Blue Waters User Monthly Teleconference

Agenda

- Limited to 30 minute due to trial evaluation of zoom.us.
- Changes and Recent Events
- Utilization and Usage
- Opportunities
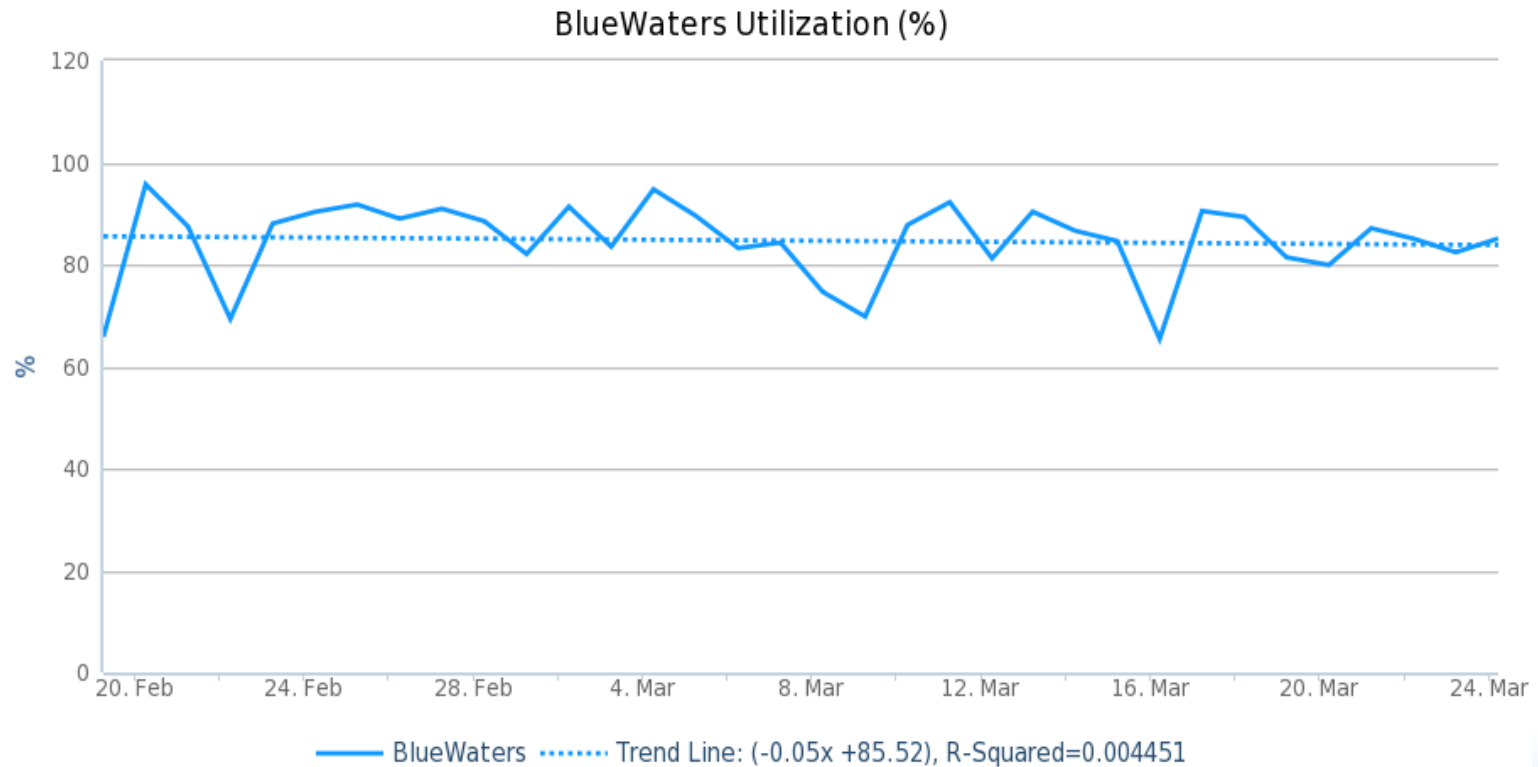- PUBLICATIONS!

