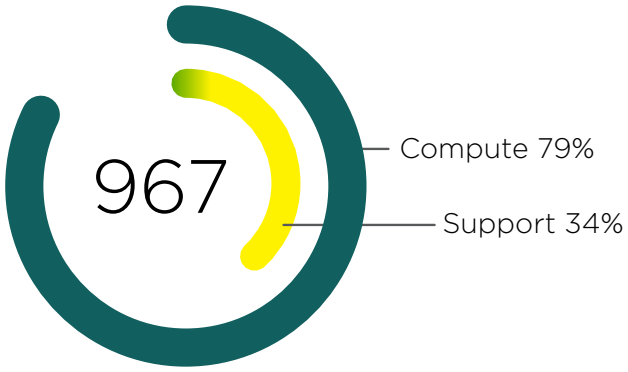
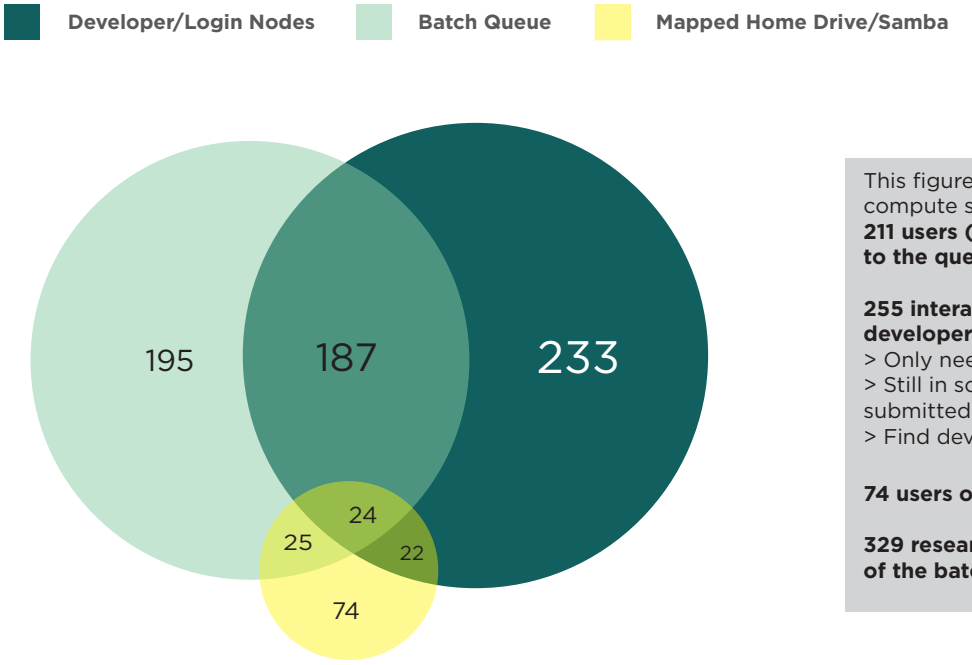
iCER SERVICE REPORT

AUG 2018

RESEARCHERS USED ICER SERVICES



NUMBER OF USERS USING iCER COMPUTE SERVICES



This figure shows a breakdown of users that use iCER compute services:
211 users (187+24) use the developer nodes to submit jobs to the queue.

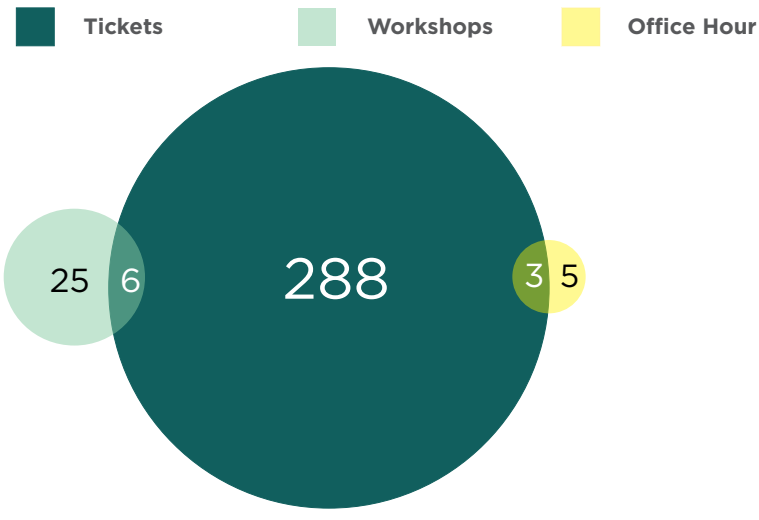
255 interactive users (233+22) only use iCER developer nodes to do their work. This includes users:
> Only need access to software (ex. Matlab, mathematica)
> Still in software development process and have not submitted a job
> Find development nodes are sufficient for their research.

