Monitoring at CC - part II July 5, 2011

### Monitoring Requirements From CAF

- Discussed at last CAF meeting
- Summarized in a document attached to the agenda's page
- Document sent to Pierre
- Below a few examples of what is available at some T1 sites
- Monitoring is vital for efficient operation, both for the site and for the Squad

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## Monitoring - I

- Better monitoring of key component needed
  - FTS
  - dCache / SRM
  - Batch
- We are ready to contribute by suggesting parameters to be instrumented

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### Monitoring - II

- CPU monitoring/accounting:
  - Consumption T1, T2, T3 in form of CPUs, Not number of jobs
    - Available : sum T1+T2+T3 CPU consumption vs time available
  - Compared to pledge values for T1 & T2
- FTS monitoring:
  - History and throughputs in graphical format

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### Example Of Monitorings

- FZK site monitoring
  - http://grid.fzk.de/monitoring/main.html
- PIC site monitoring
  - http://ganglia.pic.es/ (passwd needed)
- RAL FTS monitoring
  - http://ganglia.gridpp.rl.ac.uk/cgi-bin/ganglia-fts/fts-page.pl
- BNL throughput monitoring
  - http://www.usatlas.bnl.gov/dq2/throughput/

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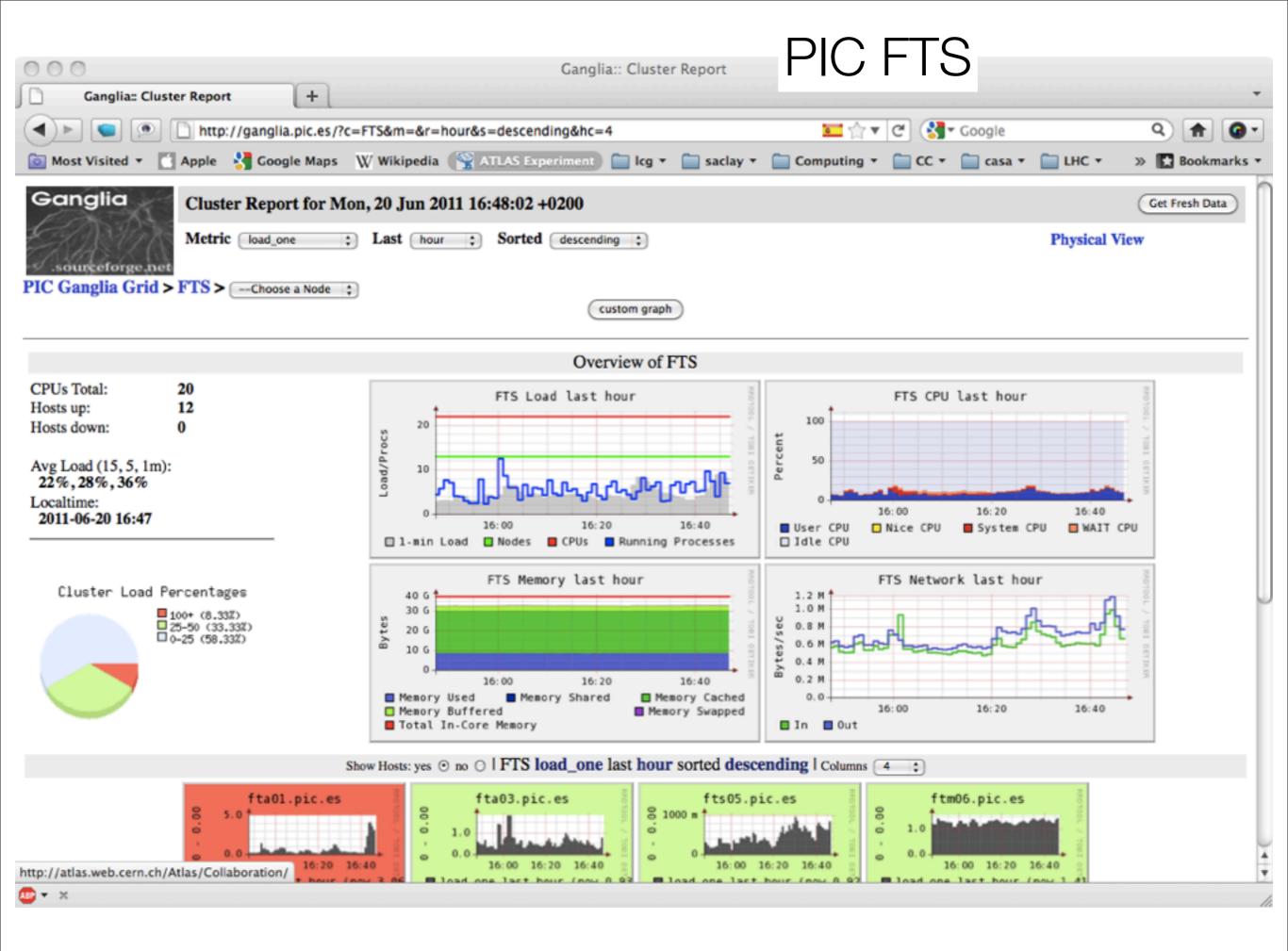


