# **iCER SERVICE REPORT**

JUN 2017



## COMPARISON BETWEEN NUMBER OF USERS USING ICER SUPPORT AND COMPUTE SERVICE IN JUNE







## DAILY SCHEDULER ACTIVITY IN JUNE

This figure shows the activity of the batch scheduling system by day. On a typical day, the scheduler processes approximately 134819 jobs. This includes jobs that are queued, jobs that start and jobs that end. Put in another way, the scheduler manages approximately 94 jobs per minute.

NUMBER OF MAPPED HOME DIRECTORIES PER SERVER IN JUNE





New User Accounts are created

in JUNE

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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 <1000000

modules.

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

#### 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. This group also includes the gateway module which gets loaded every time someone logs onto gateway. This by itself is interesting and shows that we had 30253 gateway connections in June. From our service report we know that 380 unique individuals used a developer node in April. This means that on average each person is logging into gateway approximately 80 times in the month or about 3 times a day (on average).



Camille Archer Chun-Min Chang Steven Ford Jim Leikert Michael Rometty Michelle Szidik Nicol Springer Xiaoxing (Adele) Han Xiaoge Wang

