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The DESY Grid Lab in action

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Since mid of 2010, the Scientific Computing department at DESY is operating a storage and data access evaluation laboratory, DESY Grid Lab, equipped with 256 CPU cores, and about 80 Tbytes of data distributed among 5 servers and interconnected via up to 10-GiGE links.

The system has been dimensioned to be equivalent to the size of a medium WLCG Tier 2 center to provide commonly exploitable results.

It is integrated in the WLCG Grid infrastructure and as such can execute standard LHC experiment jobs including the hammercloud framework.

During its 18 month of operation, results of data access performance evaluations, especially in the context of NFS 4.1/pNFS but not limited to that, have been presented at various conference and workshops.

The goal of this poster is to give a comprehensive summary the collected findings and to attract the attention of the storage expert community, as the DESY Grid Lab is open to everyone to evaluate the performance of their application(s) against various protocols provided by the Grid Lab environment.

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