# ALICE Q-Report

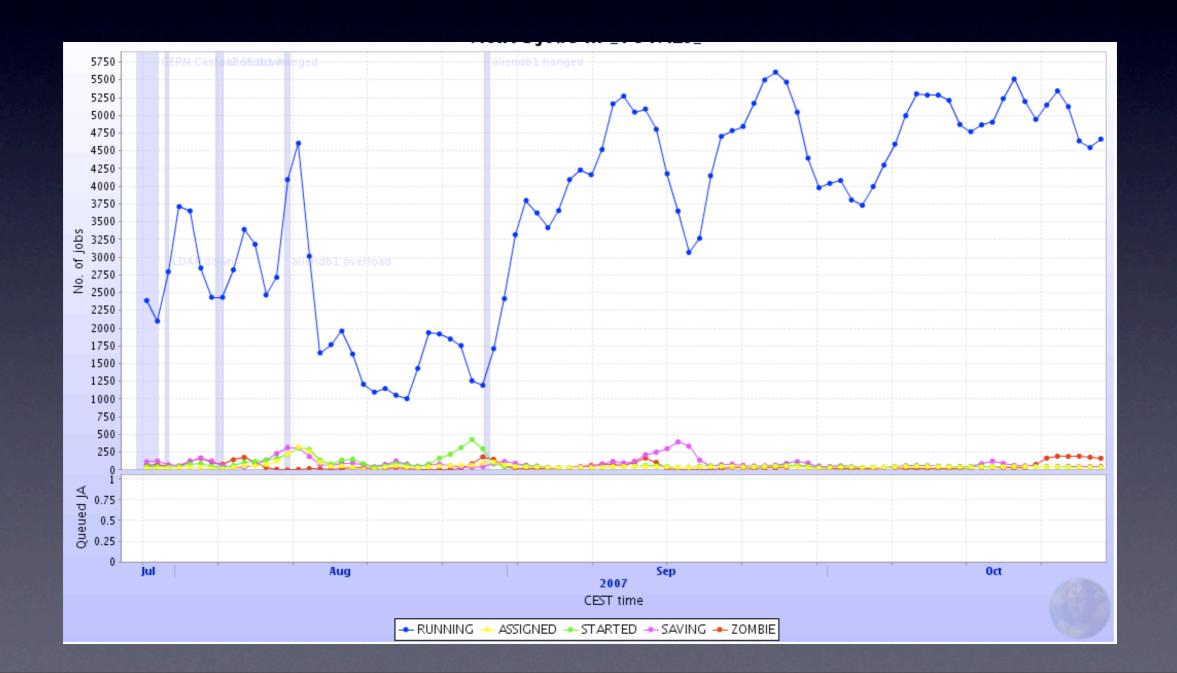
2007Q3

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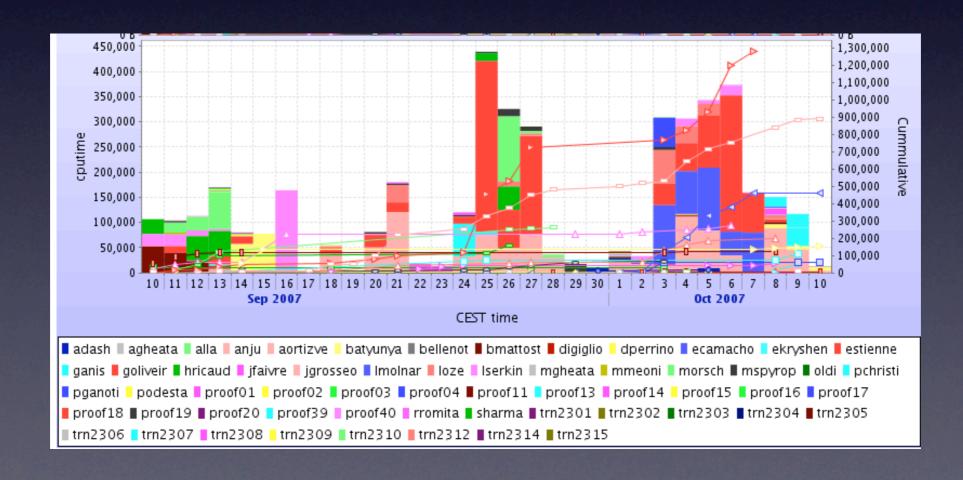
### Physics Data Challenge 07

- Excellent stability of central services
- Sites deliver > 90% of pledged resources
- New sites joining (Wuhan, Hiroshima)



### CAF

- CAF with PROOF is in production
- Under development:
  - disk quota and fair share CPU target for groups
  - data staging with PROOF Datasets

