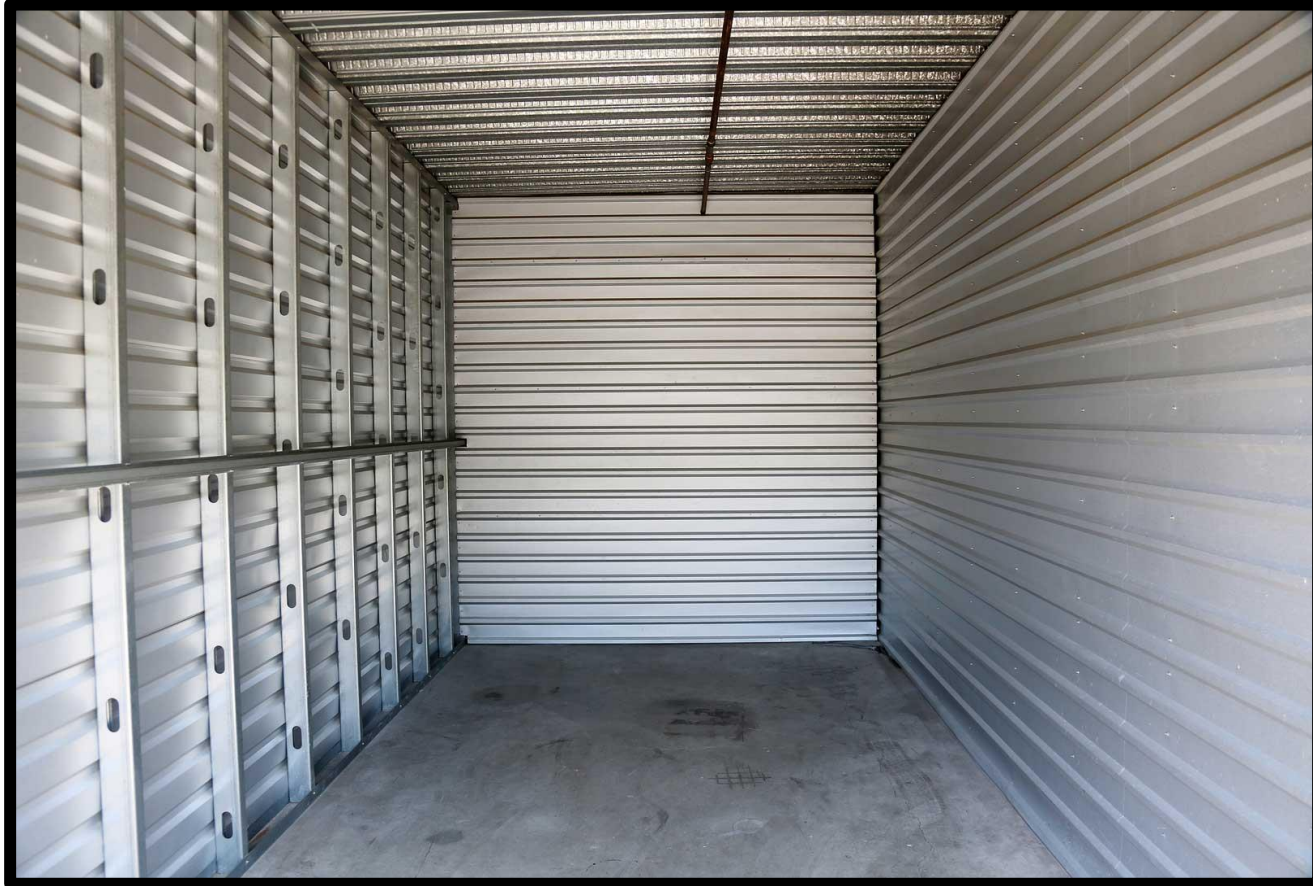# ScaleFlux®

Lower Latency + Zero Adoption Barrier = WIN-WIN!

