Contribution ID: **109**   Type: **not specified**

A Scalable and Efficient Staging System between Dcache and HPSS at BNL

Thursday 3 November 2022 15:20 (25 minutes)

BNL recently implemented an efficient staging system between dCache and the backend HPSS tape storage. The system has three modules: the Endit Provider Plugin originated from NDGF, the ENDIT HPSSRetriever developed by BNL, and the optimized BNL's HPSS Batch (ERADAT) system. This solution addresses performance bottlenecks in staging identified during the WLCG tape challenges. The system significantly improves overall tape staging performance through its asynchronous nature, alleviating heavy loads on stage hosts, and optimizing tape batch retrieval methods. As USATLAS dCache has demonstrated its effectiveness, we plan to extend this staging system to multiple instances of production dCache.

Desired slot length

Speaker release

Yes

Presentation will be held...

remotely

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Session Classification: Storage and Filesystems

Track Classification: Storage & Filesystems