ALICE Grid Operations

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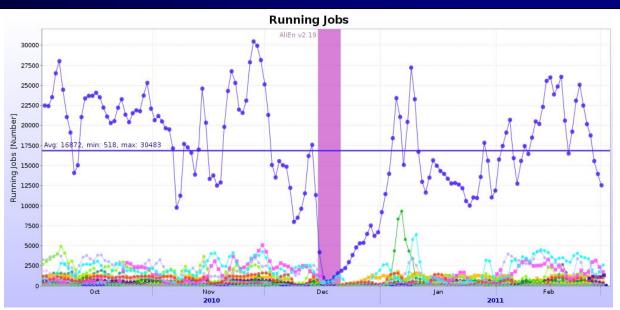
10th march 2011

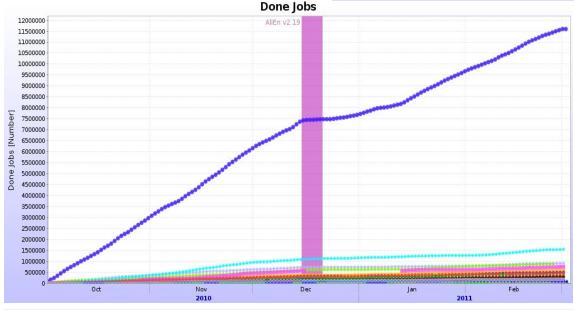
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Jobs

