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dCache: Inter-disciplinary storage system

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The dCache project provides open-source software deployed internationally to satisfy ever more demanding storage requirements. Its multifaceted approach provides an integrated way of supporting different use-cases with the same storage, from high throughput data ingest, data sharing over wide area networks, efficient access from HPC clusters and long term data persistence on a tertiary storage. Though it was originally developed for the HEP experiments, today it is used by various scientific communities, including astrophysics, biomed, life science, which have their specific requirements. In this paper we describe some of the new requirements as well as demonstrate how dCache developers are addressing them.

Primary authors: LITVINTSEV, Dmitry (Fermi National Accelerator Lab. (US)); MILLAR, Paul; Mr MKRTCHYAN, Tigran (DESY); GARONNE, Vincent (University of Oslo (NO)); SAHAKYAN, Marina; MORSCHEL, Lea (Deutsches Elektronen-Synchrotron DESY); ROSSI, ALBERT (Fermi National Accelerator Laboratory); Ms CHITRAPU, Krishnaveni (National Supercomputer Centre, Linköping University); Ms MEYER, Svenja (Deutsches Elektronen-Synchrotron DESY)

Presenter: Mr MKRTCHYAN, Tigran (DESY)

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