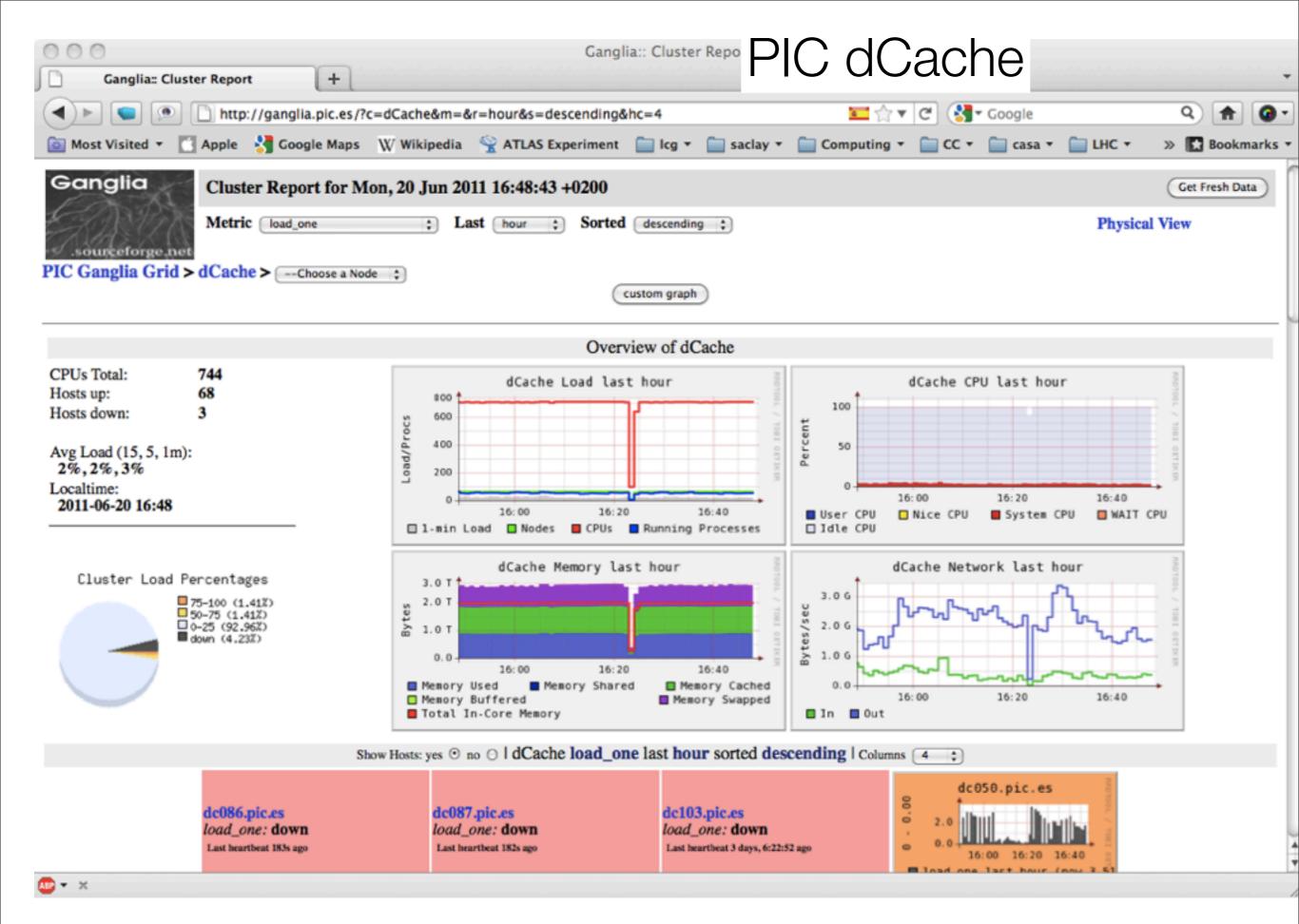
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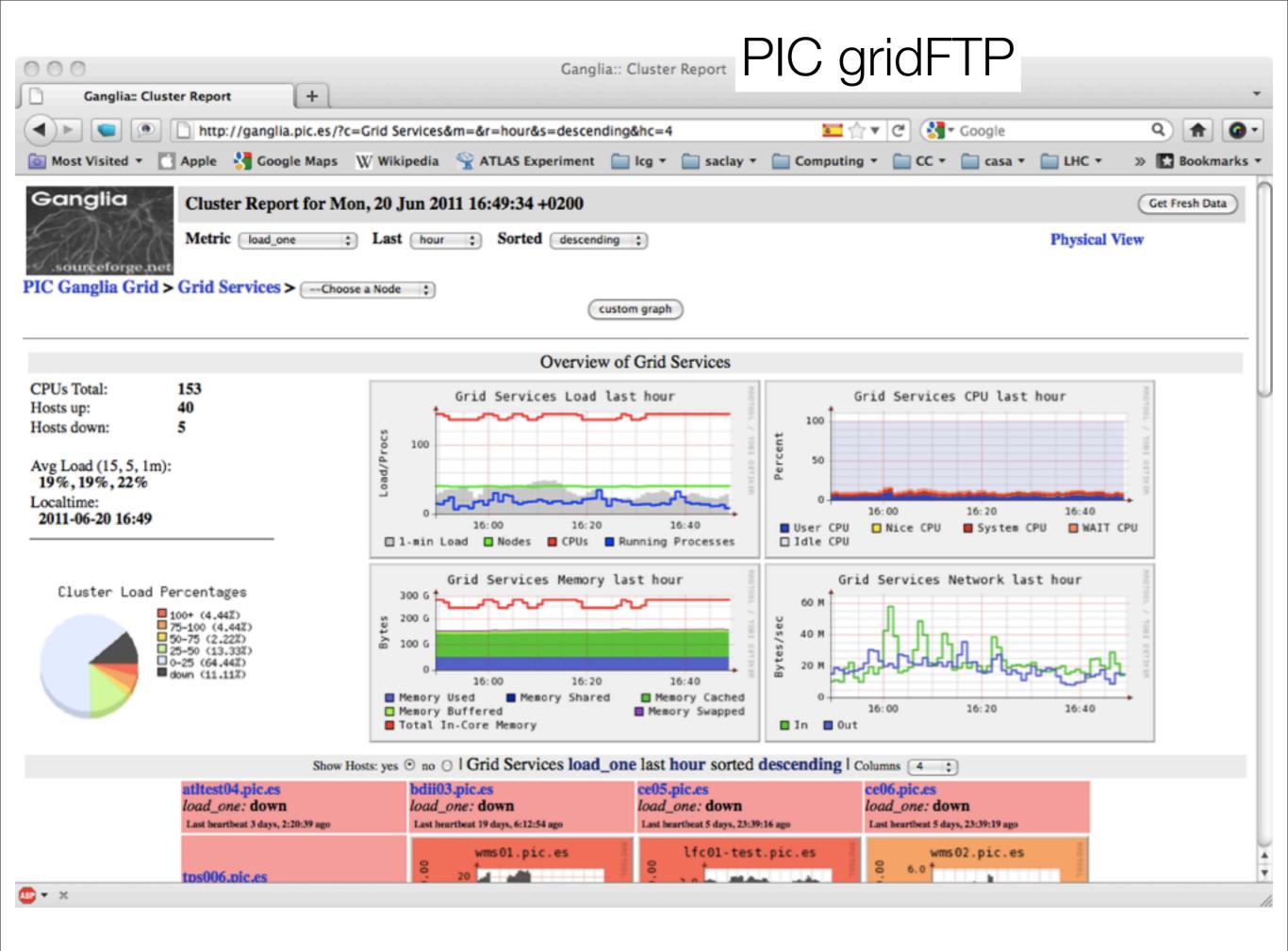
#### PIC

