



ATLAS Quarterly Report and Plans

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Outline

- Tier-0 and data-taking activities
- Data reprocessing
- Functional tests
- Simulation Production
- Plans



Tier-0 and data-taking activities

- Quiet period during the 1st quarter 2009
- Partial read-out tests ("slice weeks") started in March and will continue for another month
 - These are mostly DAQ tests, turning into more complete tests (including Trigger) later this month
- Global cosmic data-taking runs will restart during May
 - Initially with partial read-out, later on with the complete detector
- We plan the STEP'09 exercise from end-May to mid-June
- Late June onwards will see almost continuous cosmic data-taking
- Will be ready for collisions in Autumn 2009



Data reprocessing

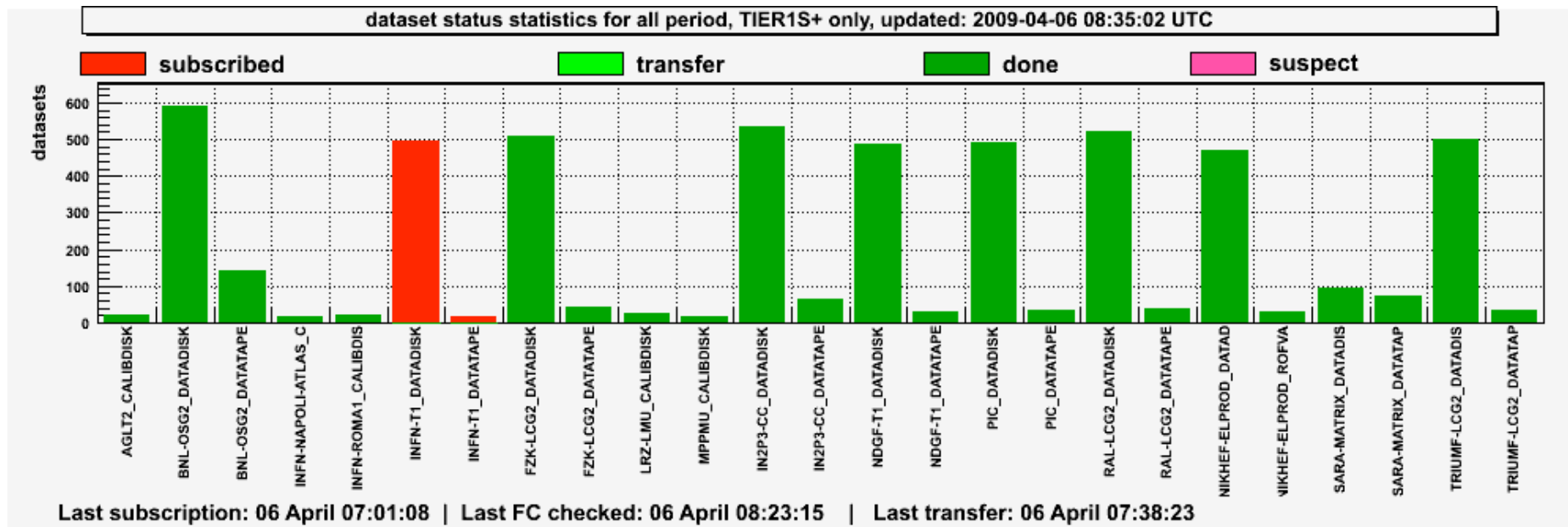
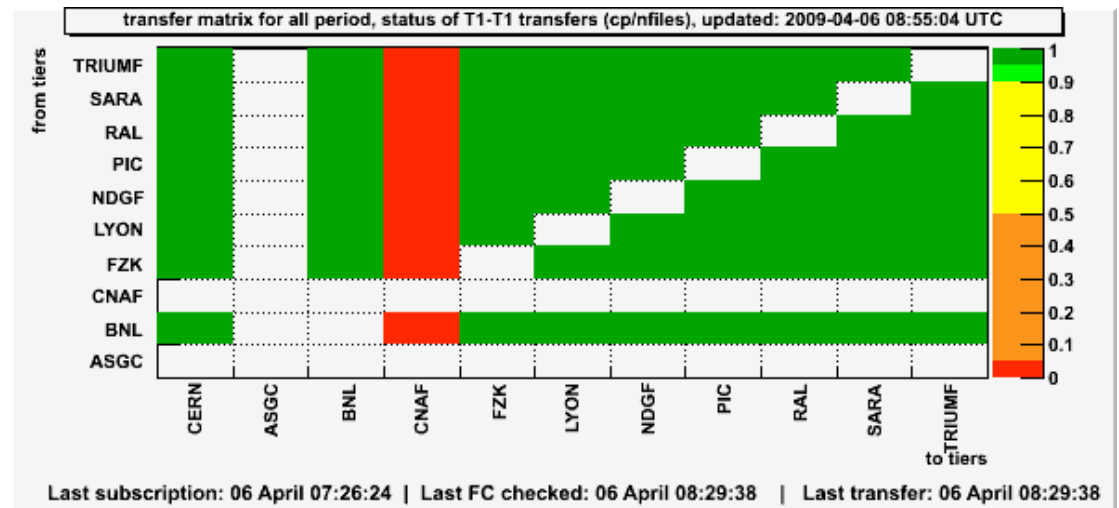
- We ran during the Xmas/NewYear period a reprocessing campaign for single-beam and cosmic data taken in August-November 2008
 - Partially forced by circumstances: the software and calibrations were finally ready only mid-December
 - Most sites ran on "best effort" during the holiday period
- Anyway, 500 TB of raw data were processed in 8 Tier-1 sites and CERN
 - FZK failed the validation in December: test jobs produced different results from all other sites (under investigation, the local Linux build is suspected)
 - ASGC had storage troubles in December when we launched the jobs
 - "Slow motion" in PIC and NIKHEF is under investigation
- Reconstructed data were merged and distributed to other Tier-1/2s
- A second reprocessing campaign just started
 - This time reading back raw data from tape (where possible)
 - Database access issues are believed to be sorted out — being checked



