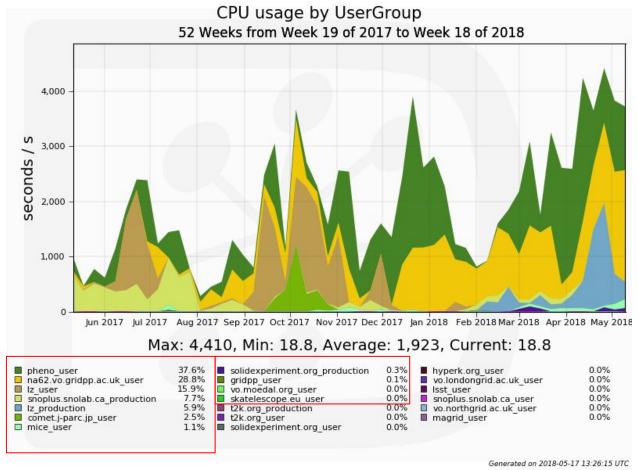
# GridPP DIRAC Status Report

Daniela Bauer & Simon Fayer



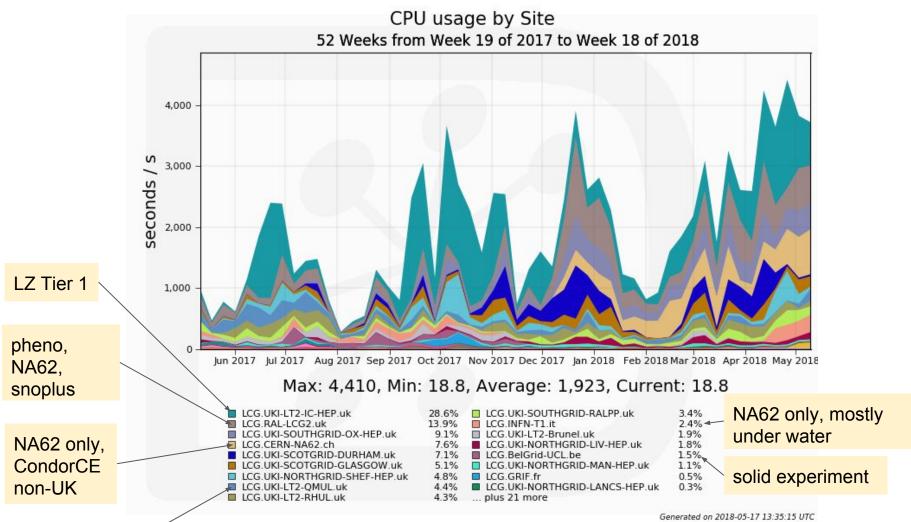
# No news is good news?

#### Wrt to last year our user base is basically unchanged:





### Where do the jobs go?



Imperial College London

the first GPU on the grid in the UK



#### What did we do all year? (1)

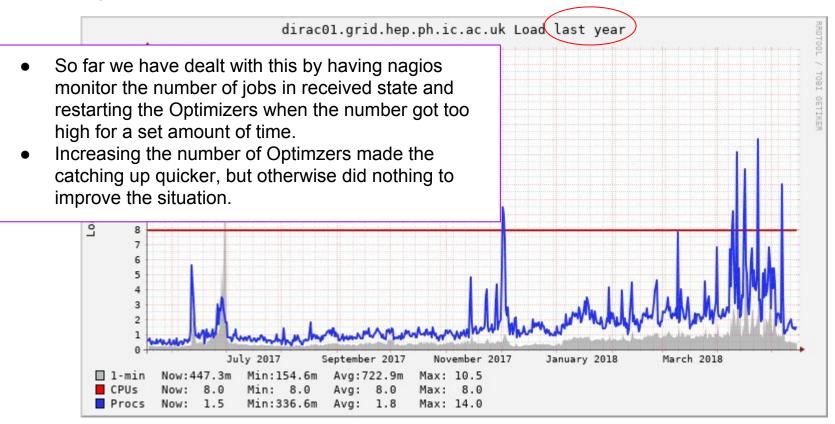
- As Federico said: "Administration is a daily work"
  - Especially if your Optimizers keep hanging
- (multiple) Tag(s):
  - Use cases:
    - Tag: "HighMem": High memory queue for LZ at RALPP, passes XRSLExtraString with 8GB memory requirement to ARCCE.
    - Tag: "gpu": GPU at QMUL, passes ExtraJDLParameter GPUNumber= 1
  - Now works.
- Multi-core: (Just) one bug fix to ensure multicore jobs don't accidentally end up in single core slots.
  - Doesn't seem to spontaneously work in v6r20 :-(



# GridPP DIRAC: invalid action proposal

(for everyone who wasn't at the last BiLD meeting)

Increased usage of the GridPP DIRAC server caused (mainly) the Optimizers to hang: manifesting itself as a persistent **high load** on the monitoring and lots of jobs in the received state. (The load itself is not the problem.)



oad average

Imperial College London

v6r17: 27 March 2017

v6r19: 16 Nov 2017 (non-RSS version for multi-VO DIRAC ?)



