



Storage Software for BDEC



Exascale Computing

Big (Massive!)
Data Analysis

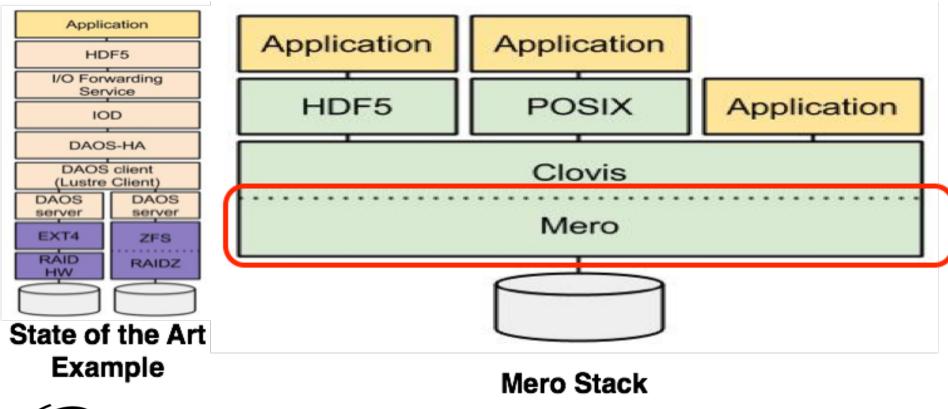


Exascale Data Centric Computing (Big Data Extreme Computing, or *BDEC*)

- Mero: Object Storage Software
- ✓ Build from the ground up to cater to BDEC
 - ✓ Involved <u>co-design</u> with the community



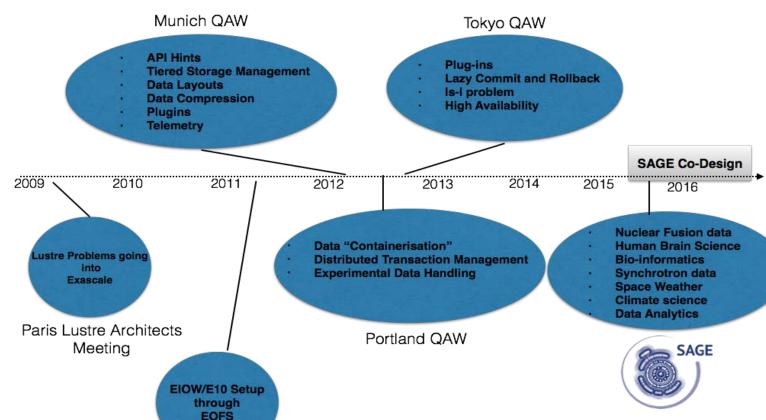
Mero Simplicity





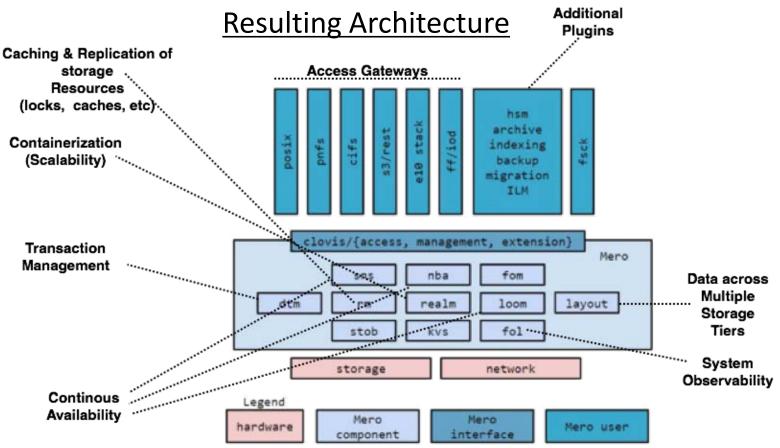
<u>Mero</u>

Co-Design Timeline





<u>Mero</u>





Everything you'd expect in an Exascale Object Store .. PLUS

Complex Layouts

PGAS and MPI One sided Comms

Peer-Peer Caching

Expect More!

In-Storage Compute

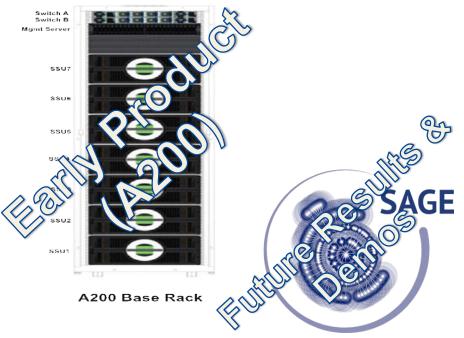
Analytics

SEAGATE

Event Log Subscription & Diagnostics

Ongoing Work & Next Steps

http://www.seagate.com/files/www-content/product-content/xyratex-branded/clustered-file-systems/_shared/datasheets/seagate-clusterstor-a200-datasheet.pdf



The StorAGe for Exascale Data Centric Computing (SAGE) system, resemble in and built of the SAGE project, aims to implement a Big Data/Extreme Computing (BDF) and beyon (Increasingly, overlaps occur between Big Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and High Performance Corput Data Analysis and Data Analysis and

The SAGE storage system, will be capablered by the storing of the computations integral to the storage peak. The SAGE system will be built around the Mero object storage software platform and its support of the same storage will be built around the Mero object storage required functionalities and the storage work flows. The SAGE system will seamlessly integrate a new generation of the same storage workflows. The SAGE system will seamlessly integrate a new generation of the same storage workflows around the memories as they become available. The SAGE system also offer a way ble API and a powerful software framework suitable for easy extensibility by third parties.

This white paper provides a tech color lew of the SAGE system and describes its key component pieces and the extended capabilities and to support it

http://sagestorage.eu/

