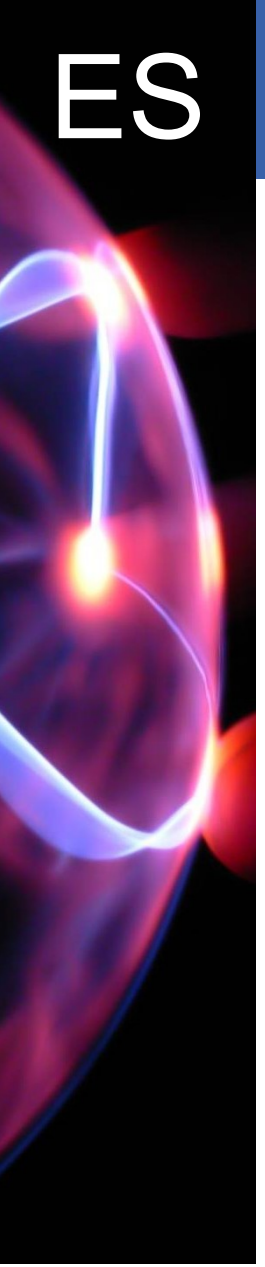

ATLAS issues at IN2P3-CC

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Description of the Issues

- dCache instabilities
  - Started September 22nd after dCache upgrade
    - Combined with OS upgrade
  - “Instabilities” mean performance (I/O) degrade
    - And finally outage (timeouts …)
  - Instabilities are intermittent
    - > 30 GGUS tickets from mid Sept. (see GGUS:63627)
- Staging from tape
  - Observed during October reprocessing campaign
  - Manual intervention needed in some cases
  - See GGUS:63896 as reference
- Access to Software Area
  - jobs timing out and failing in the SW setup phase
  - GGUS:63917
  - Increasing setup timeouts for jobs from 600s to 3600s helped
- First issue is the most critical
  - There is a pre-SIR for the third one (see last T1SCM)

dCache instabilities: immediate actions

- According to Lyon, the issue comes with “puts” into dCache from ATLAS jobs
  - ATLAS “gets” via dCap and “puts” via SRM+gridFTP
- On Nov 12th all ATLAS activities at IN2P3-CC have been stopped, except critical ones
  - Agreed with Lyon in phone meeting
  - Critical activities: reprocessing and export or reprocessed data to T1s
  - Stopped activities: , imports of data from ATLAS T0, analysis, MC prod (in the all FR cloud), export to T2s, import from other T1s
  - Also some reprocessing have been moved to other clouds
- On Nov 14th, instabilities reappeared, despite minimal load
  - 20K file puts in 8h according to dCache logs

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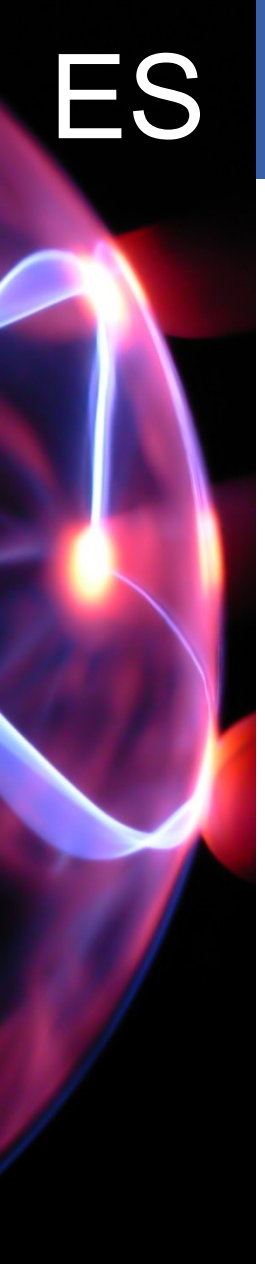
dCache instabilities: status

- ATLAS receives now one status report every day
  - Extremely appreciated, very helpful to understand the progress
  - Could Lyon present/append the same report to 15:00 WLCG daily?
- Various activities have been restarted incrementally
  - Basically full speed now
    - Something still throttled (number of jobs, active transfers)
- No signs of instabilities for the moment
  - But no more reprocessing (finished)

dCache instabilities: understanding



- Investigated Linux vs Solaris as possible bottleneck
  - Does not seem to make a difference
- IN2P3-CC involved dCache developers
  - Currently working with IN2P3-CC site managers
- IN2P3-CC can provide more infos on the current understanding of the issue.

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