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

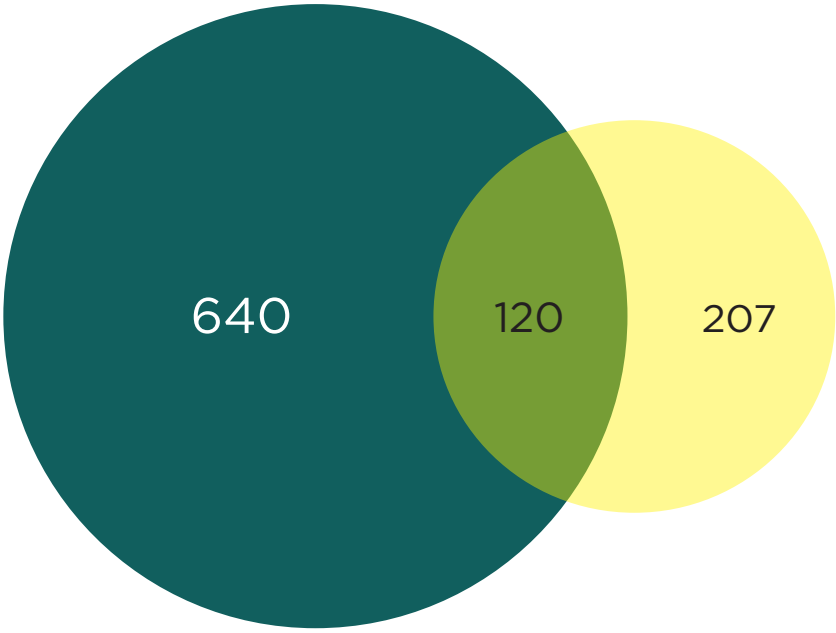
329 researchers (233+22+74) used iCER hardware outside of the batch queue.

NUMBER OF USERS USING ICER SUPPORT SERVICES

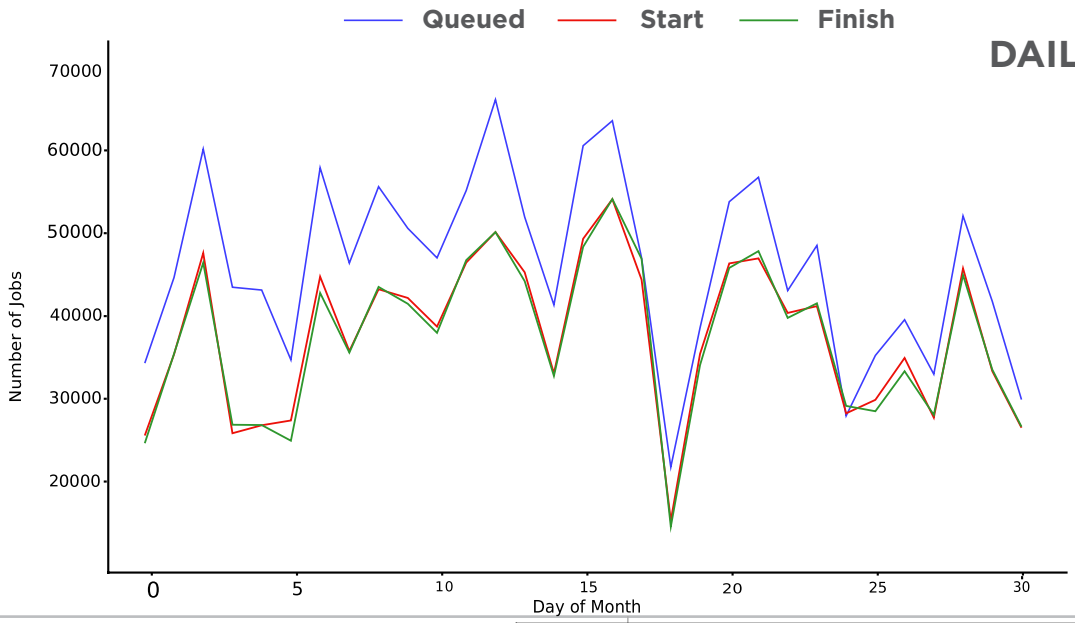
This figure shows a breakdown of users that use iCER support services. These support services include support tickets, iCER workshops and office hours.



