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Title: *SAGE - Object Storage Platform for HPC & AI*

Abstract

The landscape for storage for HPC is changing and existing parallel file paradigms which is designed for the petascale era is no longer suitable. There is a need to fundamentally change the software abstractions driving the storage infrastructure hardware especially with the arrival of newer non-volatile memories, which is expected to be part of the storage hierarchy for HPC along with Flash, and disk drives. Further we need to understand new use cases, and the storage and I/O needs of AI/ML which is not very clear at this moment as it exploits the HPC infrastructure at extreme scales.

This talk will discuss and provide updates of the Sage2 (Perceptient Storage for Exascale Data Centric Computing2) FETHPC project which addresses the above issues.