Data export functional tests

- We continue running data export functional tests at low level to keep checking the health of the whole system
- Site contacts are promptly notified of problems and we follow up all troubles together

FT data transfers 2/04/09-6/04/09

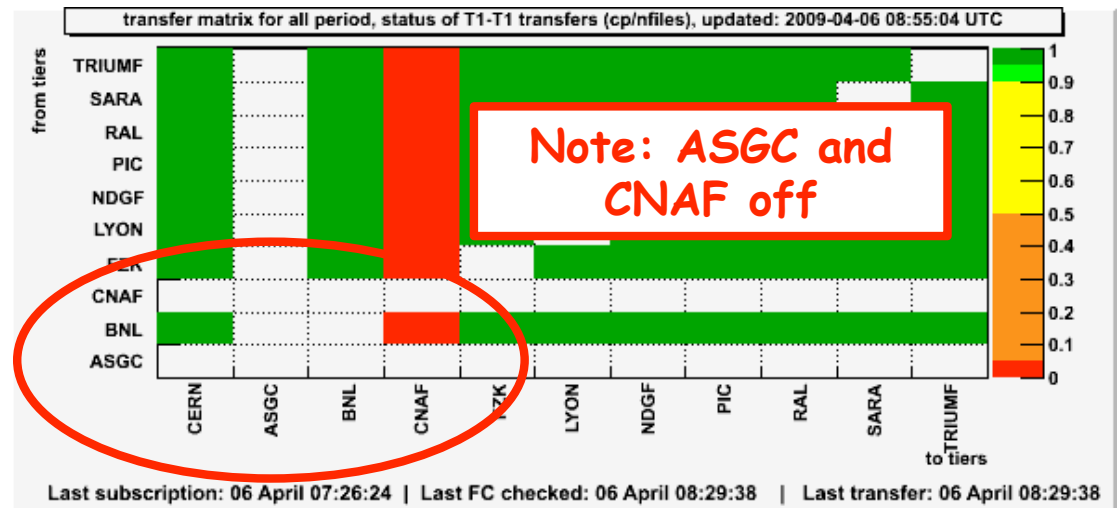




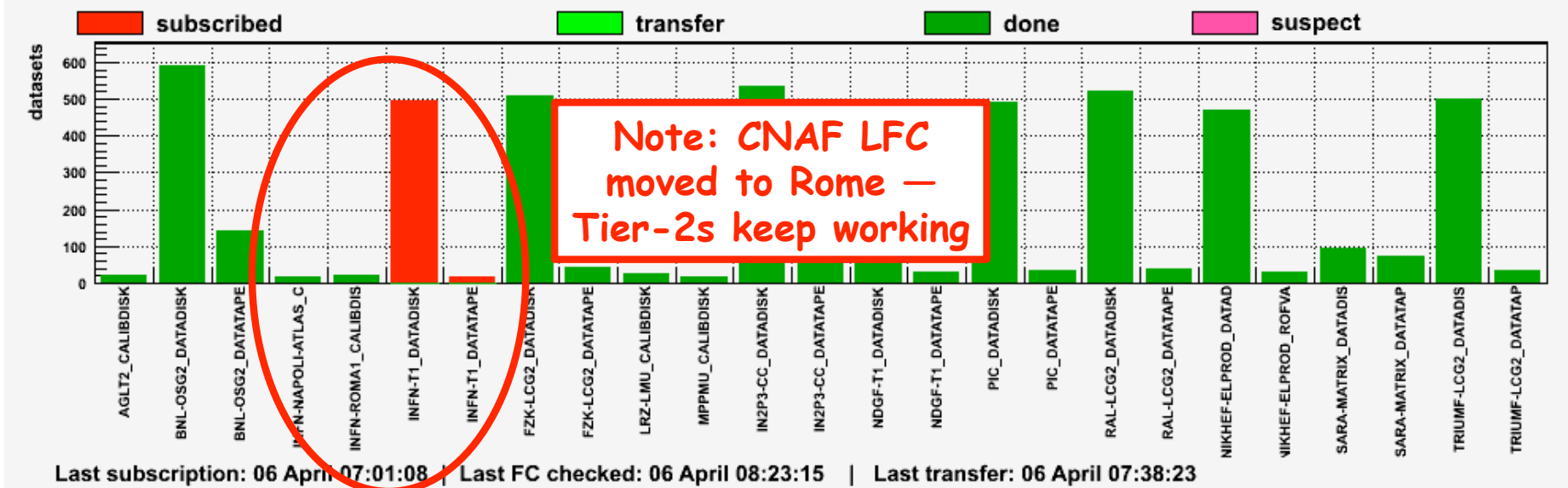
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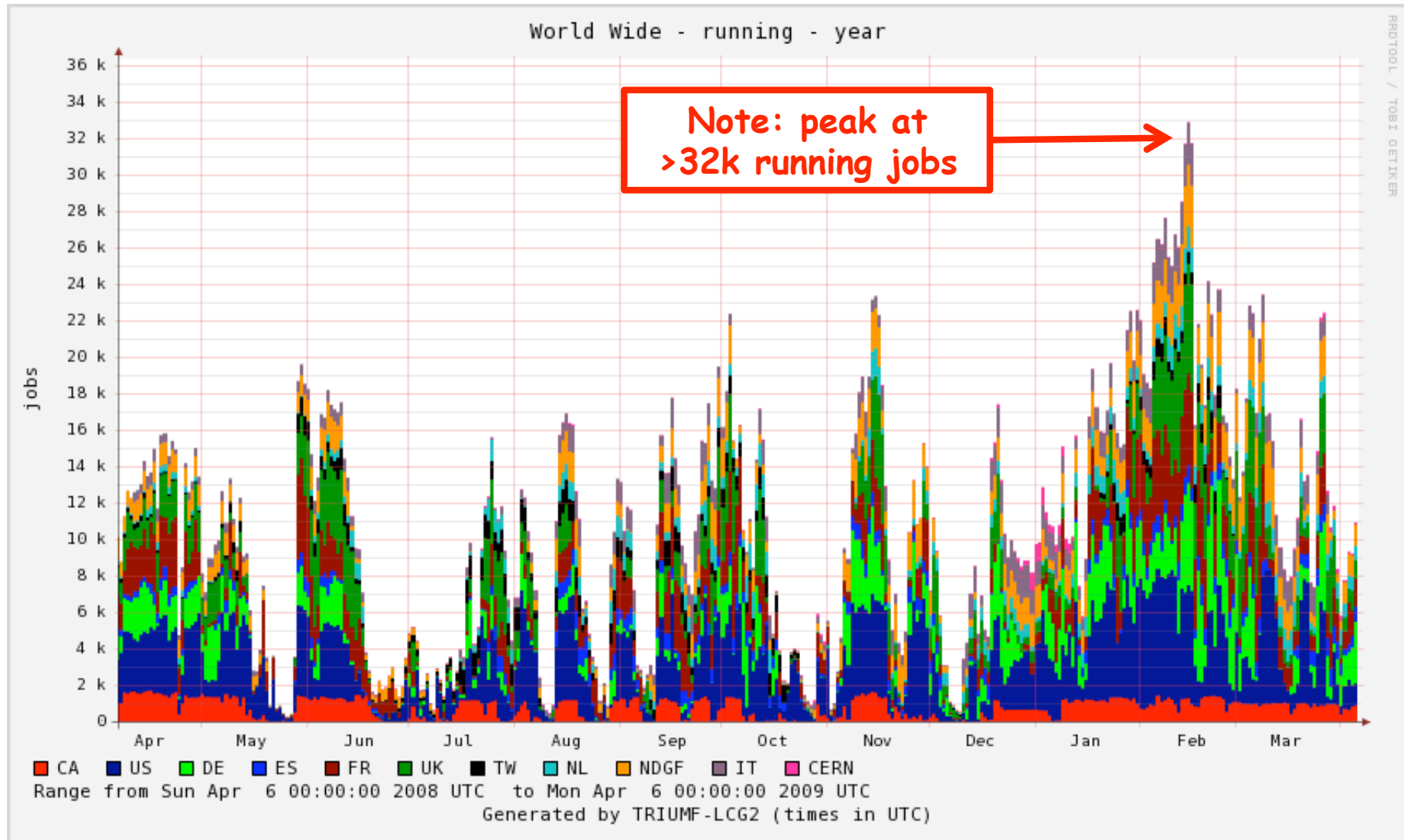
dataset status statistics for all period, TIER1S+ only, updated: 2009-04-06 08:35:02 UTC





Simulation production

- Simulation production continues in the background all the time
 - Only limited by physics requests and the availability of disk space for the output





Plans

- Software releases:
 - Release 15.0.0
 - March 2009. Includes feedback from 2008 cosmic running.
 - Base release for 2009 operations.
 - Releases 15.X.0
 - Once/month (or 6 weeks). Incremental code improvements.
- Cosmic runs:
 - Partial read-out:
 - In progress
 - Complete detector:
 - Restarting April-May 2009
- STEP'09:
 - Talk at GDB tomorrow
- Collision data:
 - We'll be ready for this Autumn
 - Resource needs have been re-evaluated and submitted now