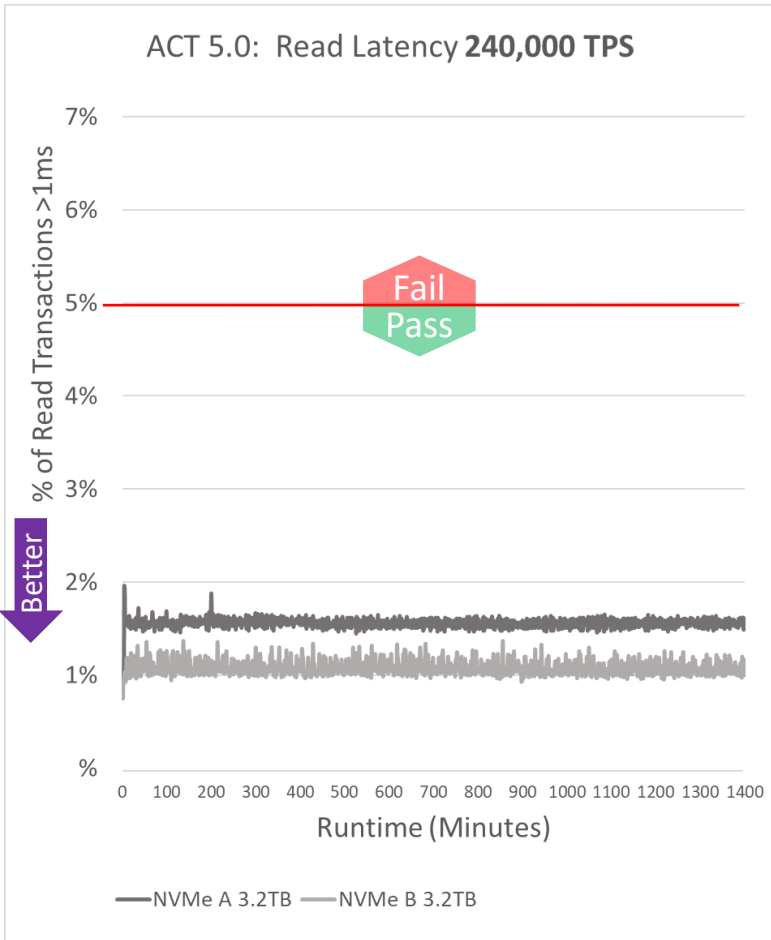**Pete Kapusta, Sr. Director of Sales Engineering**

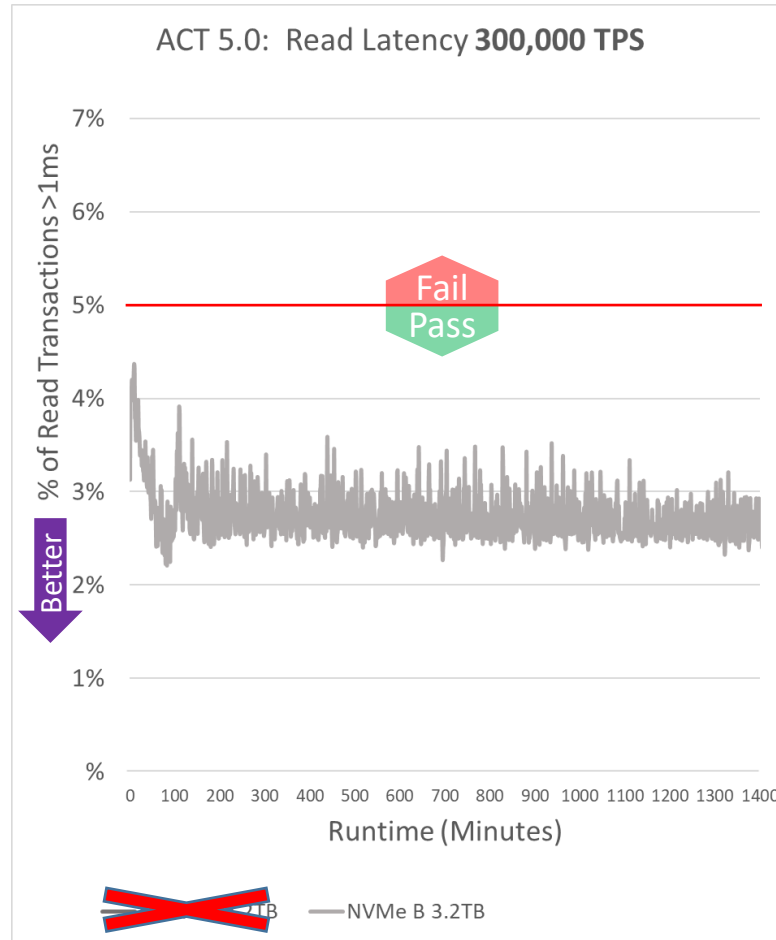# Why are we waiting for SSDs?

