

BLUE WATERS

SUSTAINED PETASCALE COMPUTING

3/18/18

Blue Waters User Monthly Teleconference



GREAT LAKES CONSORTIUM
FOR PETASCALE COMPUTATION

CRAY®

Agenda

- Recent Events, Coming Changes to Blue Waters
- Usage, Utilization and other Items
- Upcoming Opportunities
- Request for publications!

Recent Events and Outages

- 2/26/2018 – Preventative Maintenance.
 - Lustre server update.
 - Security updates.

Recent Changes

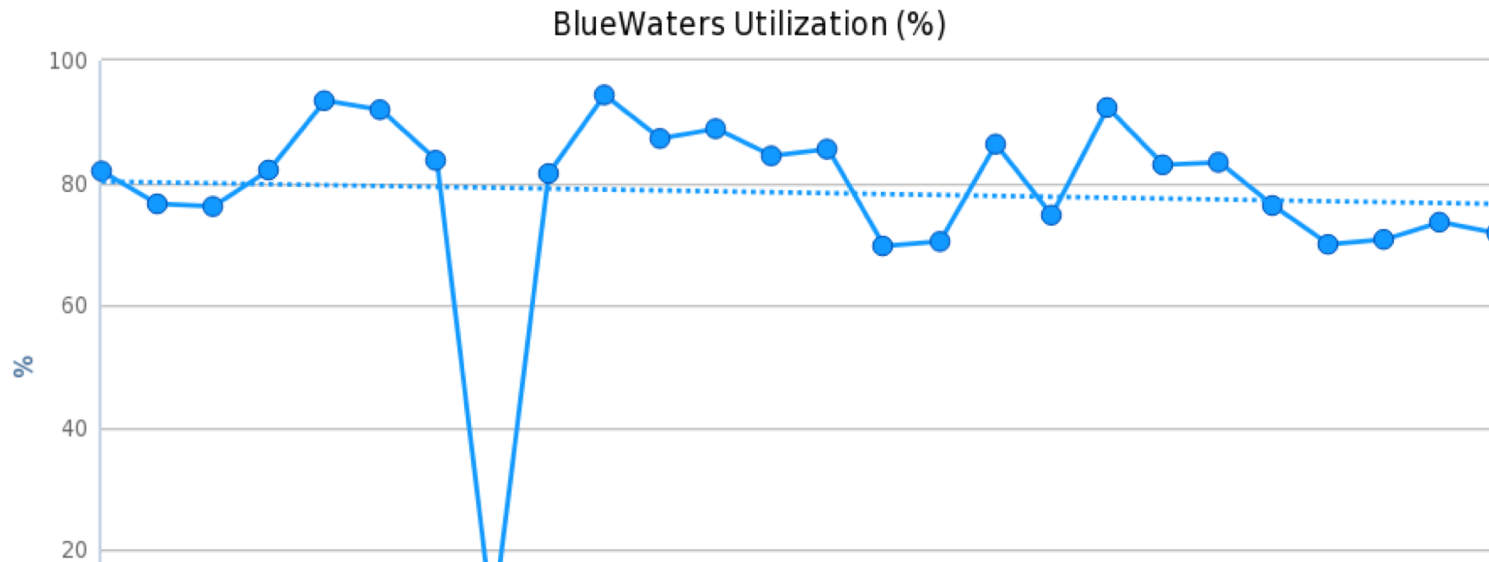
- None to report.

Upcoming Changes

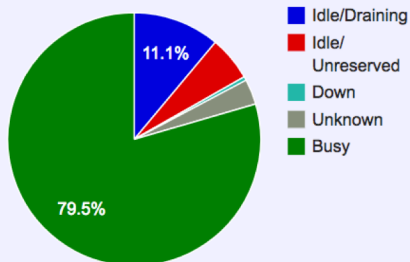
- Watch for news on Spark on Blue Waters.
 - Available for testing. Send us an email.
 - Working on documentation.