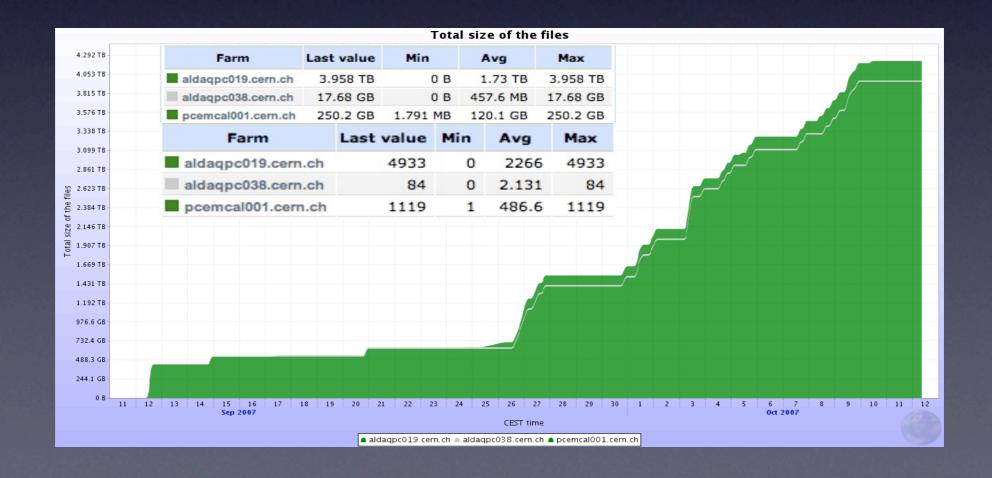


# Full Dress Rehearsal milestones

- Phase I: DEC-2007
  - Cosmic rays data taking, calibration runs from detector commissioning (started for some detectors in lab)
  - Registration in CASTOR2 + Grid File Catalog (OK)
  - Replication T0->T1s synchronous with data taking using FTD/FTS utilities (tested with FTS v.2)
    - no critical dependance on the SRM version
  - Asynchronous replication to CAF (OK)
  - Pass I reconstruction on Grid at T0 (OK)
  - Interactive expert analysis with PROOF on the CAF (OK)

### Full Dress Rehearsal Status Phase I

- Three detectors taking cosmic data on surface
  - DAQ registration working 100%, no failure in one month
- Next
  - commissioning exercise will start in situ in December
  - Generated data fed into the DAQ data flow to reach nominal pp data rates



### Full Dress Rehearsal Status Phase I

- Continuous replication T0->TI pending
  - Current RAW rate from detectors is 0.2 MB/s (target 60MB/s for pp)
  - Need to re-establish the tape storage at T1's
  - Replication with nominal rate will be done with injected RAW data
- Pass I reconstruction
  - Detector experts driven reconstructions on the Grid
  - Rapid changes in the reconstruction software required makes automatic processing difficult

# Full Dress Rehearsal milestones

- Phase II: FEB-2007
  - All elements of Phase I
  - Second pass reconstruction at T1s
  - Collection and registration of conditions data from DAQ, ECS, DCS, HLT during commissioning
    - On line detector algorithms in DAQ/DCS/HLT (OK)
    - Data transit through File Exchange Servers (OK)
    - Shuttle registers condition objects and metadata in Grid FC (OK)
- Phase III: April-2008
  - All elements of Phase I and Phase II
  - Gradual inclusion of online Detector Algorithm and QA

#### CCRC'08 Feb/May 2008

- ALICE requirements:
  - Work Load Management
    - Hybrid mode (LCG RB or gLite WMS) OK
    - To use gLite WMS, we need gLite VO Box suite
  - FTS service from T0-T1s
    - no constraint on the SRM version
  - xrootd interfaced with all supported gLite SE's

#### CCRC'08 Feb/May 2008

- ALICE readiness:
  - FTS/SRM not tested at nominal transfer rates
  - Grid services for reconstruction and simulation at T0-T1-T2
    OK
  - SE with xrootd
    - dCache in production (GSI, CCIN2P3, SARA, NDGF, FZK)
    - CASTOR2 with xrootd in advanced testing phase
    - DPM prototype under test at CERN and Torino

## Resources

- Progress in using the CPU resources allocated to ALICE
- Storage in external SE is gradually becoming operational
- Deficit problem not solved with new contributions

Pledged by external sites versus required (new LHC schedule) all													
		2007	2008		2009		2010		2011		2012		
		T1	T2										
<i>C</i> PU	Requirement (MSI2K)	3.2	4.6	10.1	12.5	19.9	14.3	23.5	25.0	30.5	32.5	39.7	42.2
	Missing %	-45%	-3%	-31%	-36%	-47%	-18%	-39%	-38%	-53%	-52%	-64%	-63%
Disk	Requirement (PB)	1.2	0.7	4.1	1.7	6.8	4.0	12.0	4.3	16.6	5.6	22.4	7.3
	Missing %	-38%	6%	-34%	6%	-37%	-21%	-50%	-1%	-64%	-24%	-73%	-42%
MS	Requirement (PB)	1.4	-	5.9	-	12.6	-	20.0	-	27.3		34.1	-
	Missing %	-24%	-	-34%	-	-37%	-	-41%	-	-57%	-	-66%	-

### Milestones

- MS-II8 sept 07:AliRoot and analysis package release for day I
  - postponed to May 2008
- MS-II9 oct 07:AliRoot release for detector commissioning
  - done
- MS-I20 oct 07: MC raw data for FDR
  - ongoing
- MS-121 oct 7: on line DA and shuttle integrated in DAQ
  - postponed to February 2008 (FDR Phase II)
- MS-122 oct 07: FDR Phase II
  - postponed to February 2007
- MS-123 oct 7: online analysis with CAF
  - done

### New Milestones

- MS-124 Feb. 08: Start of FDR Phase II
- MS-125 Apr 08: Start of FDR Phase III
- MS-126 Feb 08: Ready for CCRC 08
- MS-127 Apr 08: Ready for CCRC 08