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 April:**
- Gaussian on HPCC
- Introduction to HPCC

**NUMBER OF USERS USING iCER COMPUTE SERVICES**

- 326 users (299+27) use the developer nodes to submit jobs to the queue.
- 234 interactive users (223+11) only use iCER developer nodes to do their work.
  - 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.
- 34 users only used the iCER file systems to store their files.
- 268 researchers (223+11+34) used iCER hardware outside of the batch queue.

**NUMBER OF USERS USING iCER SERVICE REPORT**

This figure shows a breakdown of users that use iCER service report.

**RESEARCHERS USED ICER SERVICES**

The number of users using iCER services is 857, with 26% support and 90% compute services.
COMPARISON BETWEEN NUMBER OF USERS USING ICER SUPPORT AND COMPUTE SERVICE

Compute Support

DAILY SCHEDULER ACTIVITY

On a typical day, the scheduler processes approximately 125,932 jobs. This includes jobs that are queued, jobs that start and jobs that end. Put in another way, the scheduler manages approximately 87 jobs per minute.

NUMBER OF MAPPED HOME DIRECTORIES PER SERVER
TICKET ACTIVITY SUMMARY

- **256** Tickets Created
- **357** Tickets Updated
- **232** Tickets Resolved
- **20** Open Tickets

TICKET MESSAGE SUMMARY

- **588** Total Users’ Messages
- **777** Total iCER’s Messages

TICKET RESOLUTION STATISTIC

- **534** Messages answered in April
- 42.51% Messages answered within 5 hours
- 9.84% Messages answered within 5 - 12 hours
- 16.11% Messages answered within 12 hours - 24 hours
- 8.95% Messages answered within 24 hours - 2 day
- 2.60% Messages answered in more than 2 days

APRIL TICKET HIGHLIGHTS

**CHUN-MIN CHANG**
Research Consultant
SYSTEM MIGRATION TO CENTOS 7

52 New User Accounts created in April
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.

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.

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.

Report Contributors:
Camille Archer
Pat Bills
Chun-Min Chang
Jim Leikert
Michelle Szidik
Naomi Wang
Xiaoxing (Adele) Han