11/20/17

Blue Waters User Monthly Teleconference

SC17 Highlights

- SEAS support of the ArcticDEM project.
- NCSA Industry "Top Supercomputing Achievement"

Agenda

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

Recent Events and Outages

- 10/25 - Blue Waters Emergency Maintenance
  - Security patch.
- 11/06 – Two cabinets with cooling issue. Resolved in under 2 hours.
- 11/11 – Two cabinets with cooling issue. Resolved in under 1 hour.

Recent Changes

- New OpenSSL module
  - New svn, git and wget modules

- Available but not default
  - PGI 17.5

  - FORGE (DDT) 7.0.5.1
    - Resolves issue with CUDA+MPI

- Unselect channels. Must subscribe to "Mandatory"
- Notices may appear on new system-blog page
 - https://bluewaters.ncsa.illinois.edu/system-blog

Usage, Utilization and other Items

- Overall Utilization last 30 days

BlueWaters Utilization (%)

Trend Line: (-0.05x +75.52), R-Squared=0.002967

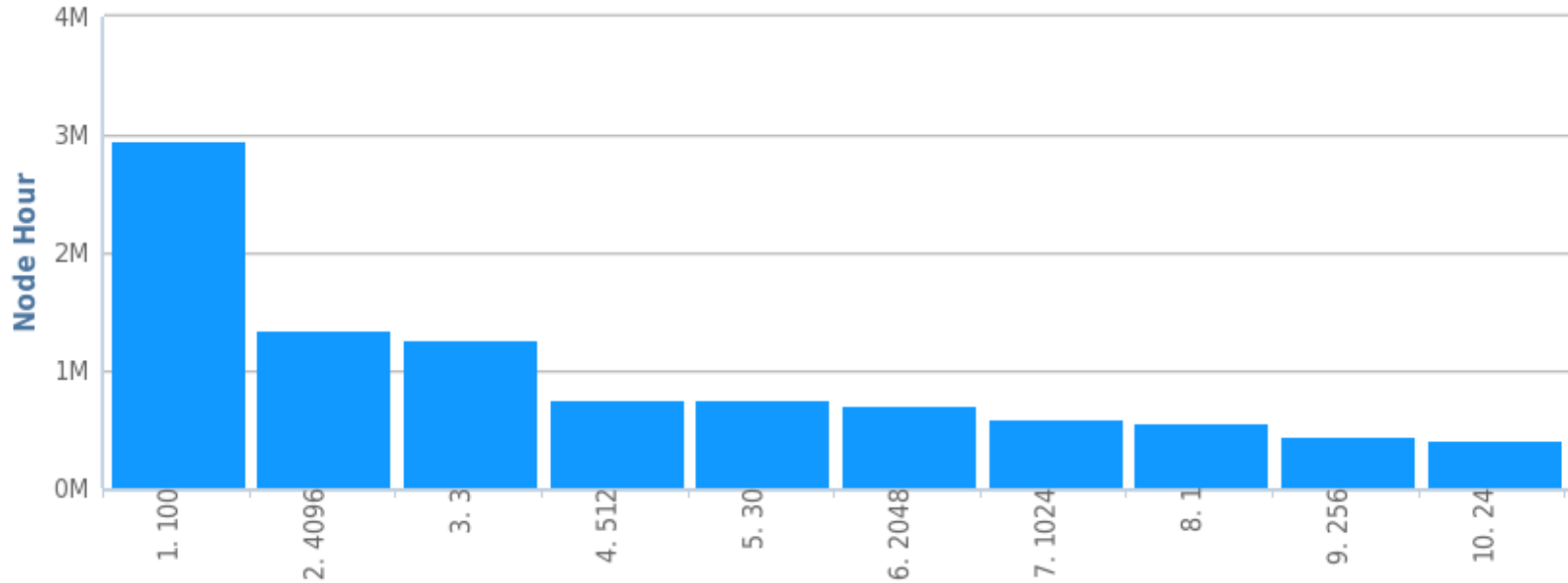2017-10-12 to 2017-11-16 Src: HPcDB. Powered by XDMoD/Highcharts
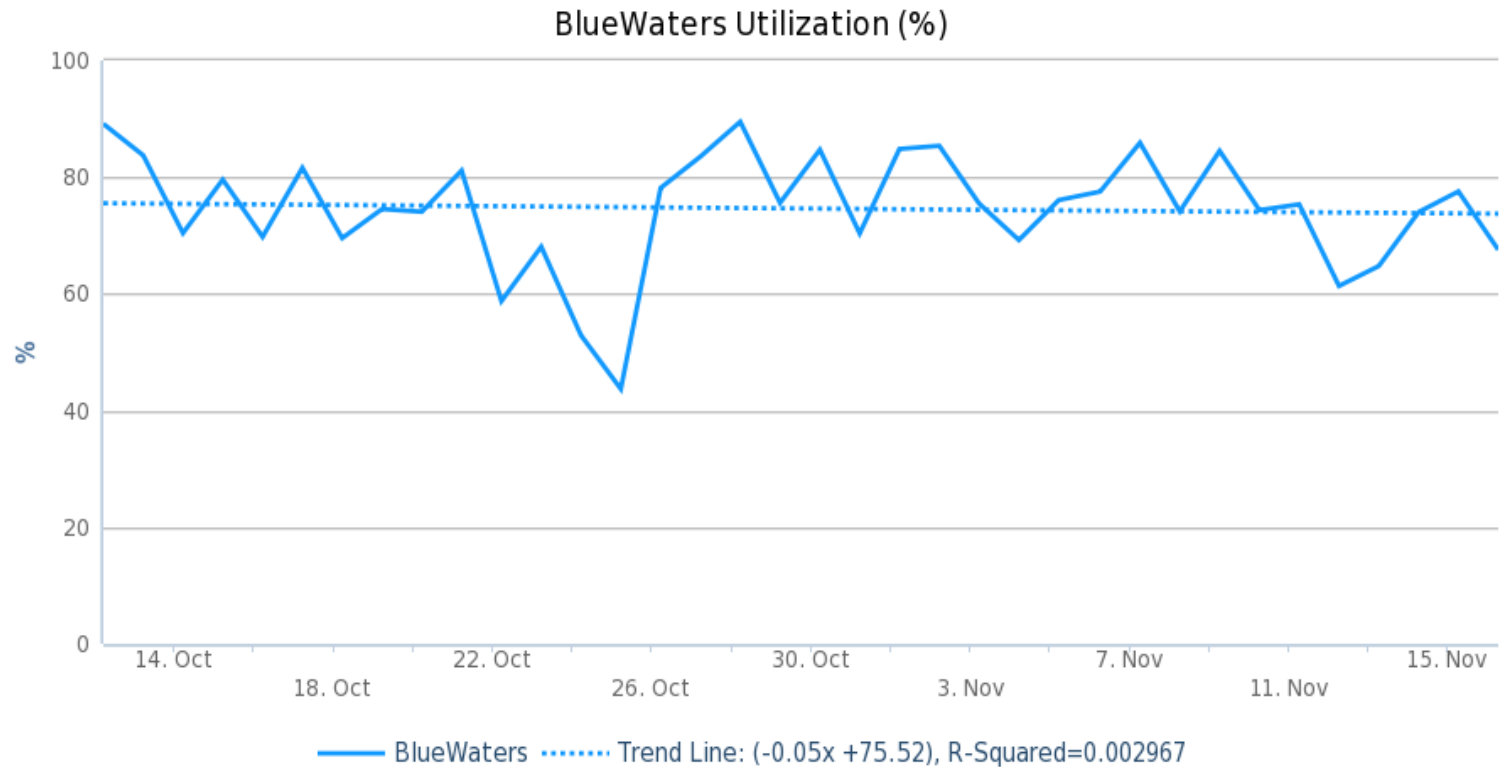
Backlog

