



dCache and SRM 2.2

The basic building blocks of
space token management

Prepared by

Martin Radicke

and

Owen Synge

- Where we start
- How to enable Space management
- Writing to Reserved Space
- Implicit Space Reservation
- Space Reservation for non SRM transfers

- We have to start with
 - Virtual maschine with a running dCache
- What we are going to do now.
 - Create a space reservation
 - Enable space management
 - Create a link group

- Enable space Management
 - dCacheSetup
 - Contains the settings for dCache
 - Enabling space management
 - Disabling implicit space management (for now)
 - PoolManager
 - Controls how files are treated by dCache
 - Hierarchical module used to steer file storage
 - Pools -> Pool Groups -> Links -> Link Groups
 - Add only one pool to the Link which goes into the Link Group.
 -

- Test the space Management
 - Client
 - getting space metadata from the client side.
 - Srm write, using a Space Token.
 - Delete File from the name space.
 - Effectively removing a file from a space as well.
 - Check space size.
 - client commands: get all tokens by Space Token Description
 - get metadata for each Space Token.

- Test the space Management
 - Server
 - resize the space
 - reserve a second space with the same description

- Implicit Space Reservation.
 - enable implicit Space Reservation in dCacheSetup
 - srmcp with Access Latency and Retention Policy.
 - srmcp with AC/RP witch doesn't match any LGs
 - should fail

- Enable Space Reservation For Non SRM
 - srmcp writes into managedSpace,
 - gridFtp writes into unamangedSpace
 - enable SpaceReservationForNonSRMtransfers in dCacheSetup
 - redo a gridftp write
 - Transfer should now go into managed space
 - Does not work for (gsi)dcap and xrootd