Recent and Future Changes

- During tomorrow's PM
  - Programming Environment (PE) 16.11 (Nov, 2016).
    - CCE 8.4.6, Intel 16.0.3.210, PGI 16.3.0.
    - GCC 4.9 will remain default for CUDA compatibility.
      - GCC 5.x and 6.x versions available.
    - See Programming Environment Changes page on the portal.
  - Two charge factor discounts to be discontinued: backfill and wall clock accuracy.

Recent Events (since last User call)

- 3/8/17 – 3 cabinets emergency power off (EPO) from cooling issue.

- 3/15/17 – 1 cabinet power supply failure.

- 3/16/17 – 1 cabinet power supply failure.

- 3/25/17 – hanging process status on login nodes.

- 3/25/17 – Scratch file system, slow MDS failover due to high load.

Usage, Utilization and other Items

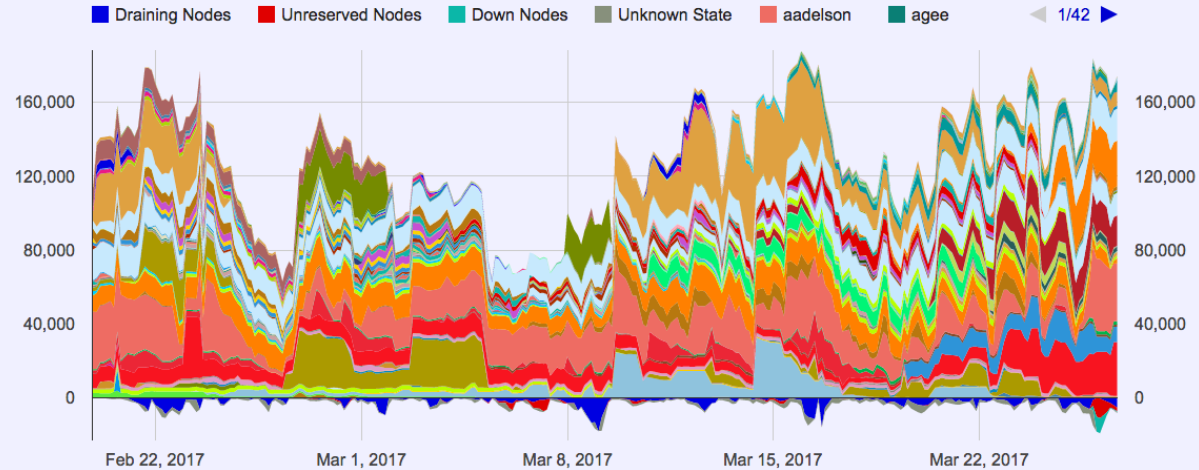- Utilization since last BW User Call (Feb 20)

BlueWaters Utilization (%)

BlueWaters ········ Trend Line: (-0.05x +85.52), R-Squared=0.004451

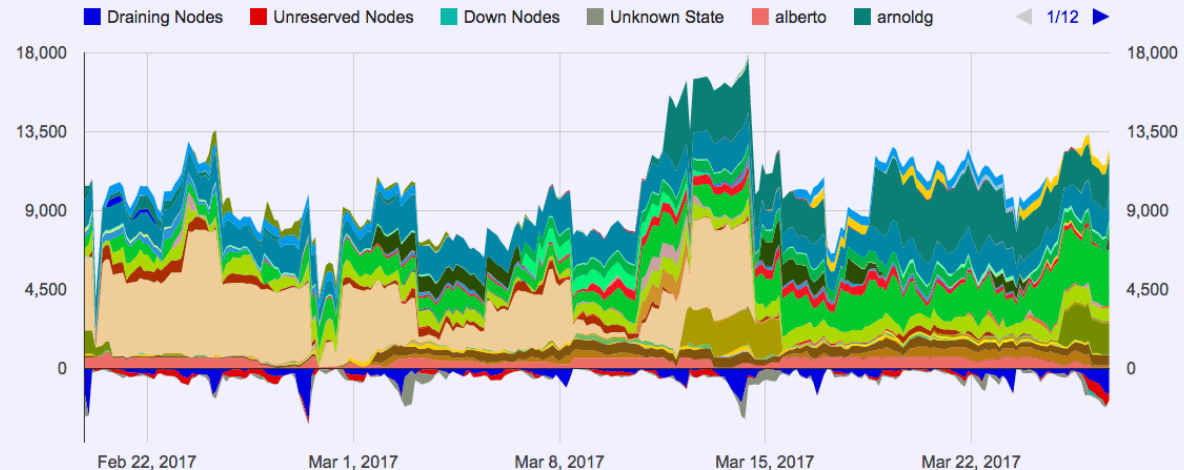2017-02-19 to 2017-03-24 Src: HPcDB. Powered by XDMoD/Highcharts