Usage, Utilization and other Items

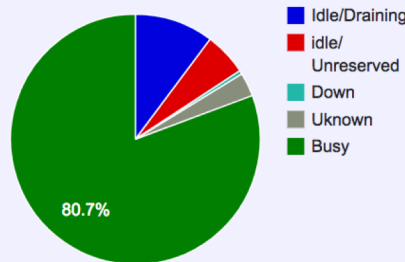
- Overall Utilization last 30 days



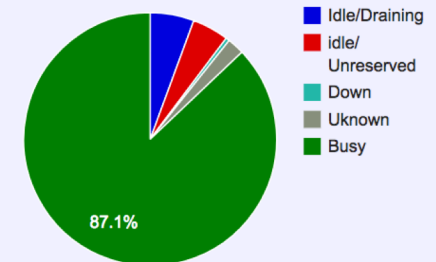
XE Utilization for this Period



Full System Utilization for this Period

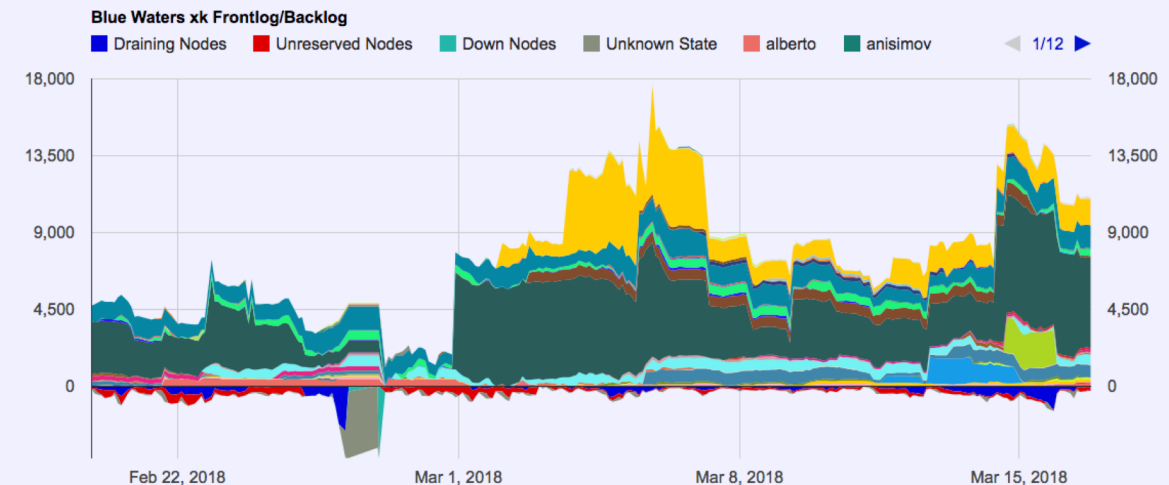
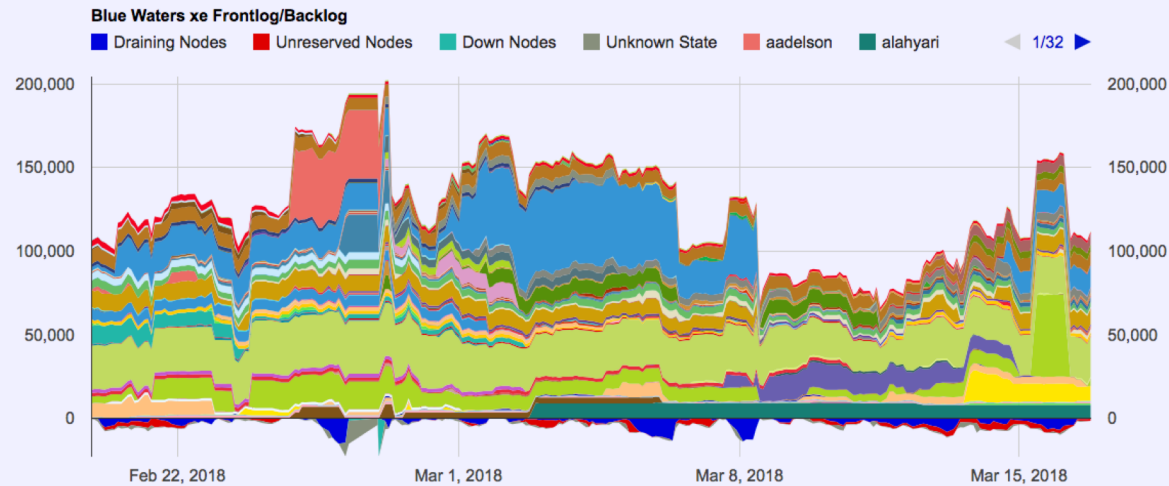