COMPARISON BETWEEN NUMBER OF USERS USING ICER SUPPORT AND COMPUTE SERVICE

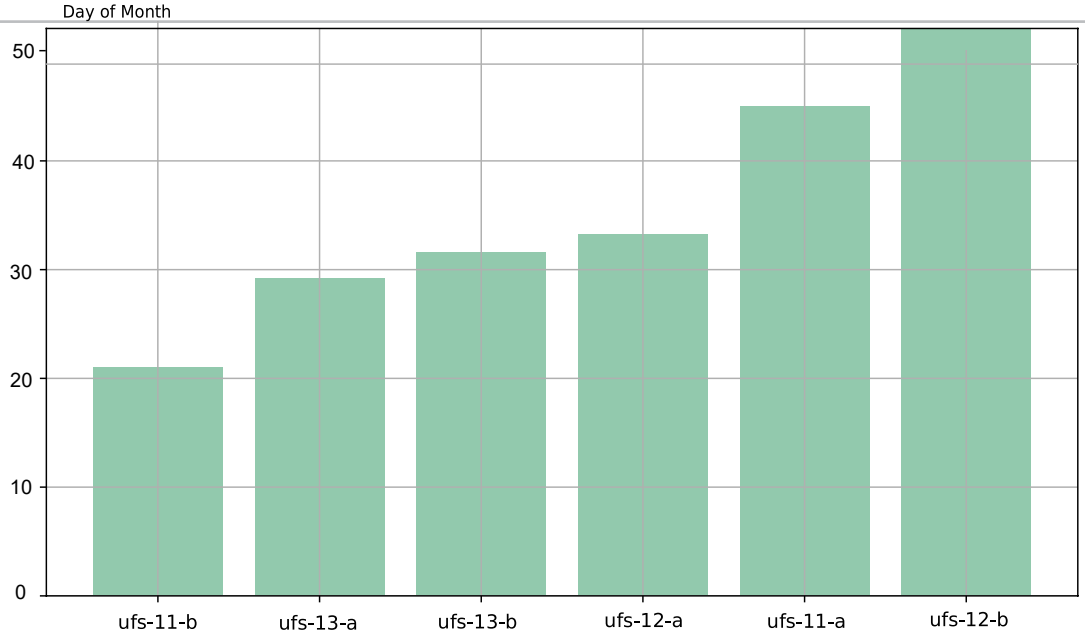


DAILY SCHEDULER ACTIVITY

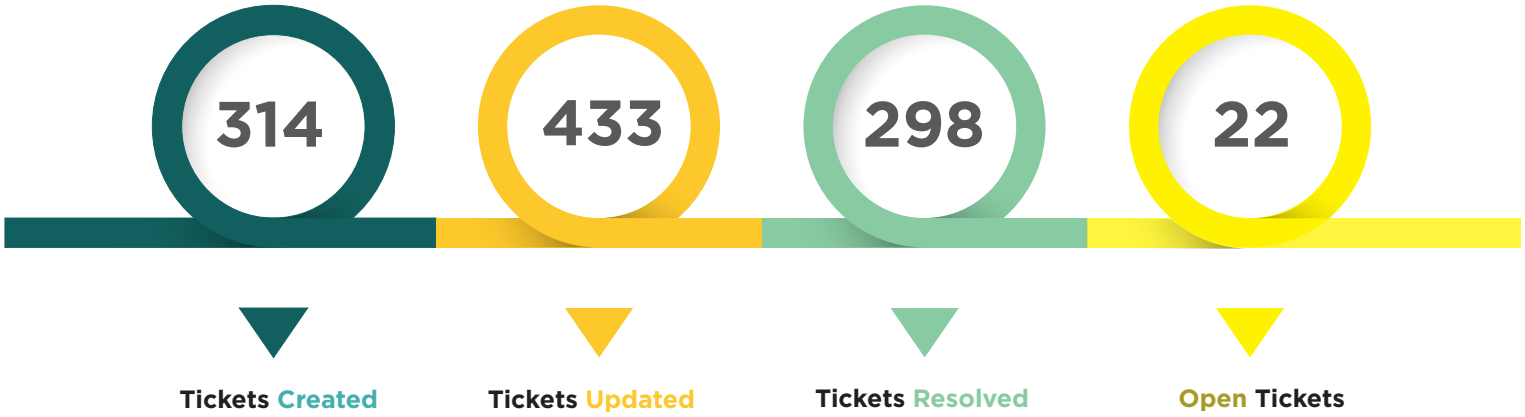


On a typical day, the scheduler processes approximately 98,302 jobs. This includes jobs that are queued, jobs that start and jobs that end. Put in another way, the scheduler manages approximately 68 jobs per minute.

