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Performance and Scalbility of xrootd

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When the BaBar experiment transitioned to using the Root Framework s new data server architecture, xrootd, was developed to address event analysis needs. This architecture was deployed at SLAC two years ago and since then has also been deployed at other BaBar Tier 1 sites: IN2P3, INFN, FZK, and RAL; as well as other non-BaBar sites: CERN (Alice), BNL (Star), and Cornell (CLEO). As part of the deployment, extensive and rigorous performance and scalibility measurements were performed. This paper describes those measurements and shows how the results indicate that xrootd is an ideal platform for low latency high performance data access; as well as its future role in memory-based data access architectures.

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