- 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.

- Added utilization pie charts showing XE and XK utilization by node state.
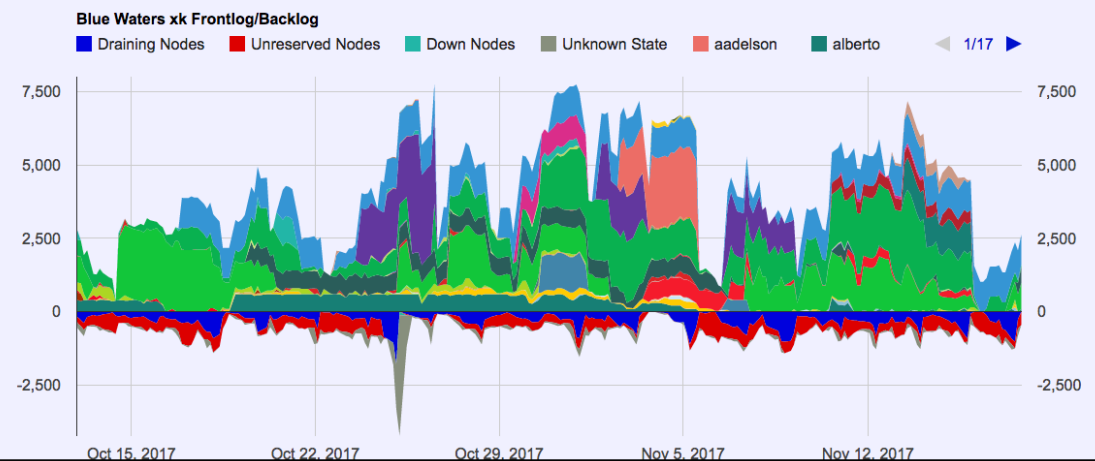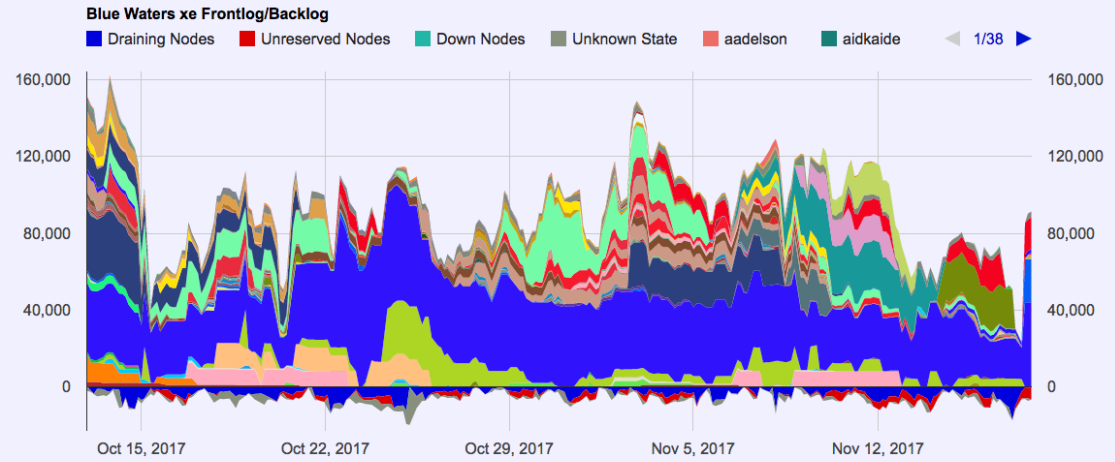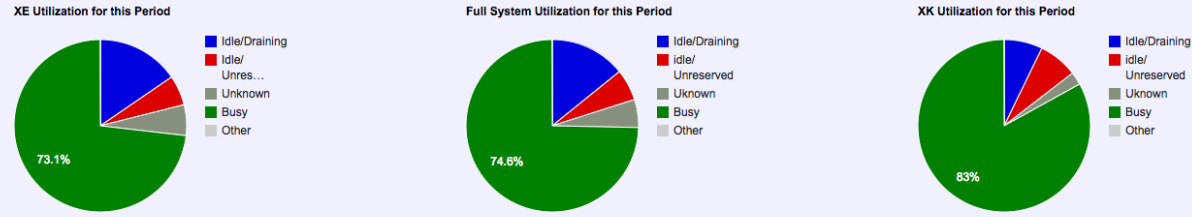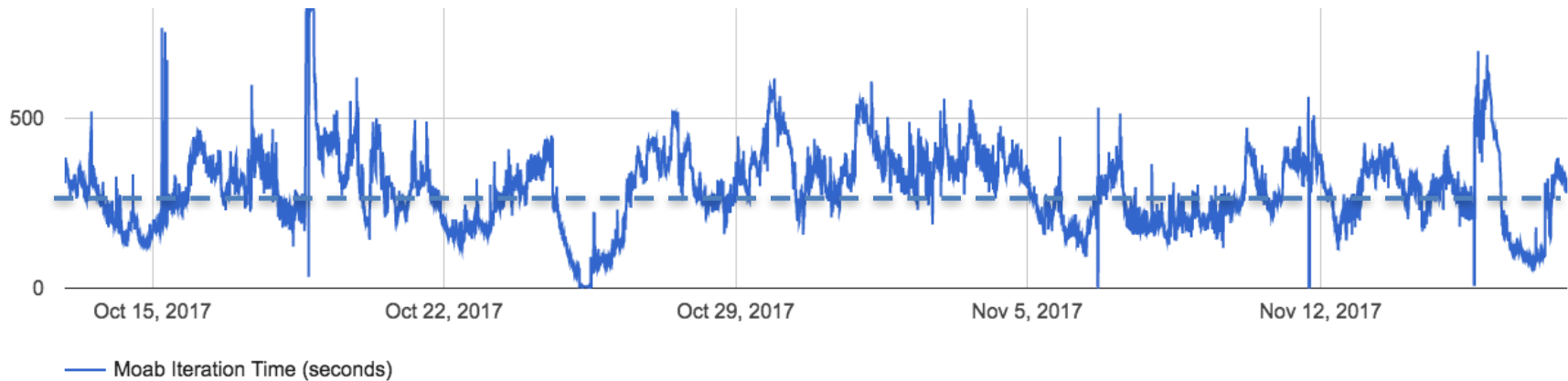
Workload Details

Node Hours: Total: by Node Count

- Data combines XE and XK jobs.
- Last 30 days.

Job scheduler iteration time

Moab Iteration Time (seconds)

- 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.

No webinars November 15 — November 22, 2017					
November 29, 2017	Software Engineering Practices	Jeff Carver	--	Live	Survey
December, 2017					
No webinar on December 6, 2017					

XSEDE Training Events

- Big Data- December 5-6, 2017
    - Two day Big Data workshop, to be held December 5-6, 2017, will focus on topics such as Hadoop and Spark. Wide Area Classroom (WAC) training platform will be used.

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 😈), 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