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Performance of Standards-based transfers in WLCG SEs

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While, historically, Grid Storage Elements have relied on semi-proprietary protocols for data transfer (gridftp for site-to-site, and (rfio/dcap/other) for local transfers)), the rest of the world has not stood still in providing its own solutions to data access.

dCache, DPM and StoRM all now support access via the widely implemented HTTP/WebDAV standard, and dCache and DPM both support NFS4.1/pNFS, which is partly implemented in newer releases of the linux kernel.

We present results of comparing the performance of these new protocols against the older, more parochial protocols, both on DPM and StoRM systems.

The next-iteration ATLAS data movement tool, Rucio, is used for some of these tests, which include examination of interoperability between the DPM and StoRM sites, as well as internal transfer performance within each site.

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