

# Xcache in the ATLAS Distributed Computing Environment

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Built upon the Xrootd Proxy Cache (Xcache), we developed additional features to adapt the ATLAS distributed computing and data environment, especially its data management system Rucio, to help improve the cache hit rate, as well as features that make the Xcache easy to use, similar to the way the Squid cache is used by the HTTP protocol. We packaged the software in CVMFS and in singularity containers in order to standardize the deployment and reduce the cost to resolve issues at remote sites. We are also integrating it into Rucio as a volatile storage systems, and into various ATLAS workflow such as user analysis and event streaming services.

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