



Contribution ID: 127

Type: **Poster presentation**

Distributing CMS Data between the Florida T2 and T3 Centers using Lustre and Xrootd-fs

Monday, 14 October 2013 15:00 (45 minutes)

We have developed remote data access for large volumes of data over the Wide Area Network based on the Lustre filesystem and Kerberos authentication for security. In this paper we explore a prototype for two-step data access from worker nodes at Florida T3 centers, located behind a firewall and using a private network, to data hosted on the Lustre filesystem at the University of Florida CMS T2 center. The T2-T3 links are 10 Gigabit per second, and the typical round trip times are 10-15 msec. For each T3 center we use a client which mounts securely the Lustre filesystem and hosts a Xrootd server. The worker nodes access the data from the T3 client using POSIX compliant tools via the Xrootd-fs filesystem. We perform scalability tests with up to 200 jobs running in parallel on the T3 worker nodes.

Summary

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Session Classification: Poster presentations

Track Classification: Data Stores, Data Bases, and Storage Systems