Allocation of HPC time via Dirac

UKMHD has 3 separate projects on Dirac

1. Solar interior
2. Solar atmosphere (3.5M CPU hours per quarter)
3. Astrophysical MHD

All 3 have similar allocations on either Durham, Leicester or Cambridge

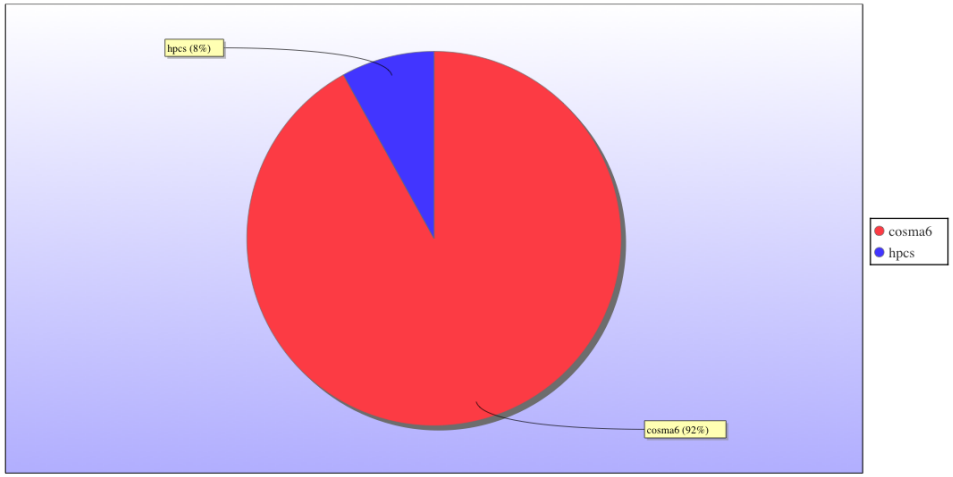
UKMHD 2018 – St Andrews, 26 – 27 March, 2018
Registration via BAMC website.

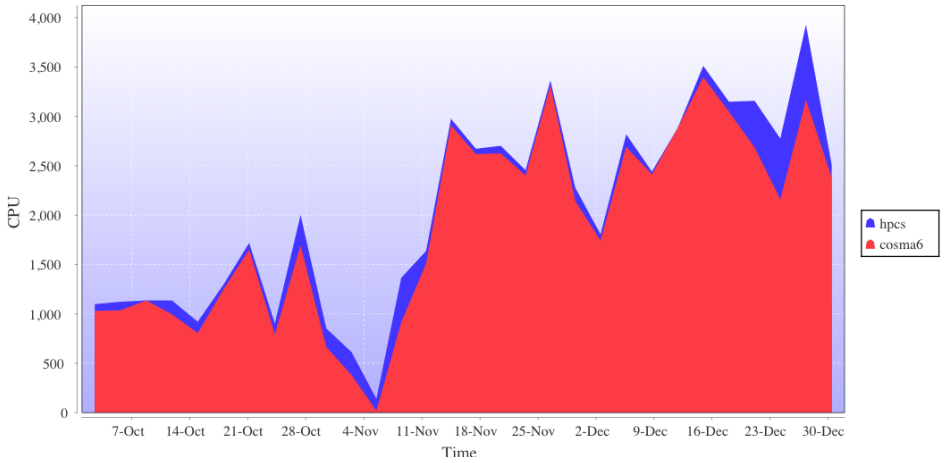
Overall Usage

A total of 962 jobs were submitted on DiRAC resources in project dp010 (MHD) during the period Q4 2017.

Project	Usage / CPUh (Oct 2017)	Usage / CPUh (Nov 2017)	Usage / CPUh (Dec 2017)	Usage / CPUh (Total)
dp010 - MHD	917923:28:48	1337598:44:16	2216742:12:32	4472264:25:36
Project	**Jobs (Oct 2017)**	**Jobs (Nov 2017)**	**Jobs (Dec 2017)**	**Jobs (Total)**
dp010 - MHD	309	327	326	962

Time use broken down by DiRAC resource.





