

Extended Capacity

Best-in-class TCO for Aerospike workloads



higher TPS

1.5x Transactions per Second
ACT 5.2 Read-Write



large TCO SAVINGS

50% Lower Cost per User TB
Data Path compression

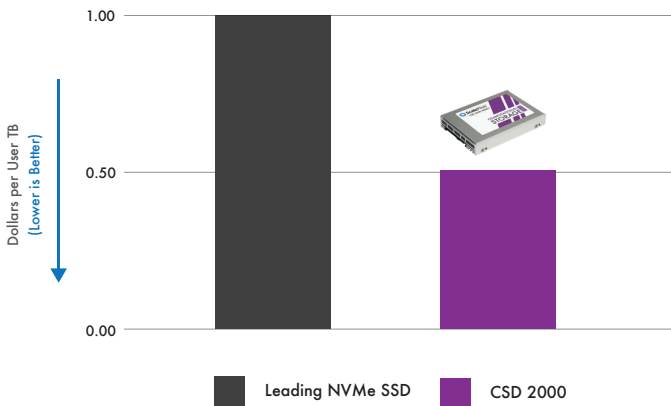


lower LATENCY

98% Better QoS
Significant Latency Reduction

EROSPIKE

Solution Cost
Lower is Better



*Aerospike Certification Tool (ACT) 5.2 - Large (128k) block reads and writes and Small (1.5k) block reads, simulating standard realtime Aerospike workloads. 24 hour test, 2:1 compressible data

Cut your flash cost in half!

The ScaleFlux CSD 2000 Series exceeds leading NVMe SSD competitor performance even when configured to be double their capacity - a true win-win scenario and clear TCO win. Because of data path compression and decompression, the CSD 2000's 4TB physical drive can be set to up to 6.4TB usable space - instantly reducing total flash cost.

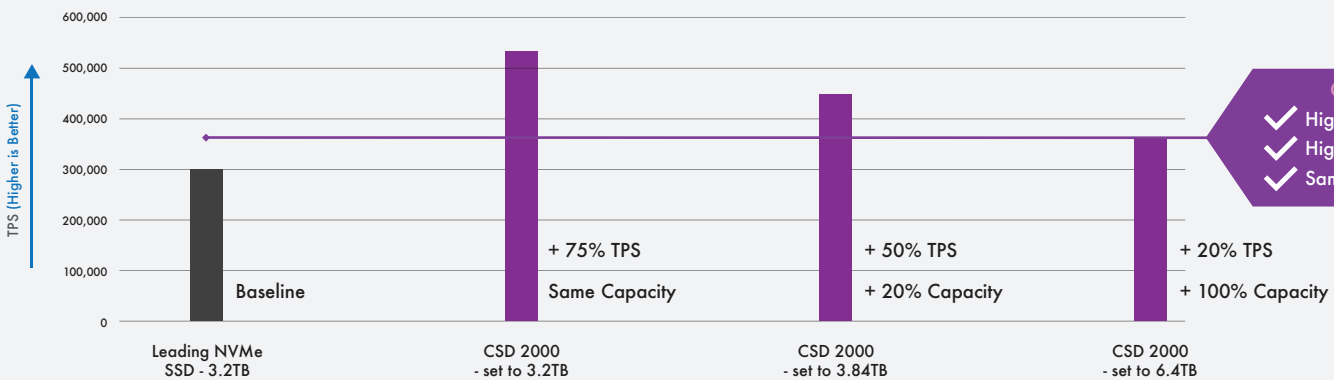
With Aerospike Certification Tool 5.2, the CSD 2000 simultaneously delivered 1.2x transactions per second and 2x usable capacity compared to a leading NVMe SSD -- at no extra cost!

CSD 2000 delivers **Penalty-Free Compression**:

- Half the cost to achieve 6.4TB of SSD storage
- Throughput scales with each drive – no CPU bottleneck
- Better performance than other SSDs without compression
- No bogging down of the CPU to compress the data

CSD 2000 can also be configured to **Enhance Performance** (see other side) to address different application & optimization needs.

