

# Production version of xrootd

(Summary work)

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# Outline

- 1 Production mode of xrootd
- 2 Recent issues with production mode
- 3 Future plans / action items

# Summary of done work

- preventing crash of xrootd server (fault-tolerance outside the xrootd)
  - prepared script which is taking care of xrootd records in crontab
  - Features: independent on xrootd redirection roles, check and in not order rewrite new records
- preventing crash of supervisor's nodes
  - put additional redundant supervisor's node into xrootd configuration
- solution for loading xrootd client library
  - added environment variable "USEXROOTD" into SUMS which brought decision-making possibility of using client classes inside ROOT
  - xrootd client library is used by default configuration of ROOT :)

## Continuing ...

- making client side code independent of server side
  - prepared separated class which needs to be propagated into ROOT as bug fix to version 4.04.02
- what for is libCrypto library used ?
  - authentication plug-in is loaded dynamically when it is needed
  - same code is used by both sides (client, server)
  - client is loading authentication dynamic library through LD\_LIBRARY\_PATH from server side code
  - plugin could use various authentication protocols (pwd,krb5,gsi)
  - each protocol uses encryption algorithms (openssl, RSA, X509)

## Recent issues . . .

- still problems with authentication on rootd side
  - the earlier issue with TAuthenticate came up
  - everything is ok when reading files remotely only from one node inside one job
  - during attempt to authenticate on other node, authentication fails
  - failure lies on fact that GlobalUser is not used (investigating it)

# Future work ...

- 1 summary of CHEP talks related to SE
  - no chance to focus on that
- 2 summary of namespace purpose in C++
  - again, no chance to finish it
- 3 set up of xrootd purging and testing
  - set up of xrootd trasholds and testing them
- 4 next DataCarousel testing/corrections
  - new tests and making sure that my graphs are correct
- 5 things from last time
  - set up xrootd monitoring, plots of bytes/sec NFS/XROOTD