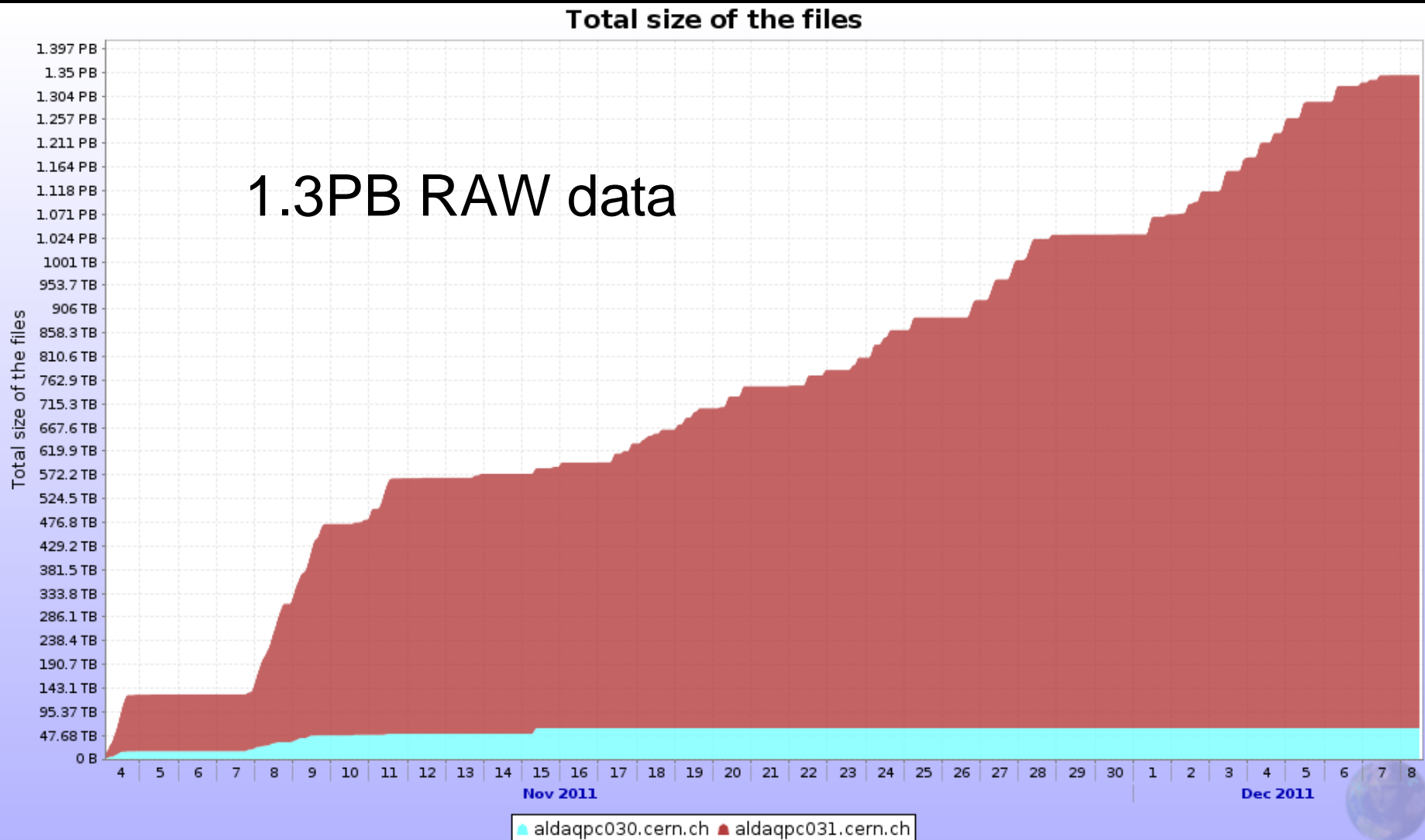




ALICE Operations short summary

Grid Deployment Board
Dec 14, 2011

2011 HI run



CASTO2 performance

Castor2 usage history

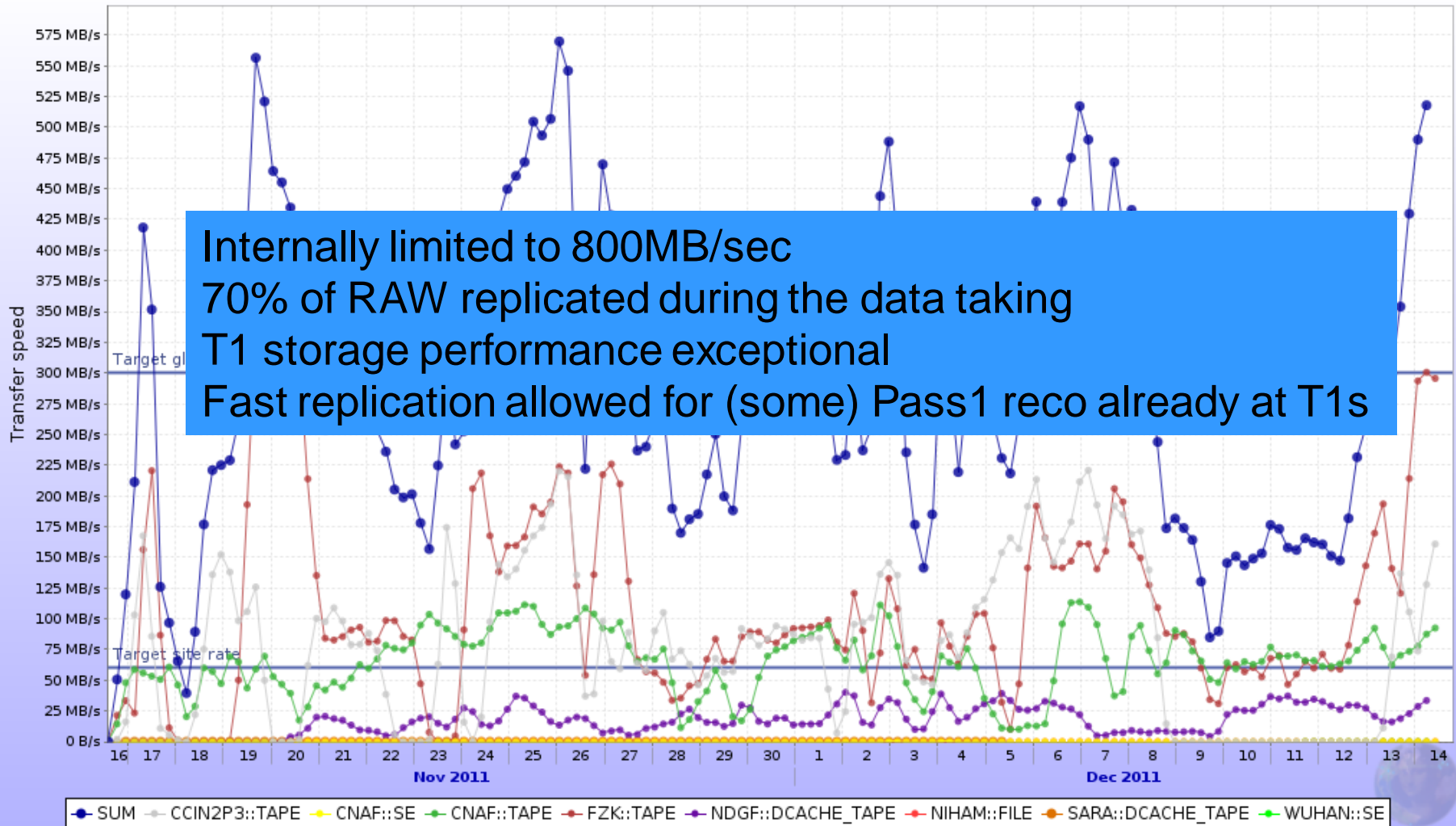


EXCELLENT – Big ‘Thank You’ to CERN IT

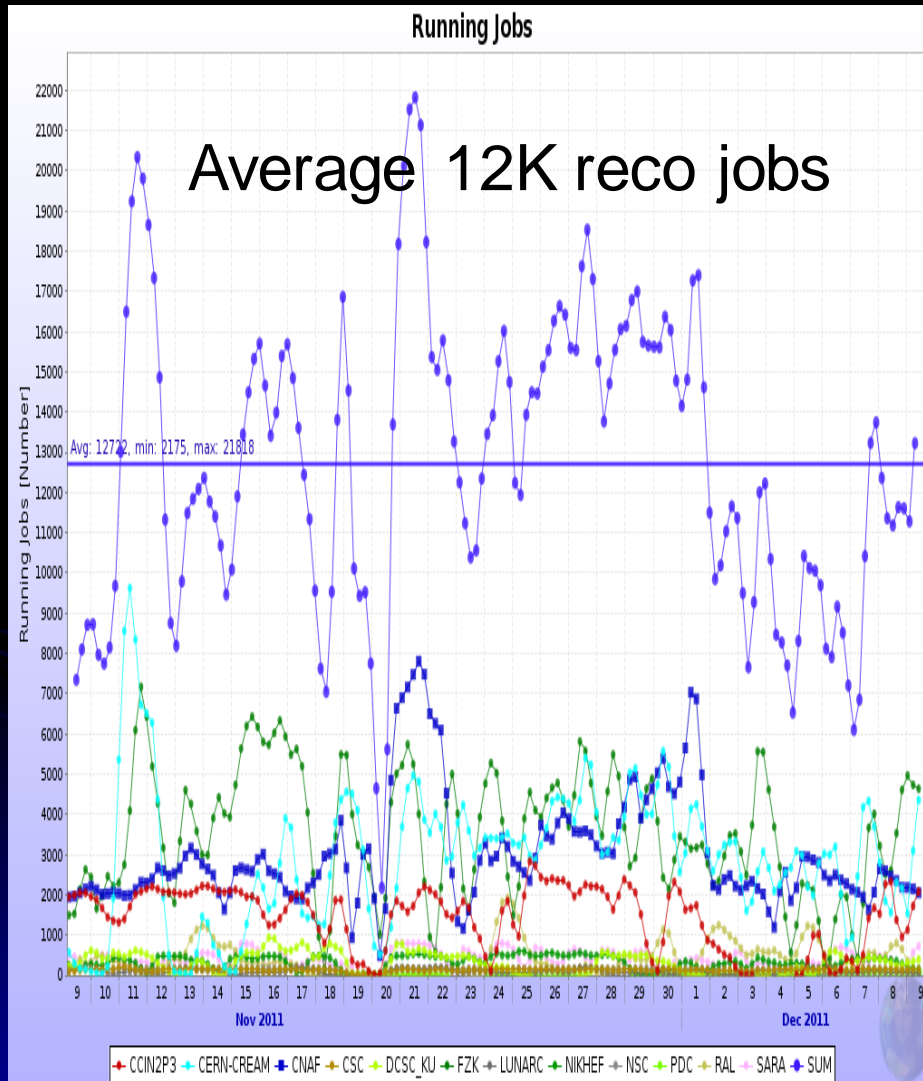


RAW replication

SEs average transfer rates



Pass 1 reconstruction



Exceptional performance of T0/T1 centres, allowing for good quasi-online data processing, QA, calibration

98.2%

129,120,110

All di-muon spectrometer data processed and analyzed, $\frac{1}{4}$ of barrel spectrometer data processed

Services summary

- **NTR** (as per daily operations meetings)
- Minor hiccups, very good support at all centres
- Running out of disk
 - Added large disk SE at RAL (working)
 - Cleanup of replicas (of older productions) at all centres
- The Grid infrastructure is mature and stable