### Emergency Fix: remove default group lookup

Test example: 50 threads looking at the SiteMask from the WMSAdministrator service (similar to what the Optimizer does):

Without fix: 12m37.166s

After modifying getBaseStub: 1m4.689s

This patch breaks the forwardDISET RMS Operation: used for fail-over in some cases.

But: Our DIRAC server has been running happily ever since for the first time since upgrading to v6r19.

Fixing this properly is our highest priority right now.



#### What did we do all year ? (2)

#### Condor CE:

- First instance of a CondorCE in GridPP DIRAC (for NA62).
- The DIRAC side of the deployment was fairly straight forward.
- The same cannot be said about the CERN side.
- No information about CE/queues available in either bdii or GOCDB:
  - "the bdii is going away", so we are back to a grid black market?



#### VAC/Vcycle - Rogue pilots....

- We now have a module that can read VAC configurations from the GOCDB.
- Our usage of VAC sites was a rather mixed experience.

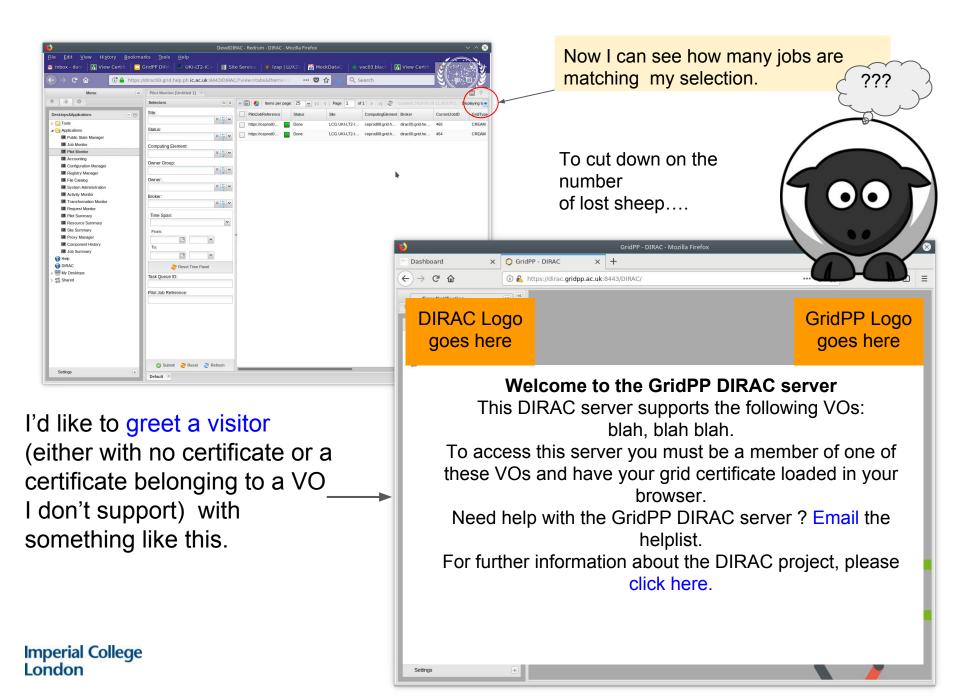




#### What do we want to learn from this workshop?

- (Hopefully by now we've achieved some of it :-)
- Transformation system:
  - We've been asked to look into it for SKA.
  - Just want to get started.
- RSS for multi VO DIRAC:
  - It would be nice to sort this once and for all.
  - User would like a way to discover sites/storage element that are enabled for their VO.
  - Apparently I'm not the only one who has this on her wishlist.
- Web improvements (sometimes it's the small things that matter)
  - I don't have a wide screen monitor, I need a scroll bar.
  - Present a helpful page to users accessing my DIRAC web interface without a certificate.





#### Conclusions

It's business as usual (and turtles all the way down?)



