

UNLEASH DATA-DRIVEN APPLICATIONS! DEPLOY COMPUTATIONAL STORAGE TODAY.

The CSS 1000 Series easily integrate into x86 Linux server/storage environments and derive their blazing performance by bringing heavy duty compute engines to the data. Its in-system hardware acceleration crushes compute and storage I/O bottlenecks to deliver increased transactions and reduced application run-time.

Accelerated Applications

AEROSPIKE

**APACHE
HBASE**



270% Transactions Per Second

Aerospike Certification Tool

260% Performance over Flash Capacity

YCSB Load Benchmark

160% Jobs Completed (HDD + CSS)

Teragen & Terasort

Leading transactions per second

Predictable low-latency performance

Easy-to-deploy agile flash storage infrastructure

Insertion performance 2.6x faster vs CPU GZip

18x better performance vs HDD

Upgrade with hybrid architecture

60% more jobs completed over 3 years

30% dollar-per-job savings

Dramatically improves server utilization

ScaleFluxTM Computational Storage Subsystem (CSS) 1000 Series

Form Factor

- PCIe AIC & U.2 Drive

Flash Capacity

- 1.6 / 1.92 / 2.0TB
3.2 / 3.84 / 4.0TB
6.4 / 7.68 / 8.0TB

Interface

- Low-latency flash storage I/O device
- (Ext3/4, ZFS, XFS, etc.) and all block storage applications
- Easy-to-use APIs/Libraries for Compute Acceleration integration

Compute Engines

- GZIP Compression, Erasure Coding, Flexible KV-Store Interface, Customizable Database Engine Accelerator

Tuning

- FTL/FM & Compute Engine parameters can be adjusted to fine tune performance
- Performance throttling based on temperature or power consumption

Reliability

- End-to-end data protection and ECC
- Integrated LDPC error protection and Flash die RAID
- Complete data protection for unplanned power loss

Applications

- Database / KV-Store - Mobile Edge Computing
- Big Data - Data Mining / Warehouse
- Content Delivery - HPC
- Search - Cloud
- Hyper-converged - AI / Machine Learning

Terabytes of 3D Flash   Compute Engine Acceleration



Schedule a proof of concept today.  info@scaleflux.com