

Trigger Offline Monitoring Report

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Trigger General Meeting – 16th December 2009

On shift

- Offline experts:
 - Olya Igonkina, John Baines, Ricardo Gonçalo
- Offline shifters:
 - Moritz Backes, Cristobal Cuenca Almenar, John Baines, Valerio Dao
- Infrastructure support:
 - Alessandro Di Mattia, Valeria Bartsch
- Many thanks to all!

RAW & Debug stream reprocessing

- A disk server (**lxfsrd5406**) lost in **atlcal** due to an electrical fault – **data could not be recovered**
 - Early reprocessed files: from 11th to 26th Nov. (before automatic system active)
 - Will not recover since we'll do reprocessing in January (see next slide)
 - Lost runs: 138630, 135388, 137851, 137909, 138062, 138065, 138111, 138167, 138181, 138185, 138186, 138187, 138193, 138460, 138630, 138790, 139016, 139020, 139023, 139228, 139236, 139239, 139241, 139247, 139302, 139303, 139334, 139336, 139340, 139818, 140370, 140462, 140476, 140477, 140521, 140528, 140536, 140541, 140571
 - Full list of files in:
<http://castor.web.cern.ch/castor/lostfiles/lost.lxfsrd5406.atlcal.txt>
- Automatic reprocessing going smoothly, with Alessandro's help!
 - Latest reconstruction tags: c20 c29 m250 m251
 - To interpret reprocessing tags:
 - <http://ami.in2p3.fr:8080/AMI/servlet/net.hep.atlas.Database.Bookkeeping.AMI.Servlet.Command?linkId=512>

productionStep	tag	SWReleaseCache	Geometry	ConditionsTag	transformation	moreInfo	description
calproc	c20	automatic-setup	n/a	n/a	BatchHLTTrf.py	python dict	Runs HLT reprocessing using the same online release but specifying different database keys for the trigger configuration.

January Trigger Reprocessing

- Trigger will not be re-run in fast offline reprocessing of 2009 data done in Tier1
- Data will be reprocessed by us on Tier0 in early January
 - Will re-run trigger and offline reconstruction
 - Window of around 2-3 weeks to complete this
- Need to find what we want to do asap, so that time is not lost in re-start
 - Last details can be fine-tuned in beginning of January, but no time for testing many new tags
 - First pilot run submitted yesterday by Alessandro to test MuCTPi fix
- Request of runs/streams to be reprocessed circulated yesterday to atlas-trigger-operation@cern.ch
 - First list from Denis for good HLTCalo runs
 - All collisions? Runs with SCT and Pixel on? Stable-beams runs? What else?
- To be clarified: which caches will be used
 - Offline: probably same as used for offline reprocessing
 - Trigger: new cache to be built soon – any new essential tags?

Tentative Schedule

- By the end of this week:
 - Have the list of runs and datasets that we want to process
 - Have a P1HLT release and an SMK key
 - Decide which Tier0 release we use for the reconstruction and the job setting
- By January 6th-7th
 - Add the few extra tags to P1HLT that we might need
 - Recreate SMK key if needed – **no major changes allowed**
 - Launch a small test run process
- By January 10th
 - Launch all jobs
- Real schedule cannot be too different, or it will interfere with the validation of 15.5.5 for online running

Tentative to-do list for 2010

- Short term:
 - January reprocessing
 - Improve automatic reprocessing:
 - To ease ad-hoc test jobs
 - Testing new caches, re-do steps with different keys...
 - Decrease need for manual intervention in Tier0 reprocessing
 - Automate pre- and post-analysis of debug stream
 - ?...
- Medium term:
 - Data Quality flags to become sensible and useful
 - But it was good to go through the exercise this year – better understanding of issue
 - More: see Pierre-Simon's talk
 - Tier0 histogram checking to become sensible and useful
- Long term:
 - Eventually to make shifter task available outside CERN

Happy Holidays!

