Datastore for high performance computing

High performance computing needs

Description

Accelerate HPC workloads with fast data access to simulation data using a parallel file system and object storage back-end.

Customer Questions

- How can I optimize data throughput while minimizing the total up-front and operational cost?
- How can I tier my data for best results?

Common applications

- Geno-mics
- Automo-tive
- Oil & Gas
- Aerospace
- Manu-facturing
- Financial Services

Seagate System Solutions

Exos E 4U106 JBOD with SUSE
Exos X 5U84 RAID with Arcastream

Opportunities with 5U84 AP or 4U100 AP

Solution architecture

WEKA

CLOUDIAN

A(R)C(A)STREAM

IBM Spectrum Scale

Key solution advantages & benefits

- **3-4x lower total cost of ownership** compared to public cloud
- **No software vendor lock-in** allowing for maximum flexibility
- **Quickly & easily scale up capacity** to grow with the business
- **Improve security** by keeping data **inside the business**
- **Maximize drive performance** with patented AcousticShield
- **Efficiently & accessibly store PBs of data**

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Seagate System Advantages:

- Easily scale to meeting changing storage needs. Meet crucial HPC application requirements for file system performance (highest GBs/sec), total IOPS, and at best $ per TB of usable storage

- Accelerate time-to-insights, consolidate, and manage massive unstructured datasets with ease using high-throughput, scalable storage architecture built for mass capacity

- Easily and affordably scale out petabytes of storage to meet data intensive workloads while maximizing capacity over time

- The industry's most space-efficient, high-density enterprise storage systems with the highest IOPS per dollar. ASIC design lowers hardware costs significantly.

- Flexibility to team up with customer's preferred cutting edge independent software solution providers – with no vendor lock-ins

- Single vendor reliability – Seagate is fully integrated and all components (chips, chassis, drives, & firmware) are tested as one unit. No concern of future growth or compatibility as data explodes

- World-class performance at best-in-class value