

# Xrootd status and ongoing/future work

## (2 weeks status report)

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Pavel's and Jerome's meeting  
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# Outline

1 Summary of done work

2 Ongoing/future work

# Summary of my work

- **TEST** environment with few nodes and one redirector
  - separated directories that development and production release are independent
- **Tests** on DataCarousel business  
Issues:
  - numbers of requests to DataCarousel has decreasing fashion - at the end 2 per minute
    - on xrootd side is no parameter that stalls client with increasing time
    - made changes in configuration
    - servers are reporting their load often - each 30s
    - overall time to delay a client if not enough space is 60s
    - my proposal is to look more on client side of log
    - ask Fabrizio how he handles failures (file wasn't staged etc.), multiple attempts for failed file ?

# Continuing ...

- **Purging** and its issues
  - server must have minimum free disc space to be taken in consideration
  - servers are then selected by the reported load (computation is configurable)
    - need to check it in a code
  - set up the minimum space as 1KB
    - did fill one of disc in test environment and tried to apply the purging
    - tried to find the bottleneck -> need more time
  - is it possible to call the purging script from xrootd layer and not mps ?

# Ongoing/future work

- write my **homework** on C course
  - will give you tomorrow evening, I haven't started working on them
- process the old and new I/O statistics of **un-coordinated requests**
  - process, i.e perl script to parse needed values
  - want to use ROOT histograms (implies learn how to use them)
  - **Estimation:** 1 day
- event/sec measurement of **NFS/XROOTD** compare to running jobs
  - **Estimation:** 2-3 day

# Continuing...

- write proceedings for **CHEP** conference
  - Can I catch it in time ?
  - **Estimation:** 7 day + comments
- measurement of **fault-tolerance**
  - **Estimation:** so far no estimation, need to think about the measurement