UKMHD 2 – Solar atmosphere

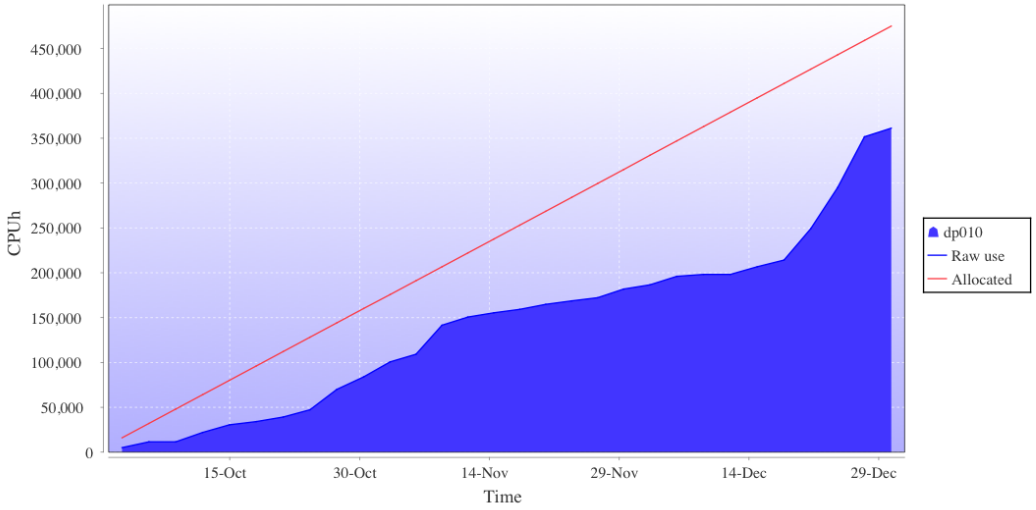
Access to
Durham (cosma6 - red) 2.95M CPU/quarter
and
Cambridge (HPCS - blue) 475K CPU/quarter

Cosma6 has 11 main users plus many registered

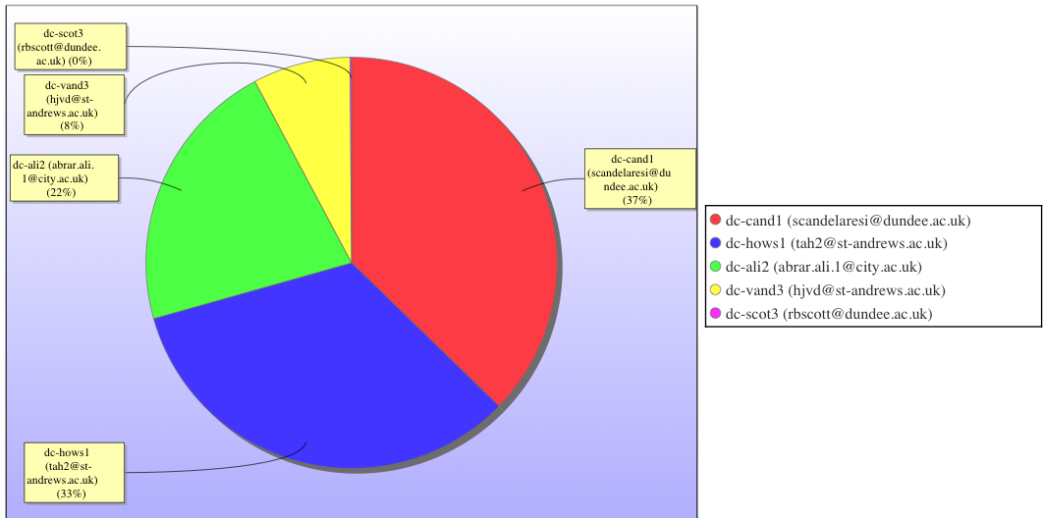
HPCS has 5 main users
(2 Dundee, 2 StA, 1 City)

hpcs Usage

A total of 175 jobs were submitted on hpcs in project dp010 (MHD) during the period Q4 2017.