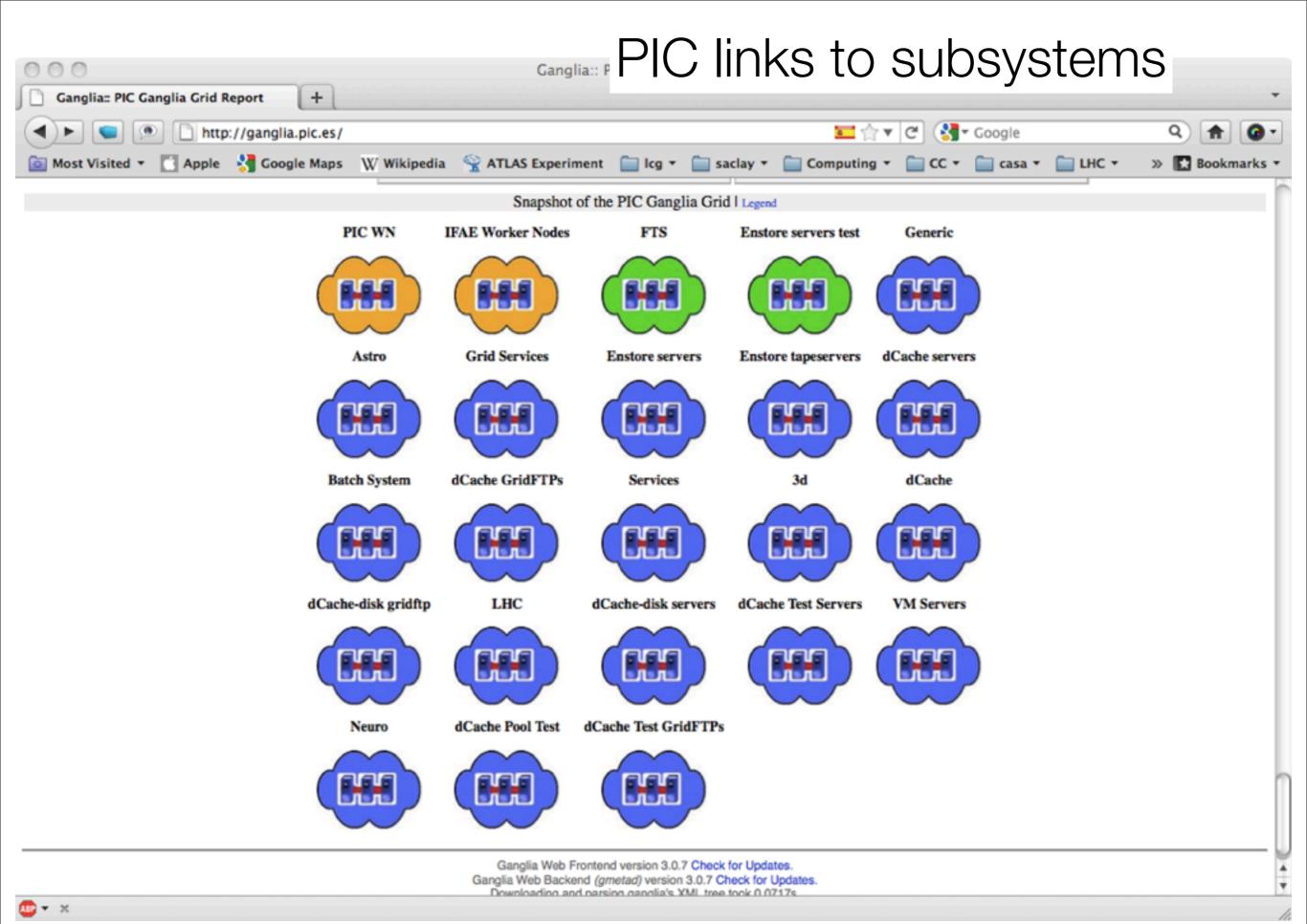


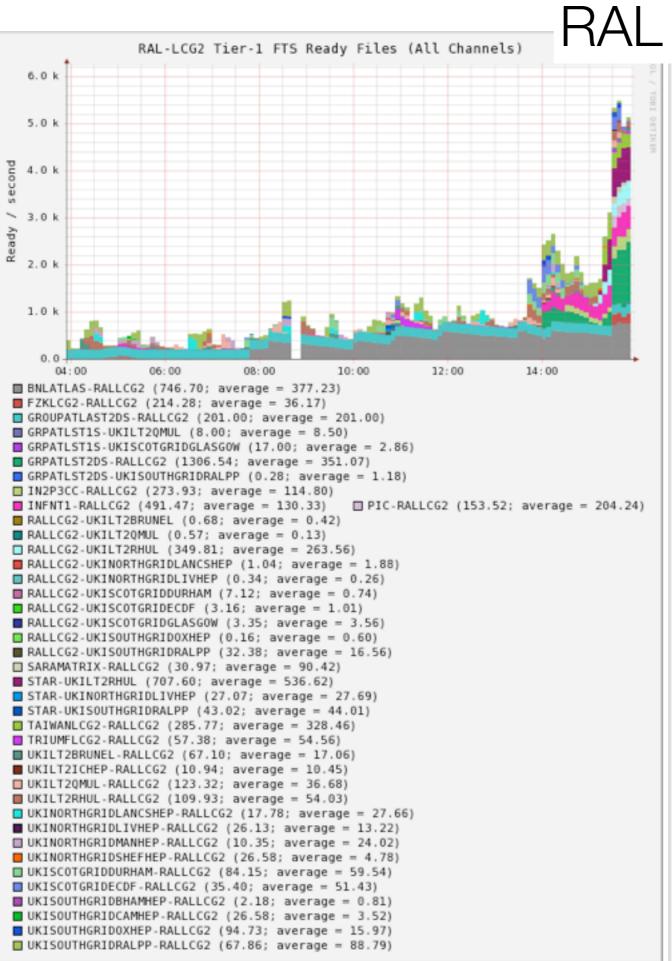
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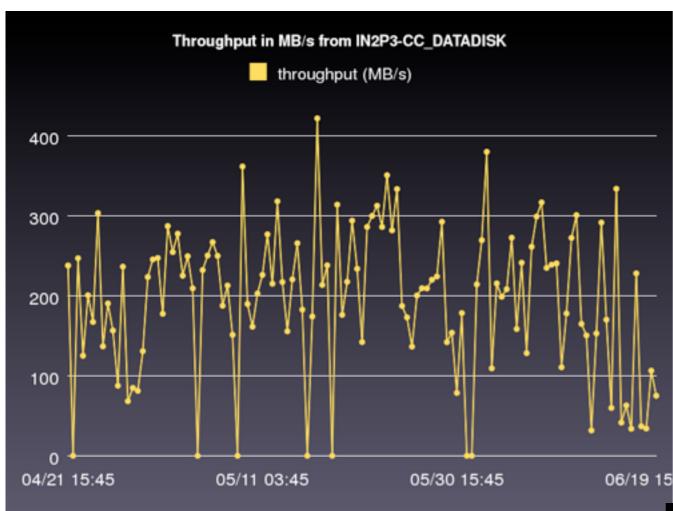