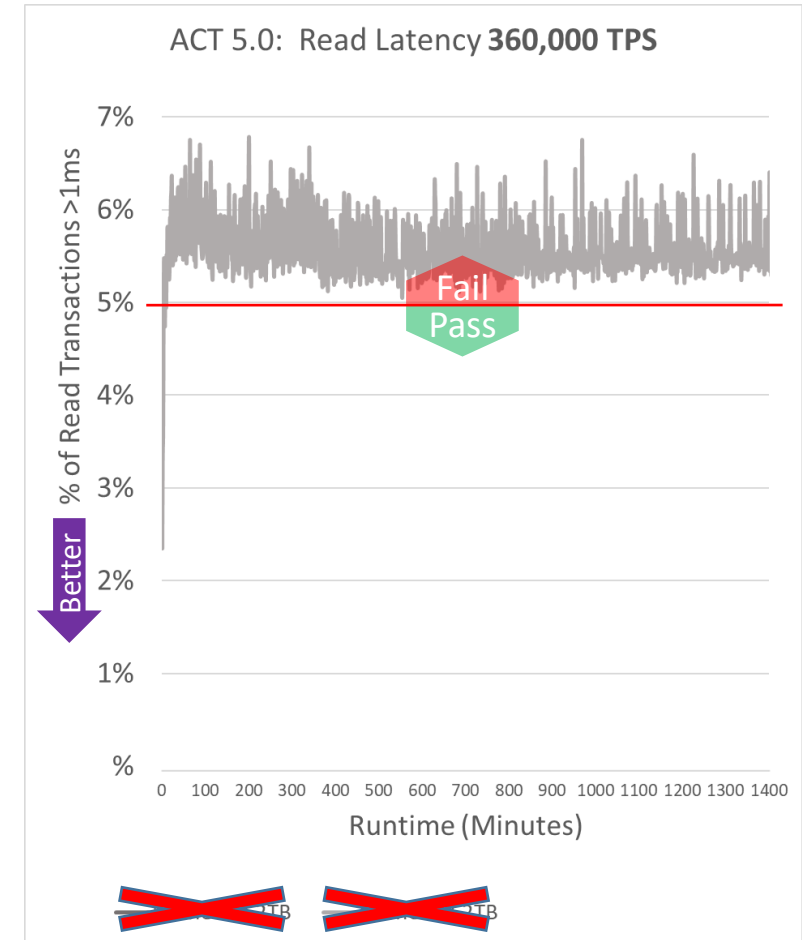# # Transactions/Sec Before Its Too Slow?

Pass = <5% of reads >1mS

ACT 5.0: Read Latency **240,000 TPS**

Both NVMe Drives Pass

ACT 5.0: Read Latency **300,000 TPS**

Only NVMe B Passes

ACT 5.0: Read Latency **360,000 TPS**

Too Many Transactions to Respond in Time...

Not STAC Benchmarks

How is this being solved today?