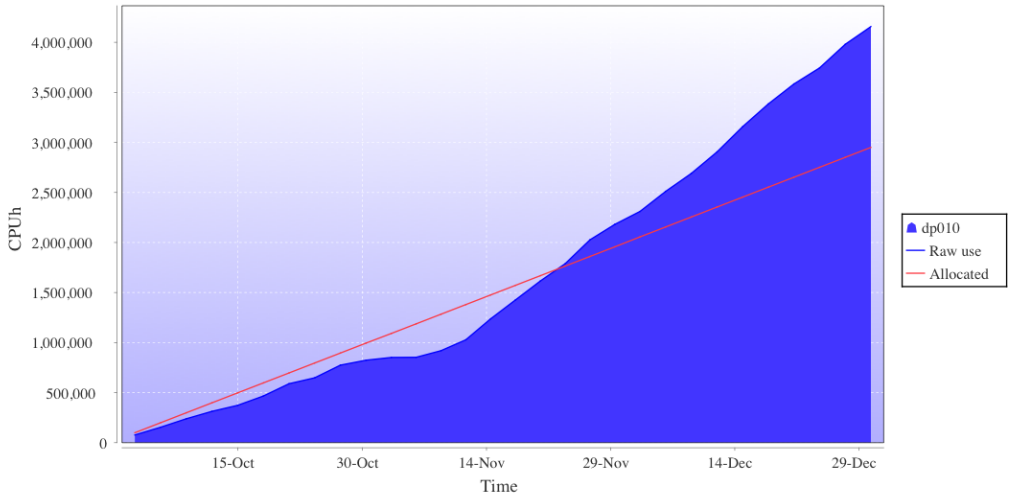


Time use broken down by project member.

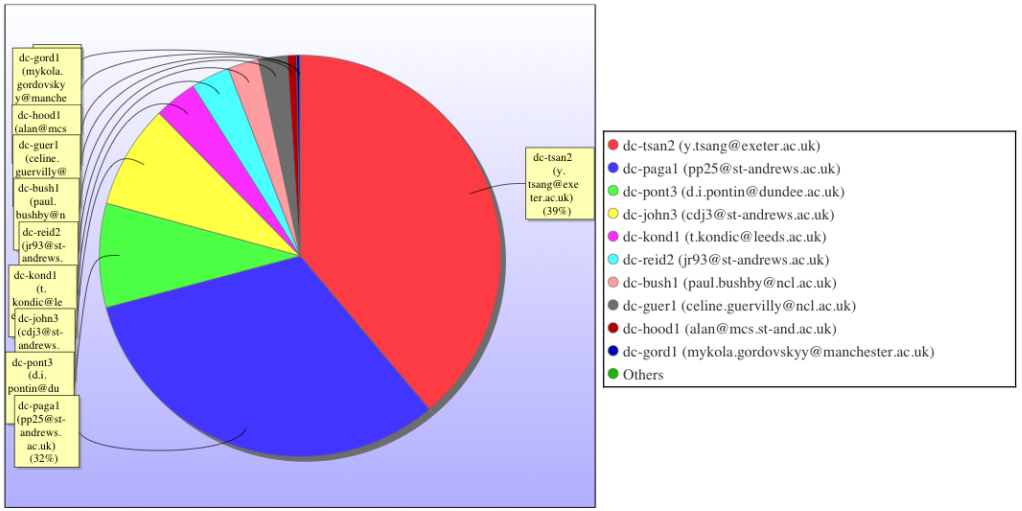


cosma6 Usage

A total of 787 jobs were submitted on cosma6 in project dp010 (MHD) during the period Q4 2017.



Time use broken down by project member.



Usage is similar to the other UKMHD groups.

There are still many HPC users who don't (or can't get the resources to) use Dirac.
STFC do not provide enough UK resources for all researchers

Universities often have their own facilities that STFC don't pay for! Should grants cover this if not enough Dirac resources?

Insufficient data storage at Dirac. Insufficient resources to store locally. Should grants cover local storage?

Post-processing is not easy on Dirac. Should this be done locally?