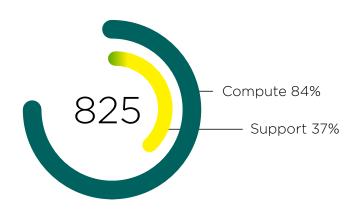
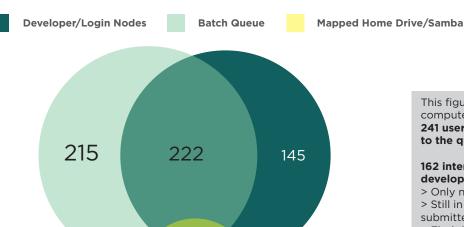
ICER SERVICE REPORT

OCT 2017









19

55

20

NUMBER OF USERS USING ICER COMPUTE SERVICES IN OCTOBER

This figure shows a breakdown of users that use iCER compute services:

241 users (222+19) use the developer nodes to submit jobs to the queue.

162 interactive users (145+17) only use iCER developer nodes to do their work. This includes users:

- > Only need access to software (ex. Matlab, mathematica)
- > Still in software development process and have not submitted a job
- > Find development nodes are sufficient for their research.

55 users only used the iCER file systems to store their files.

217 researchers (145+17+55) used iCER hardware outside of the batch queue.

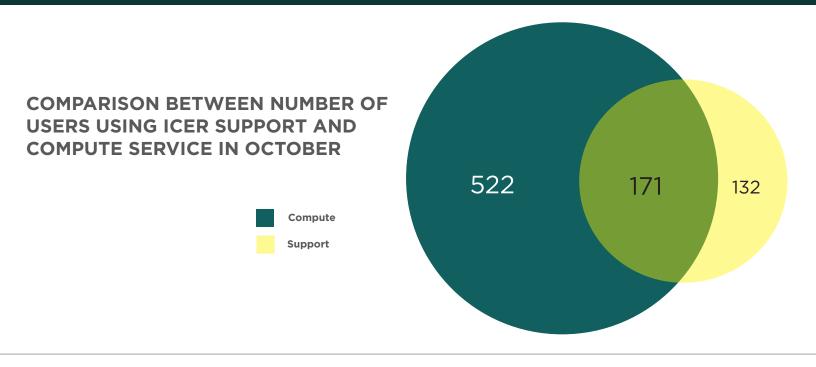
NUMBER OF USERS USING ICER SUPPORT SERVICES IN OCTOBER

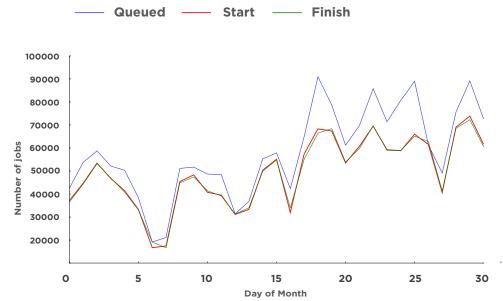
This figure shows a breakdown of users that use iCER support services. These support services include support tickets, iCER workshops and office hours.

List of iCER workshops in October:

- > Introduction to Linux/Unix
- > Introduction to HPCC
- > Parallel Computing with MATLAB
- > What's New with MATLAB



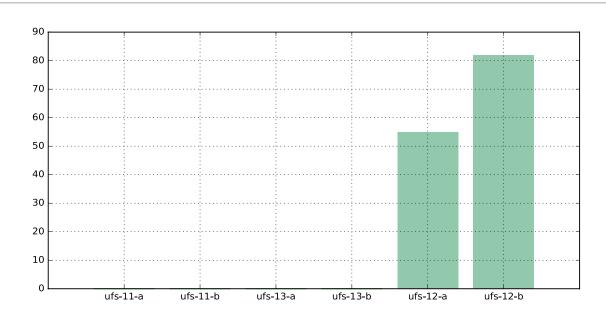




DAILY SCHEDULER ACTIVITY IN OCTOBER

On a typical day, the scheduler processes approximately 3,480,543 jobs. This includes jobs that are queued, jobs that start and jobs that end. Put in another way, the scheduler manages approximately 86 jobs per minute.

NUMBER OF MAPPED HOME DIRECTORIES PER SERVER IN OCTOBER



TICKET ACTIVITY SUMMARY IN OCTOBER



TICKET MESSAGE SUMMARY IN OCTOBER

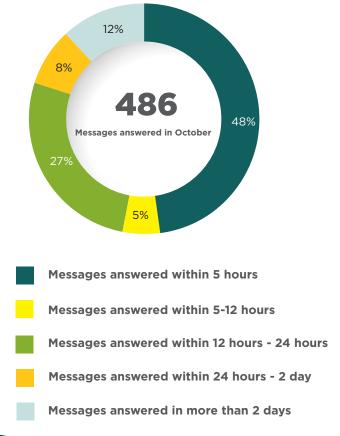




OCTOBER TICKET HIGHLIGHTS



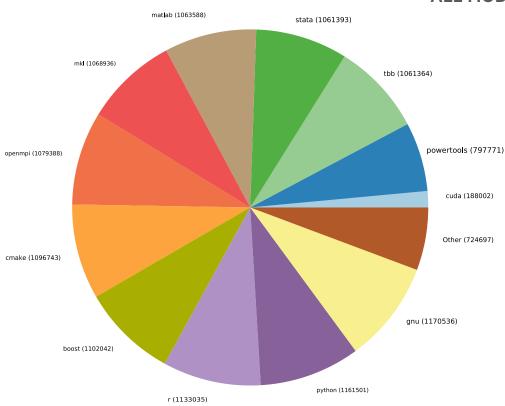
TICKET RESOLUTION STATISTIC IN OCTOBER



84

In an effort to better serve our users, we have been analyzing the software that is being used on the HPC by recording which software modules are being loaded using the "module load" command. Clearly this is not a complete view; many users install their own software in their home directories, some modules are automatically loaded as part of a user profile and there will be a bias toward pleasantly parallel codes which will load their required modules every time a job runs (as compared to bigger jobs which would only load the modules once). However, we find this data interesting and wanted to share it with you.

ALL MODULE LOAD COUNTS < 10000000



The pie chart shows the most commonly loaded modules. Note again that the biggest ones are the ones included in a user's default profile such as MATLAB, Python, and R. These modules get loaded every time they log in or run a job. As can be seen clearly, the default modules get loaded in an order of magnitude more than many of the other modules

ALL MODULE LOAD COUNTS < 100000

After taking out the default modules, the pie chart on the right shows more modules that users are choosing to include in their .bashrc files and being submitted on a lot of jobs.

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