- ## We need space to write new data

- ## Options:
    1. Add more systems/SSDs
    2. "Reserve" space (Overprovisioning)
        - ✓ 7.68 TB ➡ 6.4 TB ➡3.2 TB
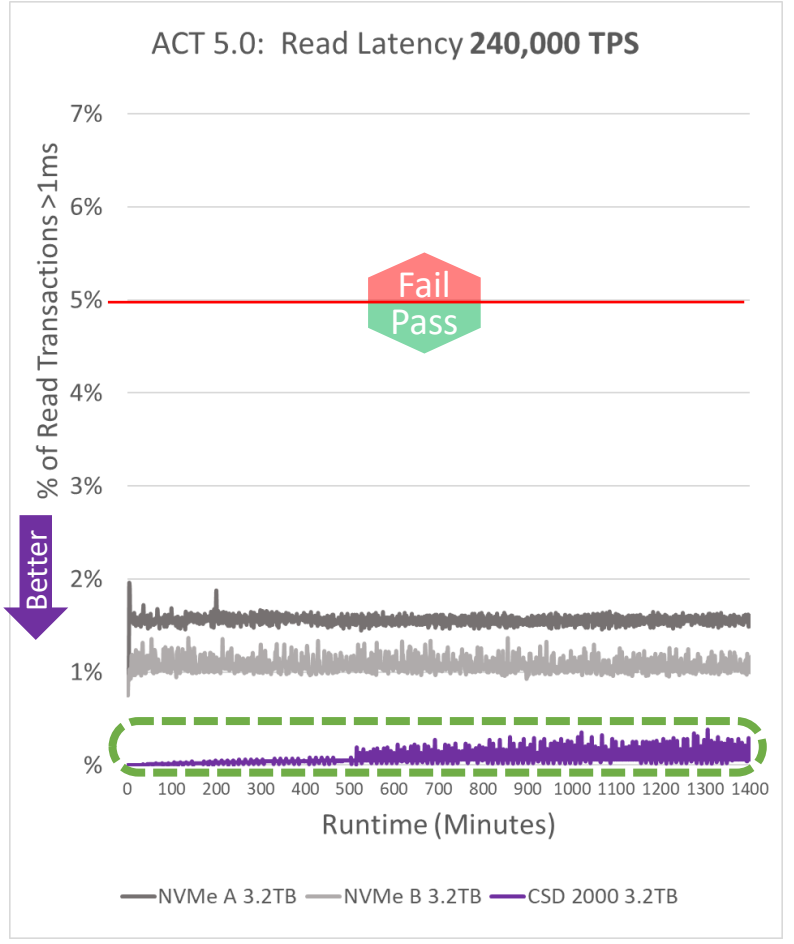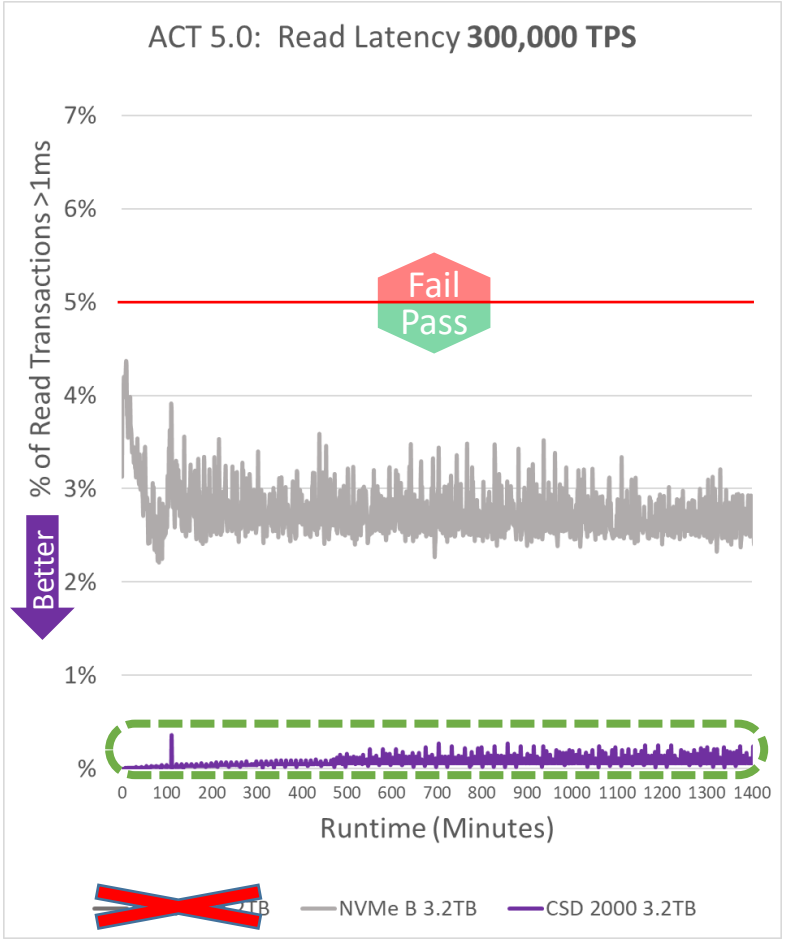
How do we fix SSD write performance?

