

Minutes – Yeti Operating & Executive Committees Meeting
Monday, March 7, 2016

Attendees: Greg Bryan, Rob Lane, George Garrett, Dali Plavsic, Alan Crosswell, Alex Bergier, Marley Bauce, Roslyn Hui, Ingrid Richter, Tian Zheng

Usage Report

Usage peaks at approximately 52,000 core-days per month, with 2,600 cores on the system. Thus, the theoretical maximum is approximately 75,000 core-days per month. We previously capped-off at 60,000, but now we cap-off at 52-53,000. There is no clear explanation why, except for potential maintenance period disruptions that may make it more difficult to reach 100% capacity.

Many users are Infiniband users, and thus their jobs do not care whether there are users of other nodes, and will just wait until Infiniband nodes are available.

In January-February 2016, there have been:

- 1,159,466 Batch jobs
- 711 GPU jobs
- 824 Infiniband jobs
- 1,144 Interactive jobs
- 54 Special jobs

(Full usage reports can be found on corresponding PowerPoint slides)

Rob emphasizes the importance of inter-group communications, as what one user does will affect the usage abilities of other groups. Groups are encouraged to utilize the Yeti contact lists.

The majority of groups are utilizing a share roughly in line with their target share, although there are some differences; for example Stats is over by 2%, ChemE is over by 7.77%, Electrical Engineering is over by 4.61%, Data Science is under by .04%, Social Science Computing Cluster is under by 3.8%, and CCLS is under by 8.7%.

Home Directory Quotas

Home directory quotas have increased for **all** Yeti users; thus, the quota is now 5 Gigabytes, although some users currently have more than 5GB (this will be corrected soon, though). The same home directories are also on Cunix.

Other Topics

Rob makes group aware that RCS does do Information Sessions, wherein HPC support staff can visit individual teams with slides, hand-outs, etc. Tian Zheng asks whether RCS has “open hours/office hours” wherein interested parties can stop by unannounced. Rob replies that RCS will further consider this option, which is difficult given RCS’ Studebaker location.

Greg echoes that RCS’ relationships are not consistent across all users; Rob agrees that the group can reach out and increase customer service for all groups, not the “usual suspects.” Tian suggests that increasing outreach activities may help to increase usage of the Free Tier. Rob notes the workshops currently being held with the Libraries; Tian suggests that the Libraries can help to facilitate future community development

events. Greg identifies that such networking events fall better under the purview of SRCPAC; Greg will speak with Kathryn Johnston about having SRCPAC administering such events.

We must also collect publication citation information so as to demonstrate value to senior leadership. Rob encourages users to report publication data to Marley Baucé (mb3952@columbia.edu).

Yeti is working with its first class this semester – Bioinformatics. RCS is viewing new interactive jobs on the Education Tier. If anyone knows of courses with computational research elements, please email to rcs@columbia.edu. Alan notes that some faculty are encouraging their students to utilize Amazon Web Services, although Amazon does not have a means of cutting-off the account, which has led to one student receiving an \$800 bill. Microsoft does have free student accounts.

Finally, HPC is expanding, and RCS is working with vendors to customize products. Orders should take place during April, and will be announced through multiple venues. RFP process is being governed by a faculty-led RFP Committee, which meets monthly. The new system should go into production by September (with installation over the summer).

Executive Session

As there are no decisions to ratify, and no significant issues to raise, Greg suggests skipping the Executive Session, then closes the Spring 2016 Yeti Operating Committee meeting.