Backlog

- Since BW User Call 02/20
- Vertical axis in units of **nodes**. Colors are different users.
- Smaller XE backlog of late.
- Red below the x-axis indicates unreserved nodes.
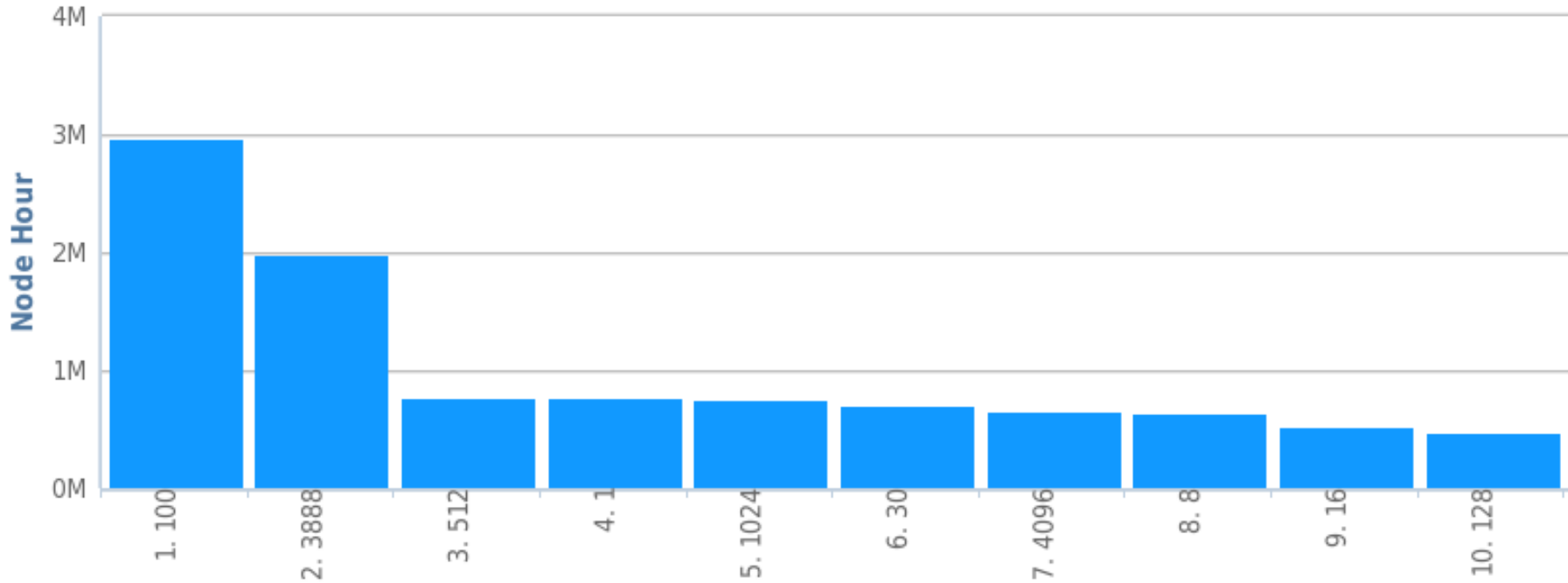- Blue below the x-axis indicates draining.

Workload Details

Node Hours: Total: by Node Count

- Data combines XE and XK jobs.
- Since last BW User Call (Feb 20)
- Single node jobs contribute as do 3888, 1024 and 4,096 node jobs.

Blue Waters Weekly Webinar Series

- Starts Wednesday, March 1. Webinars will begin at 10 a.m. Central Time (UTC-6).

- "Getting I/O Done with Parallel HDF5 on Blue Waters" hosted by Gerd Heber, HDF Group, will take place March 29, 2017.

- 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](#).

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