2011 H1 processing

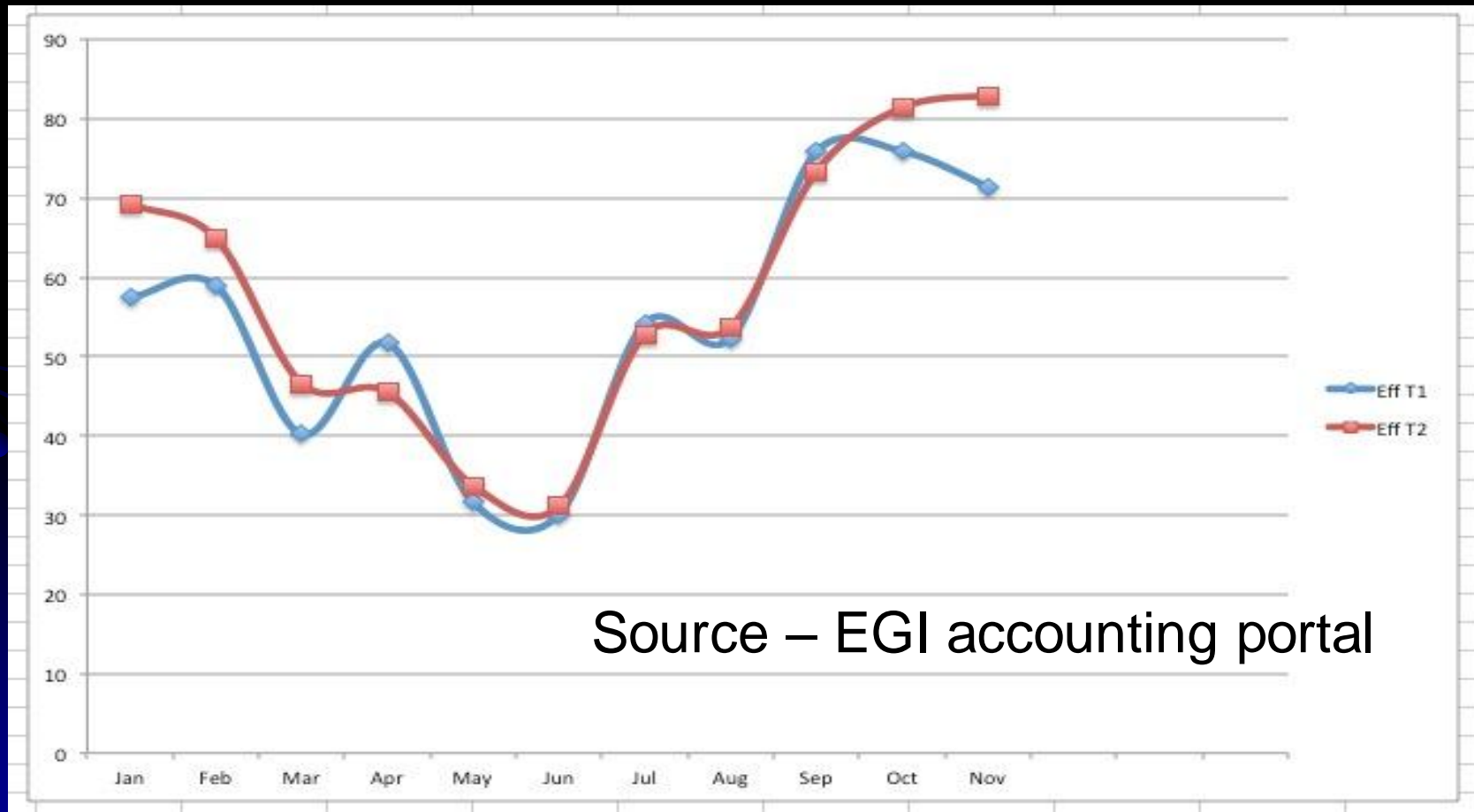
- Memory overruns
 - Higher luminosity (fantastic LHC delivery) – more pileup than expected/simulated
- Full HLT compression - allowed to collect 3x more events for the same output data size
 - This however required major reworking of the code to gain processing speed
- Pass2 over full data sample (after calibration) – starts in few days

Efficiency update

- Contributing factors
 - Conditions data system overload
 - High number of end-user analysis jobs with varying efficiency
 - Some storage elements overload
- Remedies
 - Strengthen cond. data infrastructure, Including query cache and per job OCDB snapshots
 - Include more of the user analysis in groups (analysis trains)
 - Work with every site individually to optimize SE configuration and access patterns

Effect

- The CPU/Wall efficiency has risen steadily, at T2s above the WLCG threshold



SLC6

- We support the migration as soon as possible at all centres
 - No issues or delays
- Already seen centres using SL6
 - For example SE servers
- We are also OK with a more aggressive move to latest Ubuntu

Summary

- The 2011 HI period was exiting and very rewarding time for ALICE
- Many thanks to the T0/T1/T2 centres for the excellent performance and support
- The processing of HI data is ongoing (Pass2 about to start), MC and user analysis at stable levels
- ALICE is happy ☺

The image shows a top-down view of the ALICE detector's event plane. At the center is the interaction region, depicted with concentric circles representing the detector's internal layers. Radiating from this center are thousands of tracks, colored in blue, cyan, and red, which represent the paths of particles produced in a collision. The tracks are most dense near the center and become sparser as they move towards the outer edges of the detector. The entire visualization is contained within an octagonal frame, which represents the physical geometry of the ALICE experiment.

Seasons Greetings from ALICE