USATLAS SWT2-OU Storage Evolution from XRootD to CEPH

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I will give an overview of the high performance storage used at the US-ATLAS Tier2 computing facility (SWT2-OU) at the University of Oklahoma (OU), and the plans to migrate from the current XRootD based storage to the large CEPH based solution developed at OU. Both XRootD and CEPH are free high performance parallel file systems that can be deployed on any commodity storage hardware. XRootD was developed specifically for High Energy Physics (HEP) and optimized for data analysis using the root analysis framework, while CEPH is a more general file system that is now commonly used at High Performance Computing (HPC) clusters. CEPH is also a good candidate for small and medium size computing clusters with limited budget.