NUMBER OF MAPPED HOME DIRECTORIES PER SERVER



TICKET ACTIVITY SUMMARY

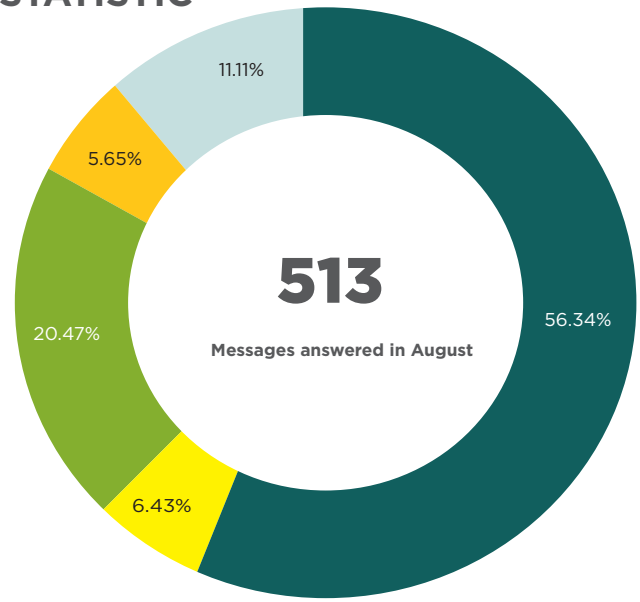


TICKET MESSAGE SUMMARY

625
Total Users' Messages

860
Total iCER's Messages

TICKET RESOLUTION STATISTIC



- Messages answered within 5 hours
- Messages answered within 5 - 12 hours
- Messages answered within 12 hours - 24 hours
- Messages answered within 24 hours - 2 day
- Messages answered in more than 2 days

