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Bulk file transfer and storage with GridSite and SlashGrid

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GridSite has extended the industry-standard Apache webserver for use within Grid
projects, by adding support for Grid security credentials such as GSI and VOMS. With
the addition of
the GridHTTP protocol for bulk file transfer via HTTP and the development of a mapping
between POSIX filesystem operations and HTTP requests we have extended this scope of
GridSite into bulk data transfer and storage. We present measurements of the
performance obtained from HTTP over the wide and local area networks and compare this
with other available protocols. Finally, we show how the SlashGrid component of
GridSite provides transparent access to remove HTTP(S) URLs which applications can
use via the operating system's POSIX file access API. SlashGrid/GridSite therefore
implement a distributed filesystem based on HTTP(S) and GridSite fileservers,
that can be used within a local area network or across the internet. This system
solely relies on Grid credentials such as GSI and VOMS and implements a fine-grained
access control model without the need to manipulate underlying Unix accounts or
permissions.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

GridPP

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