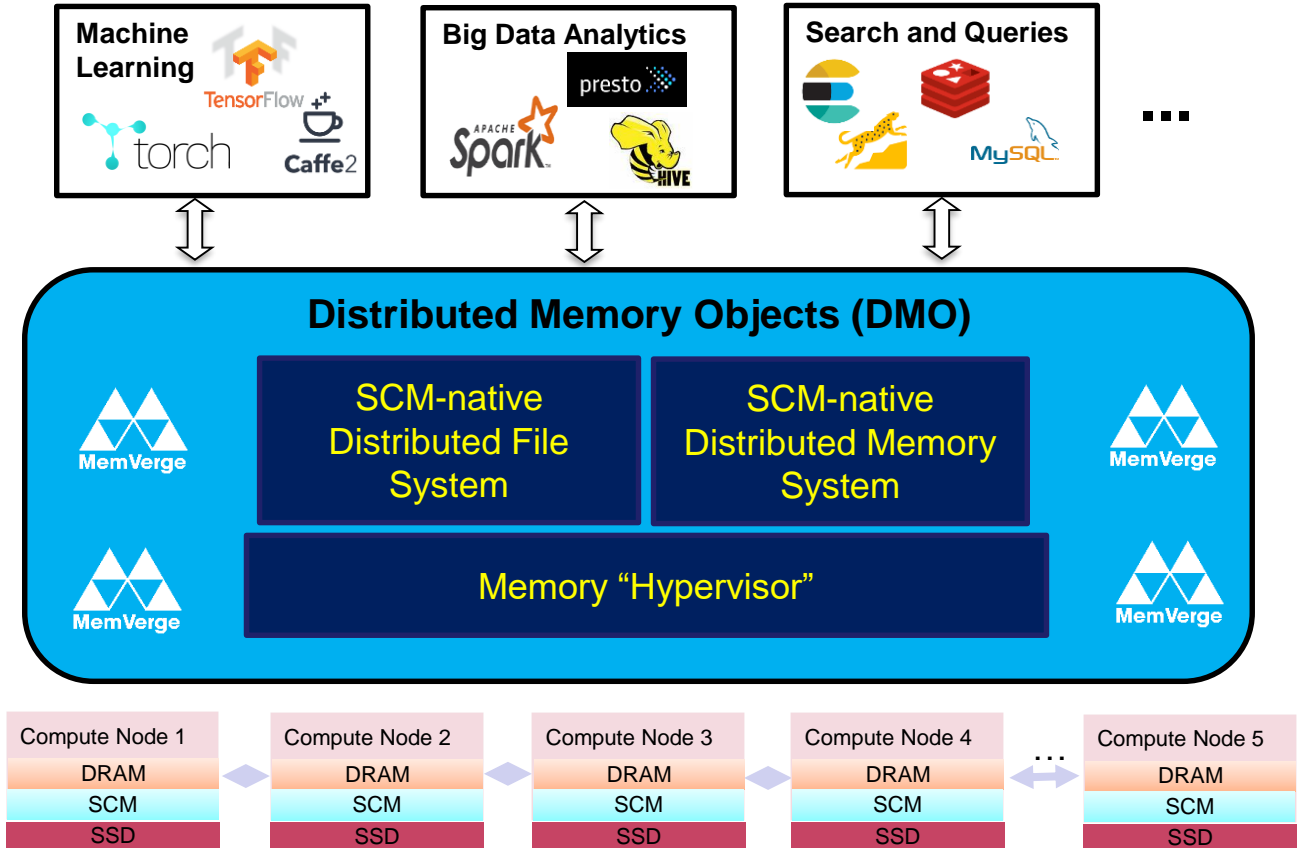
Could there be a solution that makes storage faster and memory bigger?

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

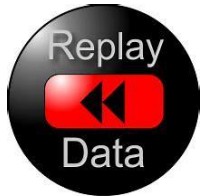
# Storage Class Memory

- 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

# 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



**Thank you!**