-Peaks of ~30K jobs -Average of ~17K jobs

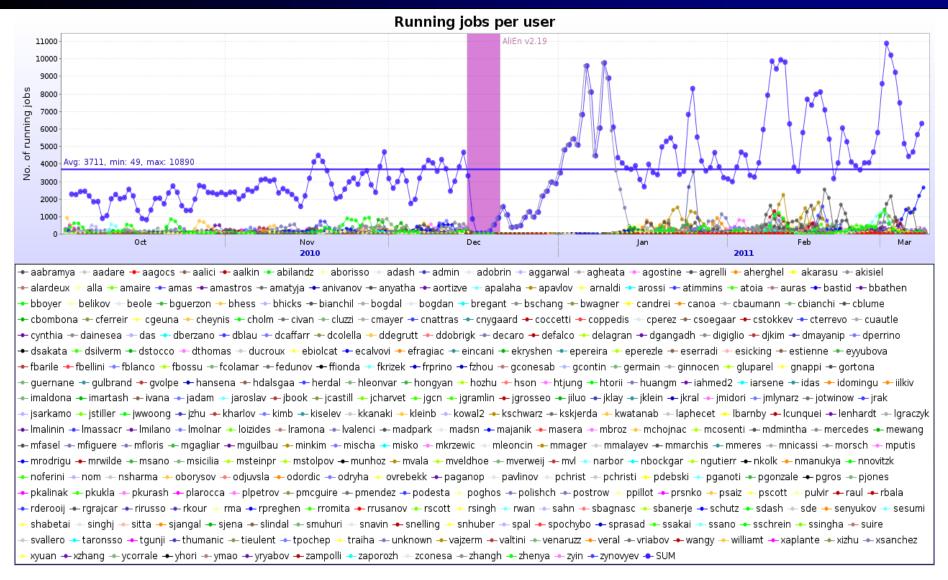




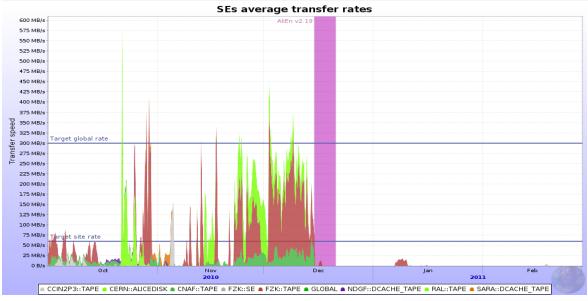
-12 million successful jobs

3

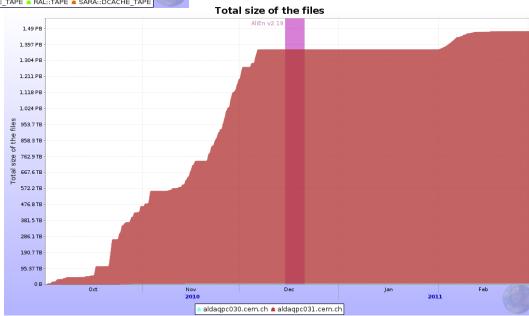
Chaotic user jobs



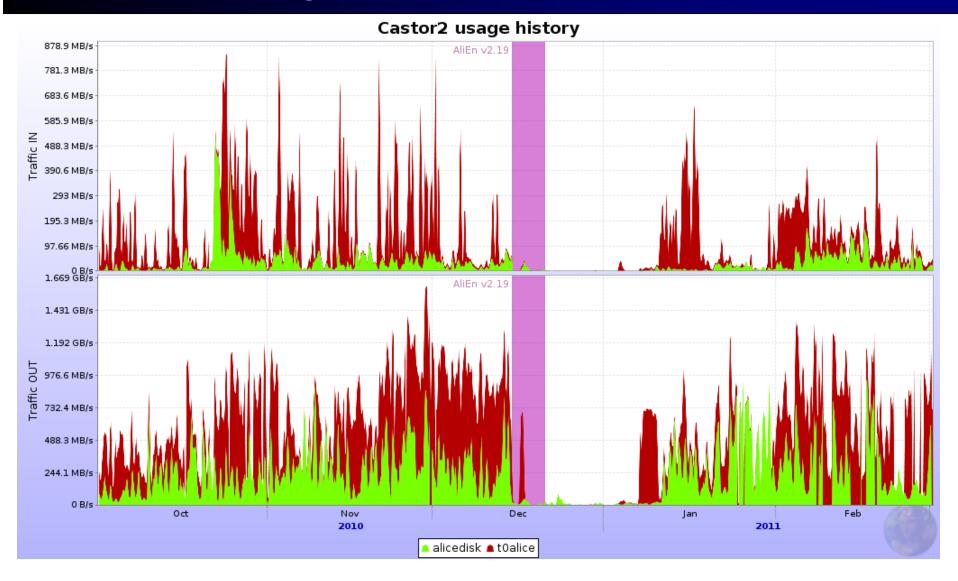
Raw Data Transfers



-Peaks of 450MB/s
-P+P and Pb+Pb
280+750 TB transfer



CASTOR Usage



Operational Issues

- Improve maintainability of Quattor managed machines
 - Modular template system
 - Increase the Quattor template intelligence
 - Decide depending on a setting of variables which templates to include
- Upgrade to gLite-VOBOX 3.2.9
 - new Glue 2.0 service publisher
 - new version of LB client
- Upgrade xrootd servers at CERN (voalicefs01-05)
 - SLC4 to SLC5
 - Quattor managed
 - Do all the templates for SLC5
 - Machines with crucial data that must be preserved
 - Many thanks to IT-DSS and IT-CF
 - Successful Operation!!

Operational Issues

- CAF extension
 - New 16 nodes
 - Integrate and configure from Quattor point of view
- Cluster Monitor issues
 - Usually a big site problem
 - Service stopped working due to a process which consumed lot of memory
 - Partly solved by now splitting the CM into the master process and the rest
 - Possible solution to make our life easier:
 - Set a MonALISA alarm to restart the service the moment it fails
 - Service Down? Try to restart the CM X number of times

Operational Issues

- AFS to torrent
 - Reasons:
 - AFS performance issues
 - Jobs were found using the r/w instead of the r/o volume
 - Synchronization problems
 - Testing at CERN in both VOBoxes
 - Couple of issues with background processes from the alieninstaller: not fully debugged
 - Performing well
- SAM-NAGIOS
 - Switch in March
 - Dashboard IS using the NAGIOS tests for the availability since yesterday
 - New instances for the NAGIOS tests

ALICE Impressions

- Happy with CREAM and support
- Happy with site stability and support
- RAW data processing and MC production on track.
 - Big date for ALICE is the QuarkMatter conference in Annecy (23-28 May)
- Heavy user activity on the grid since beginning of 2011
 - From 2K jobs in parallel to 6K up to 15K. This is a great success!!

ALICE is happy!

Current & Future Plans

- RAW Pass2 reco of the HI period is about to start : expected duration 1 month
- Awaiting physics run in 2011, all is ready
- Enhance the usage of GGUS
- Improve availability calculation profile
 - LCG-CE → CREAM-CE
 - Add xrootd tests?
- gLExec?
- No changes in operational model foreseen