XK Utilization for this Period



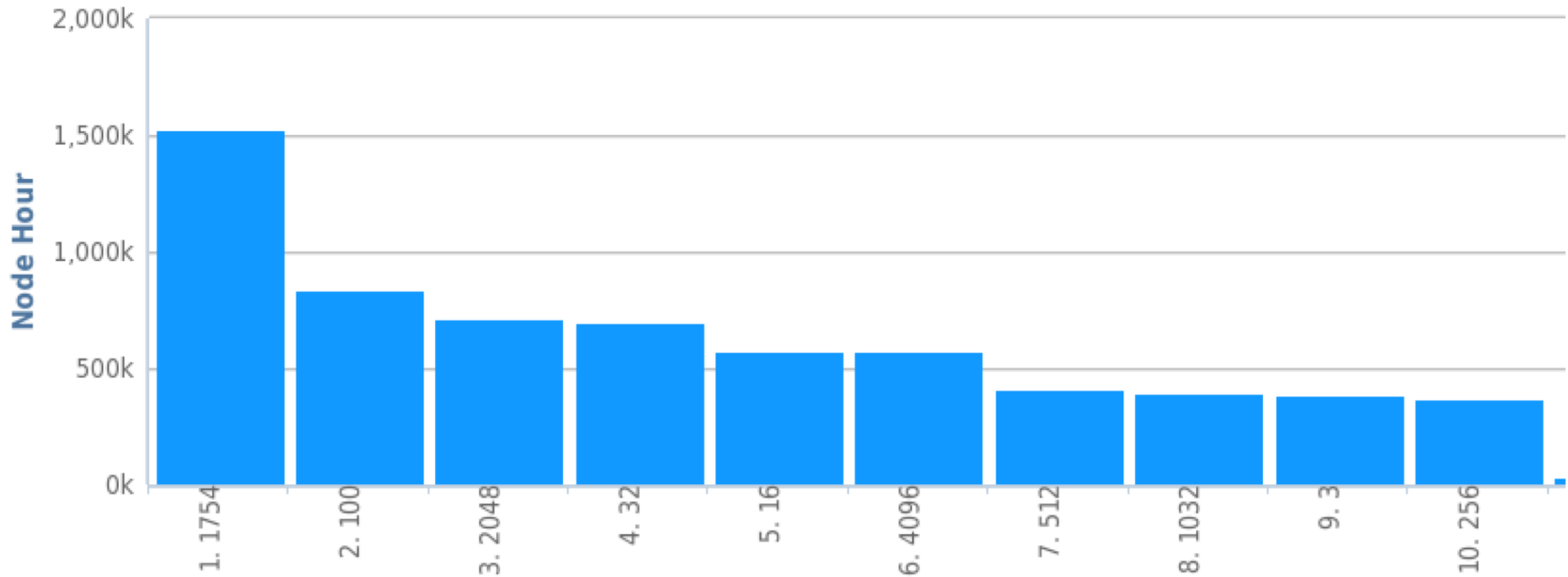
Backlog

- Last 30 days.
- Vertical axis in units of **nodes**. Colors are different users.
- Red **below** the x-axis indicates unreserved nodes. Blue **below** the x-axis indicates draining.



