

# D-Cache Installation Scripts and the D-Cache Functional Test Suite

Owen Synge and Elena Tews

# D-Cache Installation Scripts

- D-Cache managed Fork of YAIM
- Code forked again for OSG install system.
- Uses “Standard” Yaim site-info.def
- Incremental improvements based on support calls of YAIM users.
- Recommended as best route to install D-cache on small sites.
  - We like users to use scripted installs of D-Cache.
- Currently supporting 1.7.0-X branch of D-Cache

# Whats New

- PNFS only node.
  - Admin and pnfs node are optionally separated
- Door only node.
  - Pool and Door nodes are optionally seperated
- Cleaner configuration manipulation.
  - Most settings set at same stage.
- Faster operation.
- Does not mangle white space.
  - Configuration values set by sed rather than bash!

# Plans for installation Scripts

- CfEngine and Quattor
  - Both want scripts for their use
  - Both have similar functional requirements
- Scripts will be integrated into D-Cache
  - Not expected until 1.8 release of D-cache
- Script command line being redesigned.
- Effort to be placed into further development of D-Cache internal scripts.
  - Better debugging for naive users
- Support separate Database node

# D-Cache Functional Test Suite

- New project for D-Cache
- Server and client side tests
- Initially Intended for internal use
  - As Part of a larger test system.
  - Proving useful in release testing
  - Helpful for D-Cache admins
- Written in Python for easy extension

# D-Cache Test Suite II

- Command line driven
  - List available tests
- Select groups of tests
  - Eg Client tests for release of D-Cache 1.7 using GSI security
- Output Busyb configuration files
- Multiple debug levels
  - So you know what happened or can ignore.
- Packaged into an RPM

# Todo List for D-Cache Test Suite

- 3<sup>rd</sup> Party copies, more Xrootd tests
- Documentation
  - README, Extending, and internals
- Improvements to provide more accurate diagnosis.
  - Active and passive protocols in separate tests
- Release
  - Expected public release end of February
- Long term plan
  - as part of automated regression service

# Summary

- D-Cache is Highly customizable
  - This makes sites differ greatly
- Plans for increased consistency
  - Of deployment
    - Automating installs
  - Of releases
    - Functional test suite
- Target
  - D-Cache intends to keep increasing release quality
  - Reducing release test cycle time