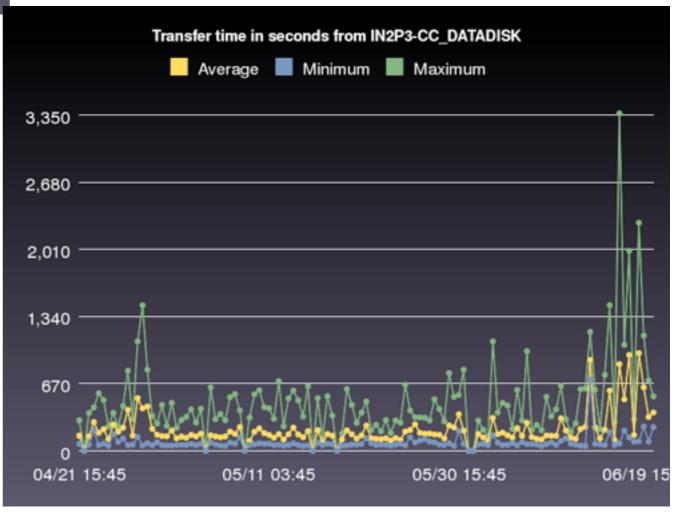


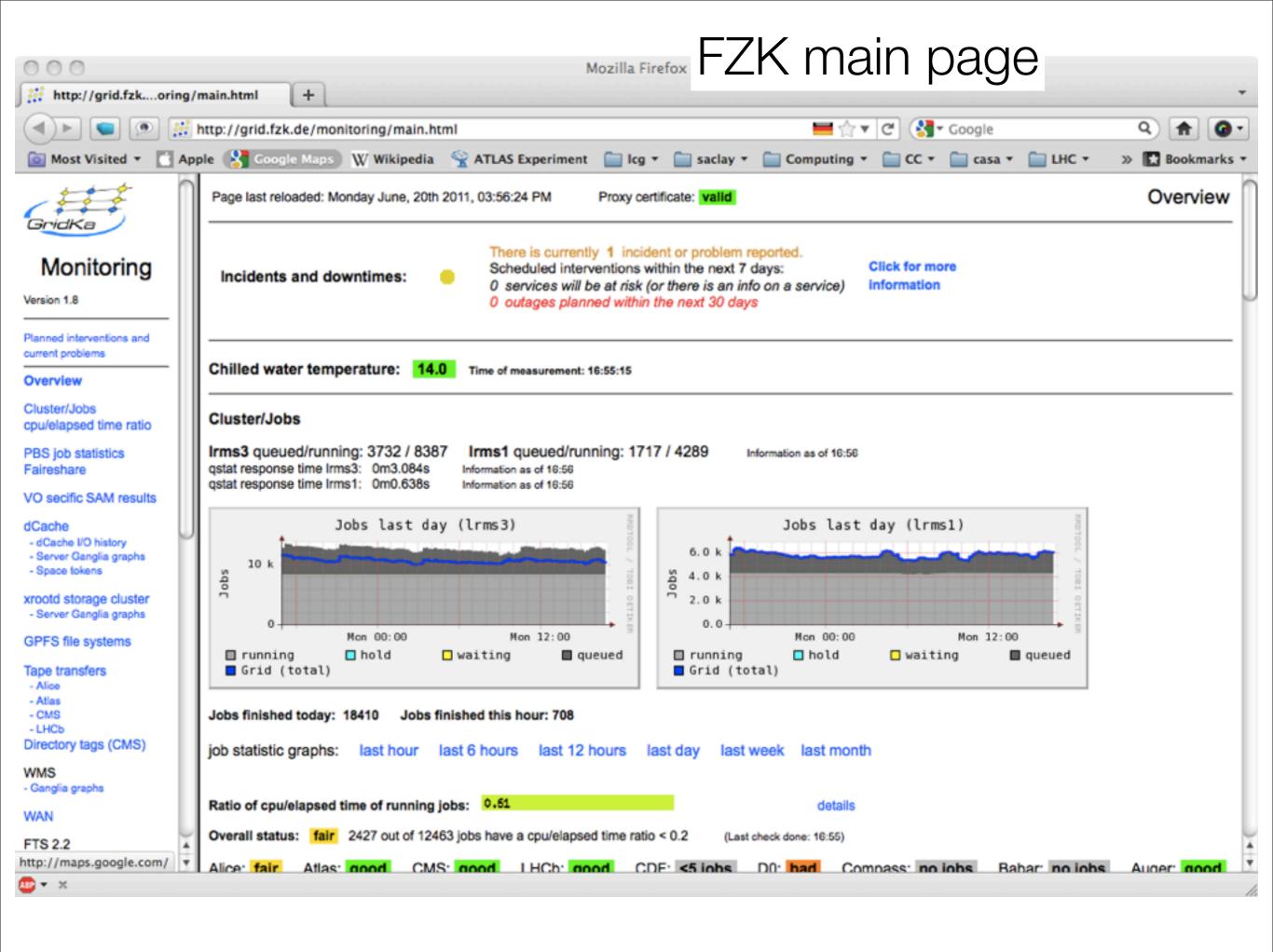
RAL-LCG2 Tier-1 FTS Bytes Transfered (All Channels) 500 M 400 M 300 M 200 M 100 M 04:00 06:00 08:00 10:00 12:00 14:00 104.33M □ Total: BNLATLAS-RALLCG2 (48.41M; average = 40.82M) FZKLCG2-RALLCG2 (20.70M; average = 31.47M) GRPATLST1S-UKILT2QMUL (2.02M; average = 2.81M) GRPATLST1S-UKINORTHGRIDSHEFHEP (267.57; average = 267.57) GRPATLST1S-UKISCOTGRIDGLASGOW (4.79M; average = 3.12M) GRPATLST2DS-RALLCG2 (5.97M; average = 19.05M) IN2P3CC-RALLCG2 (7.20M; average = 4.81M) INFNT1-RALLCG2 (27.02M; average = 34.26M) NDGFT1-RALLCG2 (17.90k; average = 18.92M) ■ NIKHEFELPROD-RALLCG2 (14.11M; average = 14.79M) □ PIC-RALLCG2 (10.75M; average = 3.83M) RALLCG2-UKILT2BRUNEL (853.05k; average = 1.83M) RALLCG2-UKILT2ICHEP (12.07M; average = 3.14M) RALLCG2-UKILT2QMUL (850.46k; average = 2.03M) RALLCG2-UKILT2RHUL (14.80M; average = 2.01M) RALLCG2-UKINORTHGRIDLANCSHEP (268.55k; average = 21.63M) RALLCG2-UKINORTHGRIDLIVHEP (51.21k; average = 1.81M) RALLCG2-UKINORTHGRIDMANHEP (331.47k; average = 957.48k) RALLCG2-UKINORTHGRIDSHEFHEP (1.12M; average = 843.30k) RALLCG2-UKISCOTGRIDDURHAM (286.11k; average = 1.45M) RALLCG2-UKISCOTGRIDECDF (6.56M; average = 3.32M) RALLCG2-UKISCOTGRIDGLASGOW (79.07k; average = 2.89M) RALLCG2-UKISOUTHGRIDBHAMHEP (569.01k; average = 1.50M) RALLCG2-UKISOUTHGRIDCAMHEP (44.76k; average = 802.37k) RALLCG2-UKISOUTHGRIDOXHEP (134.28k; average = 8.31M) RALLCG2-UKISOUTHGRIDRALPP (179.04k; average = 1.22M) SARAMATRIX-RALLCG2 (15.70M; average = 4.19M) STAR-UKILT2RHUL (7.58M; average = 11.94M) STAR-UKINORTHGRIDLIVHEP (17.63M; average = 14.02M) STAR-UKISOUTHGRIDRALPP (10.02M; average = 7.97M) TAIWANLCG2-RALLCG2 (5.57M; average = 3.29M) TRIUMFLCG2-RALLCG2 (7.44M; average = 12.85M) UKILT2BRUNEL-RALLCG2 (1.43M; average = 2.43M) UKILT2ICHEP-RALLCG2 (1007.58k; average = 1.60M) UKILT2QMUL-RALLCG2 (3.28M; average = 2.89M) UKILT2RHUL-RALLCG2 (8.89M; average = 2.69M) UKINORTHGRIDLANCSHEP-RALLCG2 (4.06M; average = 3.32M) UKINORTHGRIDLIVHEP-RALLCG2 (1.30M; average = 2.38M) UKINORTHGRIDMANHEP-RALLCG2 (1.49M; average = 2.70M) UKINORTHGRIDSHEFHEP-RALLCG2 (9.46M; average = 1.93M) UKISCOTGRIDDURHAM-RALLCG2 (440.54k; average = 3.53M)