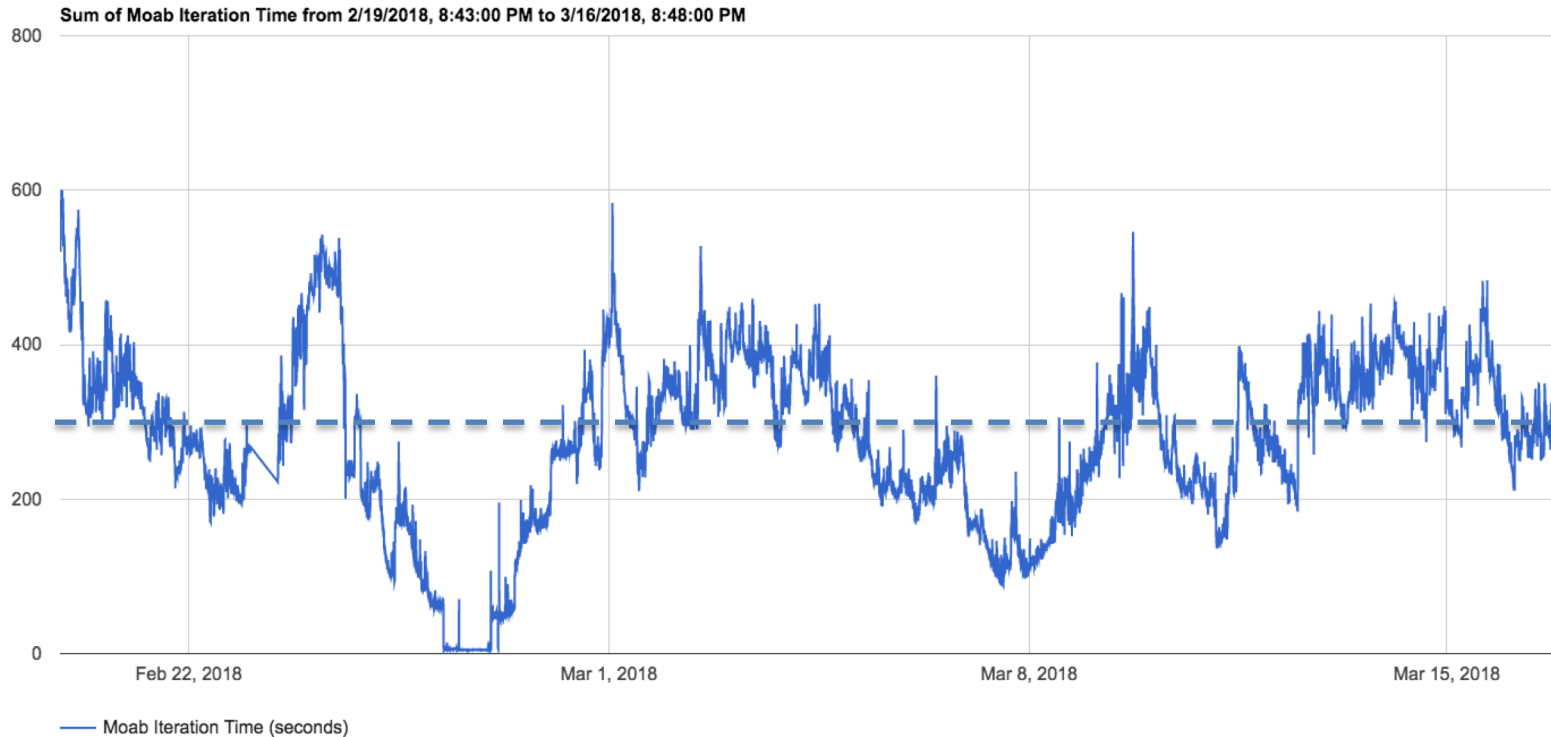
Workload Details

Node Hours: Total: by Node Count



- Good contributions by large XE jobs.
- Data combines XE and XK jobs.
- Last 30 days.

Job scheduler iteration time



- Working to keep iteration time < 300 seconds.


Blue Waters Weekly Webinar Series

- For more information about the webinar series, including registration, abstracts, speakers, as well as links to Youtube recordings, please visit the [Blue Waters webinar series webpage](#).
- We welcome suggestions for topics that will benefit the petascale community. Send your suggestions to bw-eot@ncsa.illinois.edu.

XSEDE Training Events

- April 3-4 - MPI
- Series run from 11AM-5PM Eastern Time each day.
- NCSA hosting local site for Illinois partners.
- <https://portal.xsede.org/course-calendar>

Request for Science Successes

- We need to be current on products that result from time on Blue Waters such as:
 - Publications, Preprints (e.g. [arXiv.org](https://arxiv.org) ) , Presentations.
 - Very interested in data product sharing.
- Appreciate updates sooner than annual reports.
 - Send to gbauer@illinois.edu
- NSF PRAC teams send information to PoCs.
- See the [Share Results](#) section of the portal as well.
- **Be sure to include [proper acknowledgment](#)**
 - Blue Waters - National Science Foundation (ACI 1238993)
 - NSF PRAC – OCI award number