



C.S.C.

Expertise from Knowledge



dCache IPv6 support

PreGDB 10.6.2014 Ulf Tigerstedt <ulf.tigerstedt@csc.fi>

Generic info

- Since dCache 2.9.0 IPv6 is enabled as default. In previous versions it must be enabled manually.
- In versions prior to 2.9 most protocols do not support IPv6 at all.
- If upgrading, there is no net-unit defined for IPv6, so every access will fail.

Protocol teardown

- SRM: Working since a long time (with webdav).
- HTTP/HTTPS/HTTPG/webdav: Working since a long time
- Dcap: Working since 2.8.0
- NFS4.1: Working since 2.9.0

GridFTP and FTP

- Some support in 2.8.x, mostly as IPv6 FTP extensions.
- In 2.9.x, gsiftp was made compatible with globus-url-copy and the DPM gsiftpd daemon, ignoring the specification. This enabled non-proxied connections over IPv6 (delayed passive).

Xrootd

- 2.9.4+ now acts as a better xrootd server than the native xrootd 4.0.0 daemon for IPv6.
- The protocol specification was vague on some points, they have now been fixed.
- At the moment no known incompatibilities are known between the xrootd 4.0.0 client and dCache over IPv6.