Reprocessing Status

2015 reprocessing

https://twiki.cern.ch/twiki/bin/view/Atlas/December2015Run2Reprocessing

https://its.cern.ch/jira/browse/DATREP-41

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ADC, January 5th, 2016

2015 reprocessing status on one slide

> Express stream in first half of December was a bit "adventurous"

- Several last minute IBL updates meant quite some fraction was run 3 times and we were on hour-by-hour deadlines to get the DQ sign off done in time – but we made it

> First bulk reprocessing tasks sent at 18:00 on December 16th

- Further tasks and streams launched in stages over the Christmas break

> **Reco of 104/106 runs for physics_Main is now completed** ☺

- 2 runs from period 2 broken due to what looked like trigger issue; resubmitted re-adding `"DQMonFlags.doCTPMon=False;"` to preExec, looks good so far
- Some issues with remaining merges, but it's slowly getting there

> Second express stream: 5/112 reco jobs still running, 2 to resubmit (trigger)

> Second CosmicCalo stream: 10 priority runs submitted, rest to come shortly

> PixelBeam/VdM streams: some issues with missing beamspot info

- Relevant jobs running to complete this, 100/105 runs can be submitted now, but slowly (50ns running now) to check issue with large ESD size. Then remaining 5 with new beamspot

> <u>Still to come</u>: ZeroBias, physics_MinBias (6 runs comprising period B), **and** some DESD production, debug_Late stream

More details in SCC on Thursday

Some issues and observations for ADC

> The current error reporting really creates work: every reco error in m-core jobs is reported as: `"Missing AthenaMP outputs file athenaMP-outputs-RAWtoESD-r2e (probably athena crashed)"`. Much more digging to see the full picture

- Fortunately, have had <u>very few</u> software crashes in this repro (DCS/magnet fix was <u>crucial</u>)

> Tried using `"t1Weight=-1"` in `project_mode` for all merges, later adding `"ramcount=3000"` as well, but this caused many brokerage issues, some merges still stuck

- For example `"skip site=pic_HIMEM due to job RAM shortage 4095(site lower limit) greater than 1000 criteria=-highmemory"` is a strange message.. ?

- File transfer to T2s works fine, so removed this from new requests

- This issue has another problem: if task cannot be brokered, then it goes to "**finished**" rather than "**exhausted**", so later merges kick in. Can this be changed?

> Log files of broken tasks still sometimes not kept? And, please, change this message!! "You are out of luck today, file lookup failed. We have tried three different ways to find your file, unfortunately with no joy."

> The login to prodtask-dev.cern.ch/prodtask/task_manage dies after a fairly short time, and reloading the page loses the selection. Can this be extended?

Some issues and observations for ADC

> CERN-PROD_MCORE: Pool issue, did have lots of crashing jobs e.g. **"ERROR poolToObject: caught error: FID "B29C6BBD-5444-1045-BDE4-7683A2A23130" is not existing in the catalog (POOL : "PersistencySvc::UserDatabase:: connectForRead" from "PersistencySvc")"**

- I understood this is a /cvmfs vs /afs conditions issue, covered in this ticket
  https://its.cern.ch/jira/browse/ATLINFR-868

- Is now fixed? I saw some jobs running on CERN-PROD_MCORE again ☺

> Some more site based observations:

- ND cloud is quite bad, slow uptake of tasks: assigned/activated/starting sometimes for 24h and lost heartbeats. Also some with (e,g.) **"15x LRMS error: (257) Job timeout"**

- RAL, as is known, had quite some troubles over xmas, many lost heartbeats and staging issues of reco outputs for merges (still a couple outstanding with **exhausted** merges)

- BU/HU_ATLAS_Tier2_MCORE sites not so successful: long jobs, lost heartbeats and files lost in transfer

- Logs often not available from pic_MCORE , reports something like:
  "File download failed with command [export X509_USER_PROXY=/tmp/x509up_u25606 ; export LCG_GFAL_INFOSYS=lcg-bdii.cern.ch:2170 ; cd /data/wenaus/virtualenv/twrpm/pythonpath/ core/../core/media/filebrowser/e536d4ac-2a0c-4d6b-a4f9-2b23731c3ca4; curl -s -L -O -- cacert /tmp/x509up_u25606 --capath /etc/grid-security/certificates --cert /tmp/ x509up_u25606 https://dcdoor05.pic.es:8446/atlasdatadisk/rucio/data15_hi/bb/20/log. 07311678._001346.job.log.tgz.1]. Output: []."