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Upgrading and Expanding Lustre Storage for use with the WLCG

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The Queen Mary University of London grid site's Lustre file system has recently undergone a major upgrade from version 1.8 to the most recent 2.8 release, and the capacity increased to over 3 PB. Lustre is an open source, POSIX compatible, clustered file system presented to the Grid using the StoRM Storage Resource Manager. The motivation and benefits of upgrading including hardware and software choices are discussed. The testing, performance tuning and data migration procedure are outlined as is the source code modifications needed for StoRM compatibility. Benchmarks and real world performance are presented and future plans discussed.

Tertiary Keyword (Optional)

High performance computing

Secondary Keyword (Optional)

Distributed data handling

Primary Keyword (Mandatory)

Storage systems

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