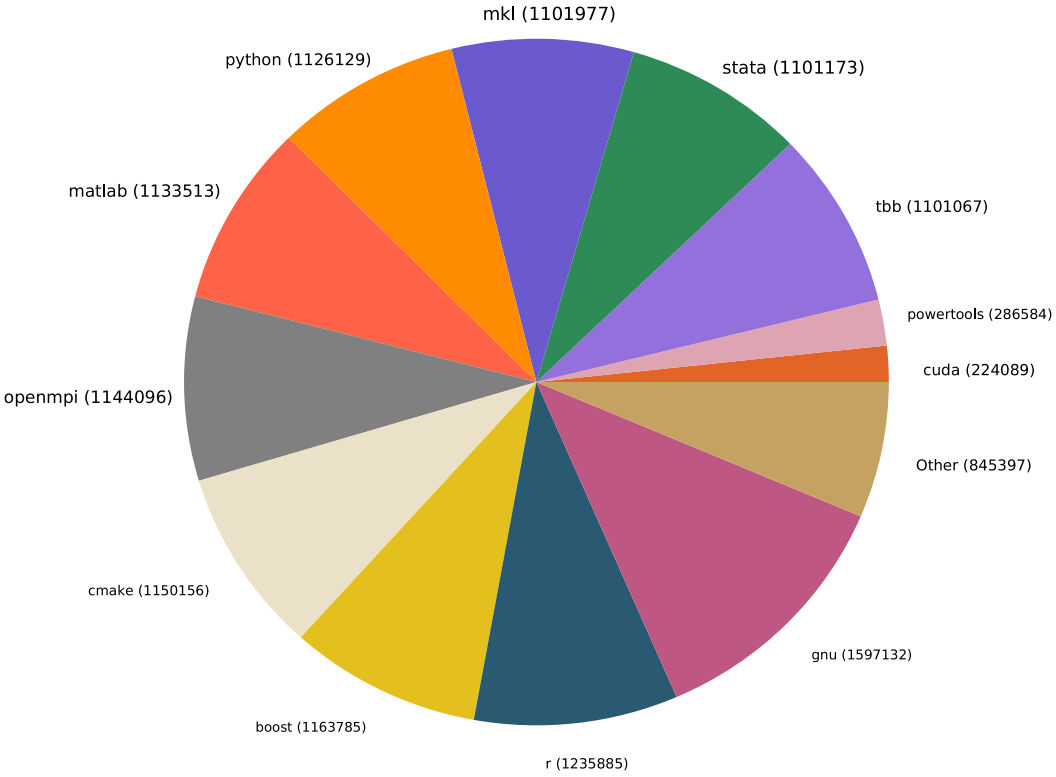
AUGUST TICKET HIGHLIGHTS

NANYE LONG
Research Consultant
R ON THE NEW CENTOS 7 NODES

100
New User Accounts created
in AUGUST

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.

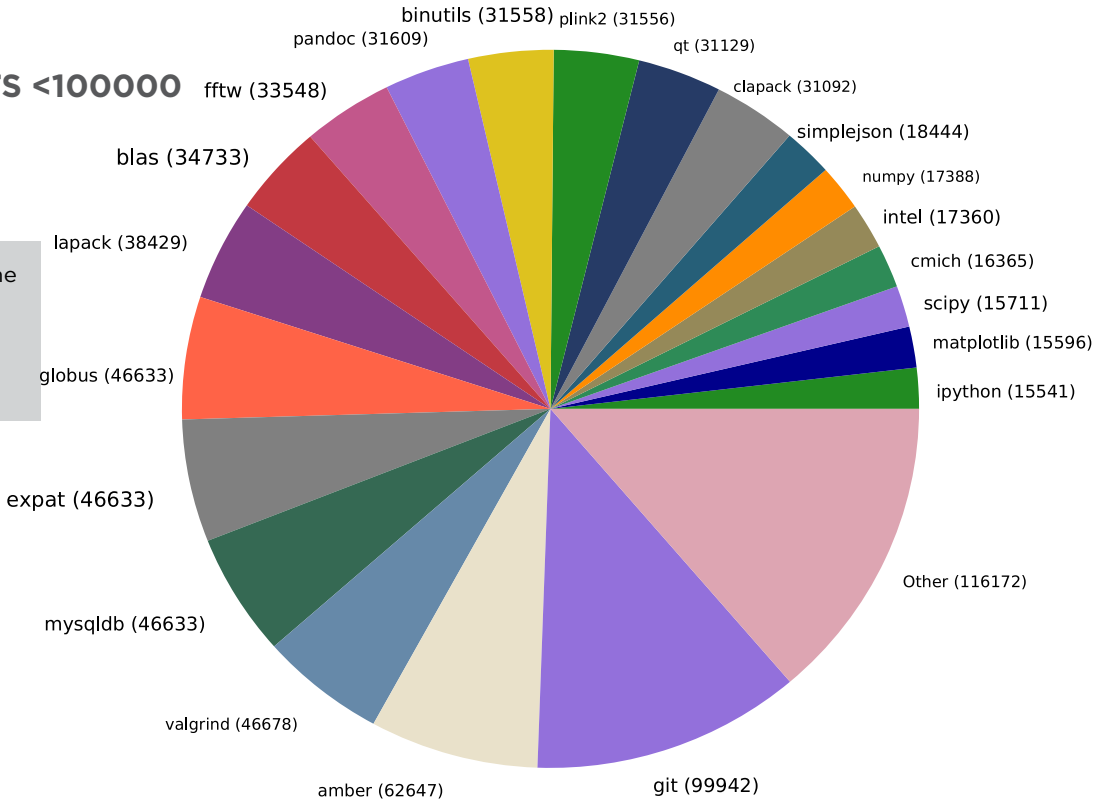
ALL MODULE LOAD COUNTS <10000000



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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