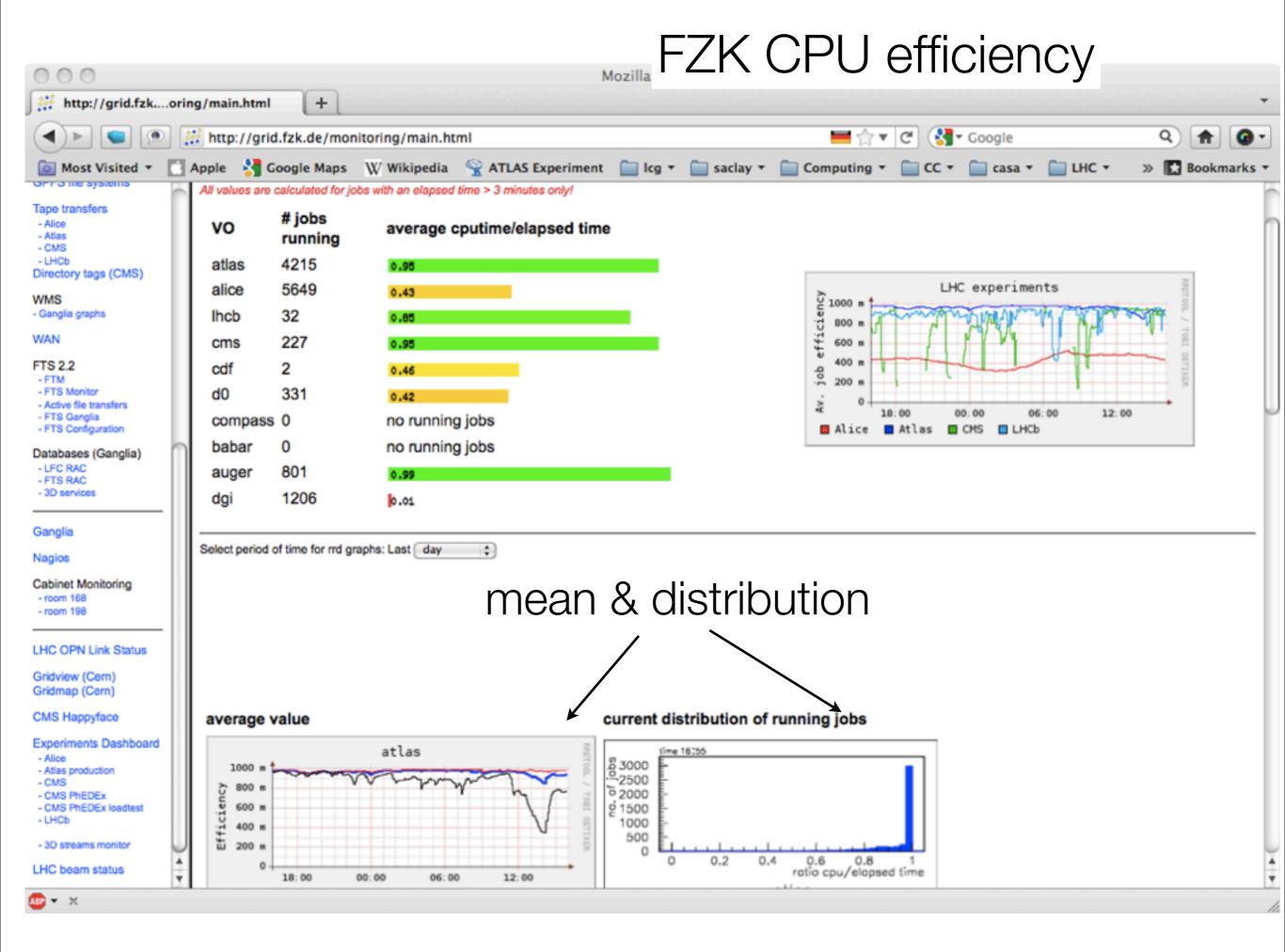
UKISCOTGRIDECDF-RALLCG2 (13.25M; average = 5.29M)
UKISCOTGRIDGLASGOW-RALLCG2 (37.63k; average = 3.59M)