Transactions per Second
Higher is Better



CSD 2000

- ✓ Higher Performance
- ✓ Higher Usable Capacity
- ✓ Same Cost



ScaleFlux® CSD 2000 Series

Form Factor - PCIe AIC & U.2 Drive Capacity - up to 16TB user capacity (8TB physical) Interface - PCIe Gen3 x4

SUPERCHARGE YOUR AEROSPIKE INFRASTRUCTURE! REQUEST A POC: info@scaleflux.com



Enhanced Performance

Best-in-class TPS for Aerospike workloads



higher TPS

2.2x Transactions per Second
ACT 5.2 Read-Write



better TCO

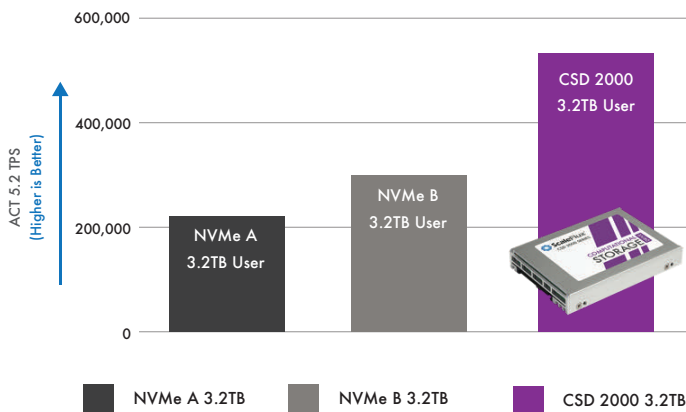
54% Lower Transaction Cost
Doubled Flash Endurance



lower LATENCY

98% Better QoS
Significant Latency Reduction

EROSPIKE System Performance
Higher is Better



*Aerospike Certification Tool (ACT) 5.2 - Large (128k) block reads and writes and Small (1.5k) block reads, simulating standard realtime Aerospike workloads. 24 hour test, 2:1 compressible data

Way ahead of the pack!

ScaleFlux data path compression and decompression in the CSD 2000 greatly improves transactional performance and reduces latency. We benchmarked the CSD 2000 vs industry leading NVMe drives with the Aerospike ACT 5.2 mixed workload test. The results were clear - the CSD 2000 is the leader in both speed and quality of service.

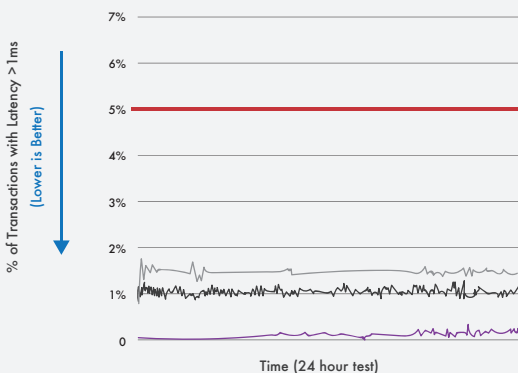
CSD 2000 consistently had the best latency profile as measured by the percent of transactions taking over 1ms to complete. As workload intensity increased, competing drives failed the test - either aborting early or exceeding the cutoff for percent of outliers - leaving the CSD 2000 standing alone in fulfilling the most demanding workloads.

Additional benefits of transparent data path compression/decompression:

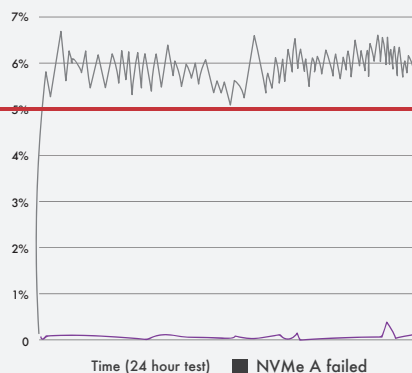
- Deploys seamlessly - no app modifications required
- Reduces physical writes to the NAND, doubling Flash lifetime*
- Minimizes Garbage Collection & die contention

CSD 2000 can also be configured to **Extend Capacity** (see other side) to address different application & optimization needs.

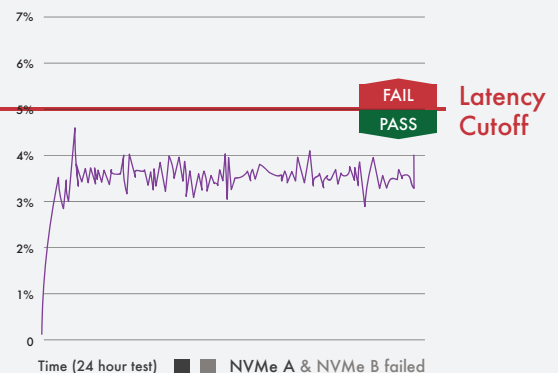
ACT Latency - 240,000 TPS
Lower is Better



ACT Latency - 360,000 TPS
Lower is Better



ACT Latency - 525,000 TPS
Lower is Better



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