BEFORE

AFTER

Transactions/Sec Before It's Too Slow?

Pass = <5% of reads >1mS

ACT 5.0: Read Latency **240,000 TPS**

All 3 drives pass

ACT 5.0: Read Latency **300,000 TPS**

ScaleFlux & NVMe B pass

ACT 5.0: Read Latency **360,000 TPS**
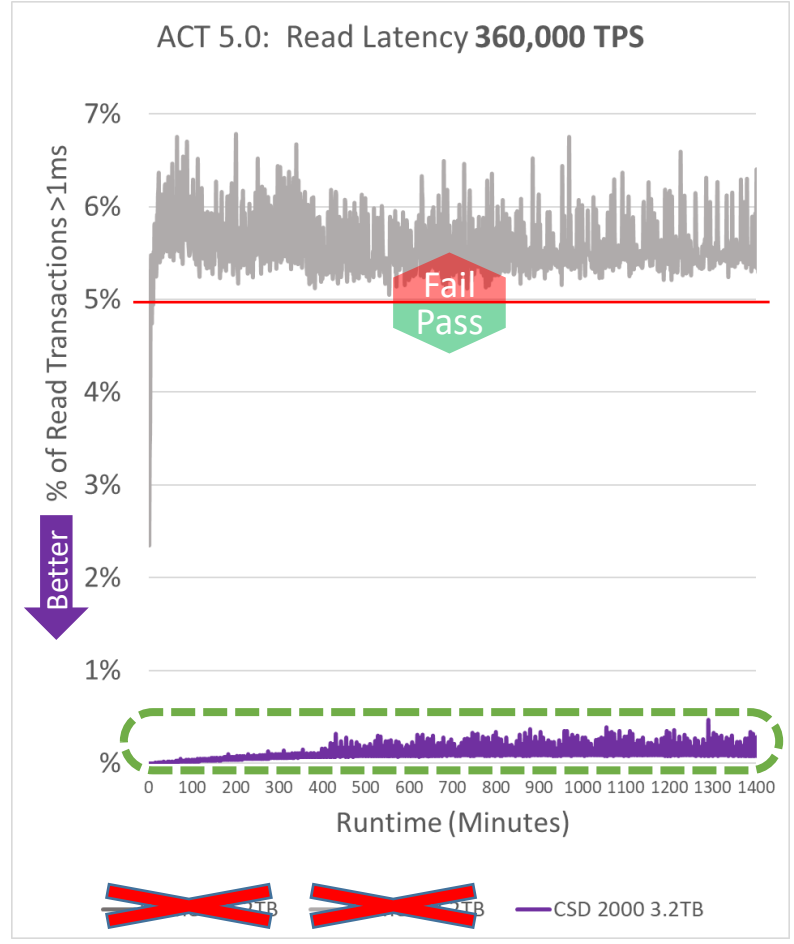
Only ScaleFlux passes

Not STAC Benchmarks

What Does an Advanced NVMe SSD Look Like?

ScaleFlux SSD FEATURES

- ✓ **Transparent, In-Line Compression**
- ✓ Up to 4x Capacity Multiplier
- ✓ **Higher Performance**
- ✓ **Insanely Less Latency**
- ✓ Endurance Multiplier
- ✓ Tunable Overprovisioning
- ✓ U.2, HHHL AIC. 4TB to 16TB RAW

Enterprise NVMe SSD + **Compute Engines**

ZERO APPLICATION CHANGES

Thank You

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ScaleFlux®