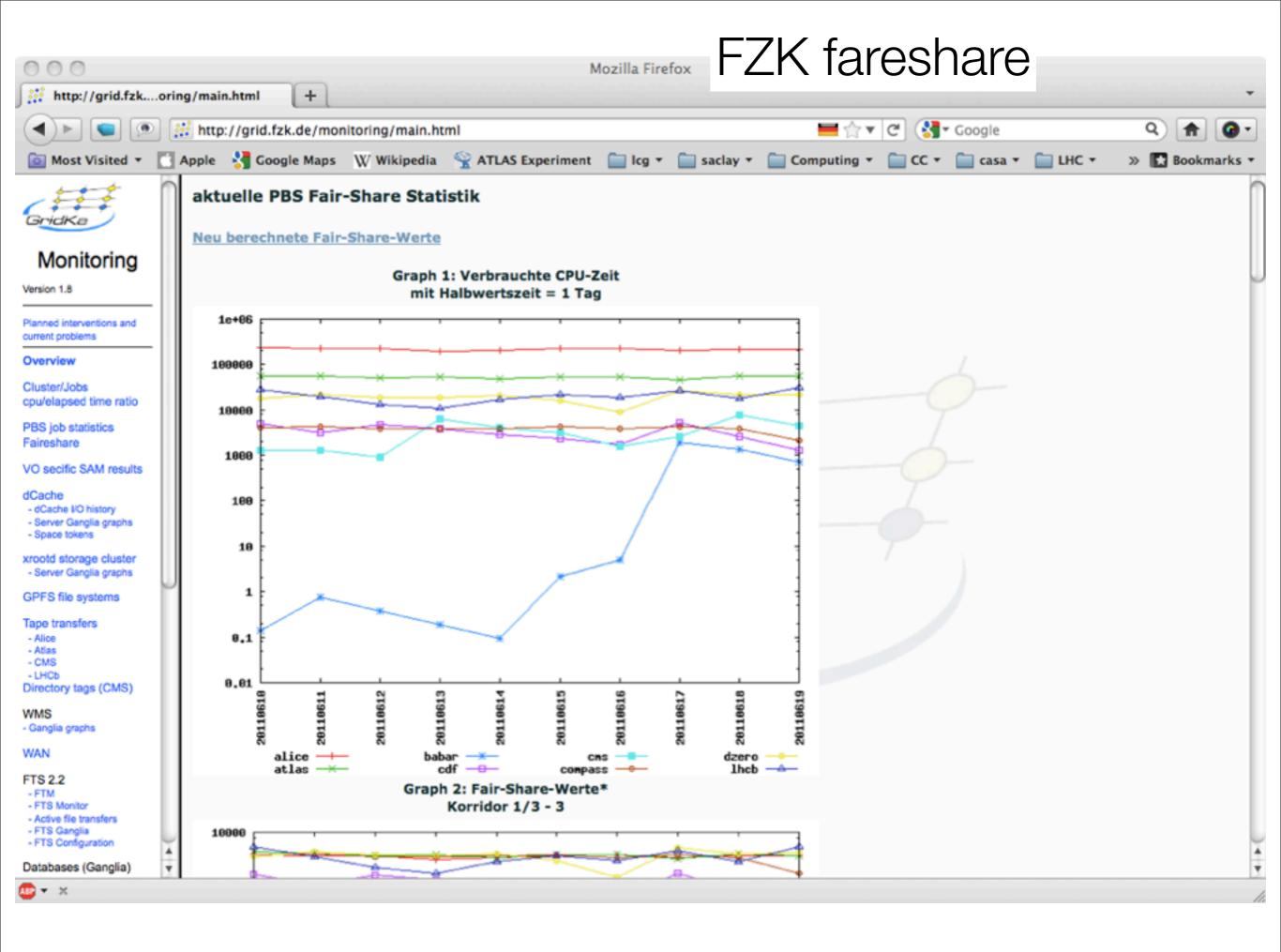


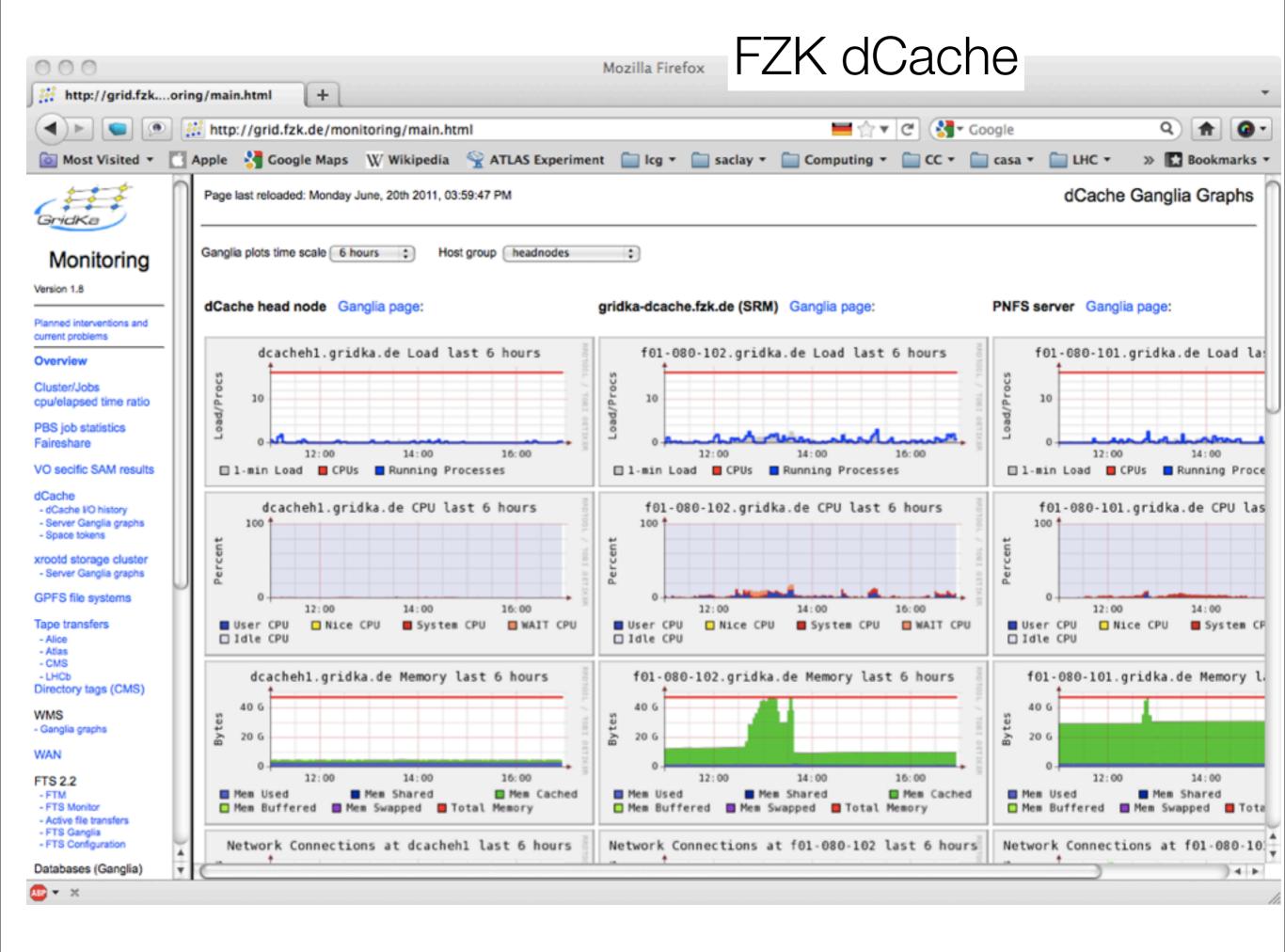
# BNL throughput











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etc...