

# BLUE WATERS

SUSTAINED PETASCALE COMPUTING

1/22/17

## Blue Waters User Monthly Teleconference



GREAT LAKES CONSORTIUM  
FOR PETASCALE COMPUTATION

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# Agenda

- Blue Waters Annual Review
- Current Issues
- Changes and Recent Events
- Utilization and Usage
- Opportunities
- **PUBLICATIONS!**

## Annual NSF Review

- Thanks to all of our partners for assistance in making the Blue Waters project a success.
- Your accomplishments and achievements were well received.
- Your participation in the external evaluations was extremely important.
- Look for a Blue Waters workload analysis technical report, and a publications and products impact analysis report.

## Current Issues

- Login node instability
  - We continue to monitor to detect nodes login nodes in suspect state.

## Recent and Future Changes

- No changes since last call.
- Looking at setting PE 16.11 (Nov 03, 2016) as default in February. Stay tuned.

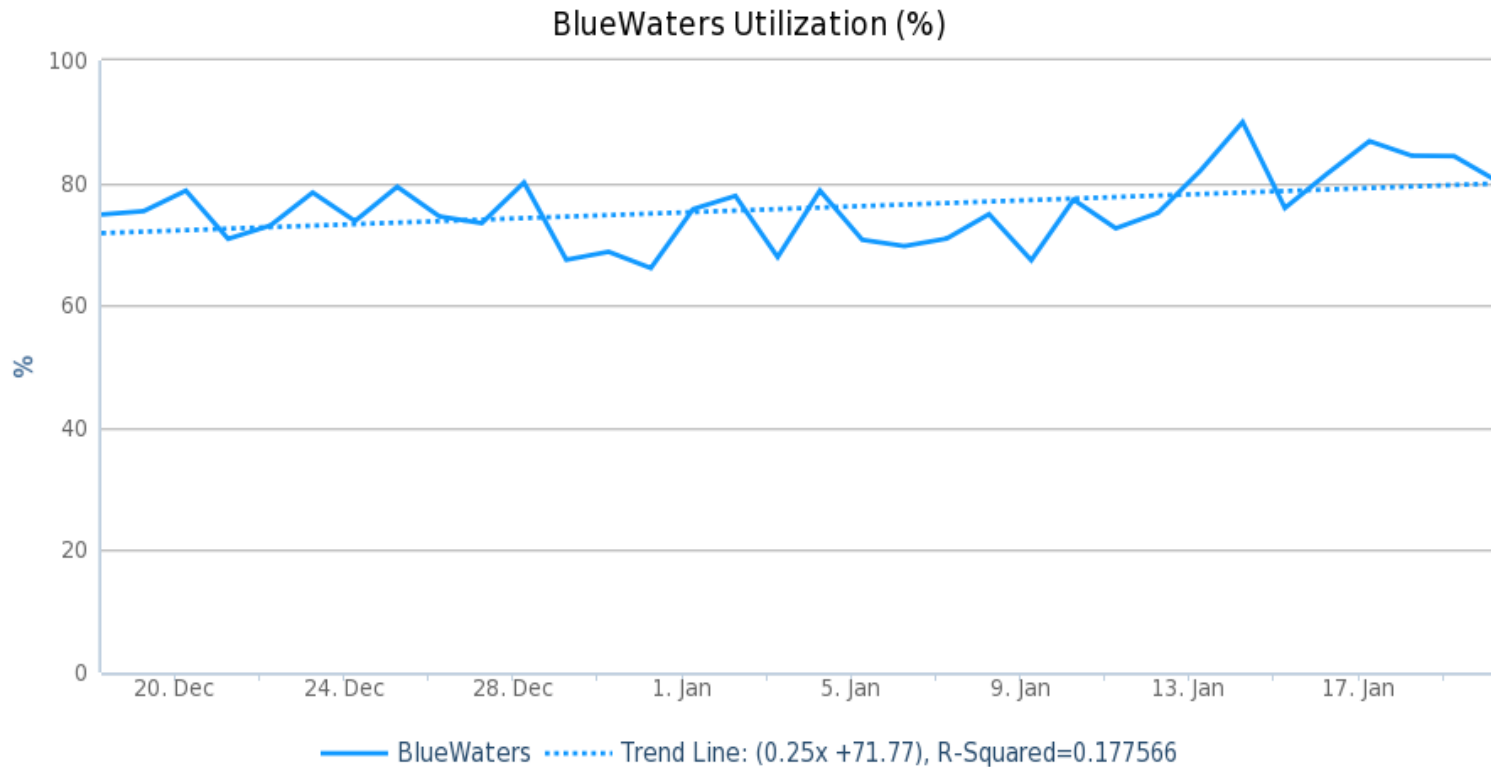
## Recent Events (since last User call)

- 1/05 – file system responsiveness. Possibly linked to issue causing login node responsiveness.



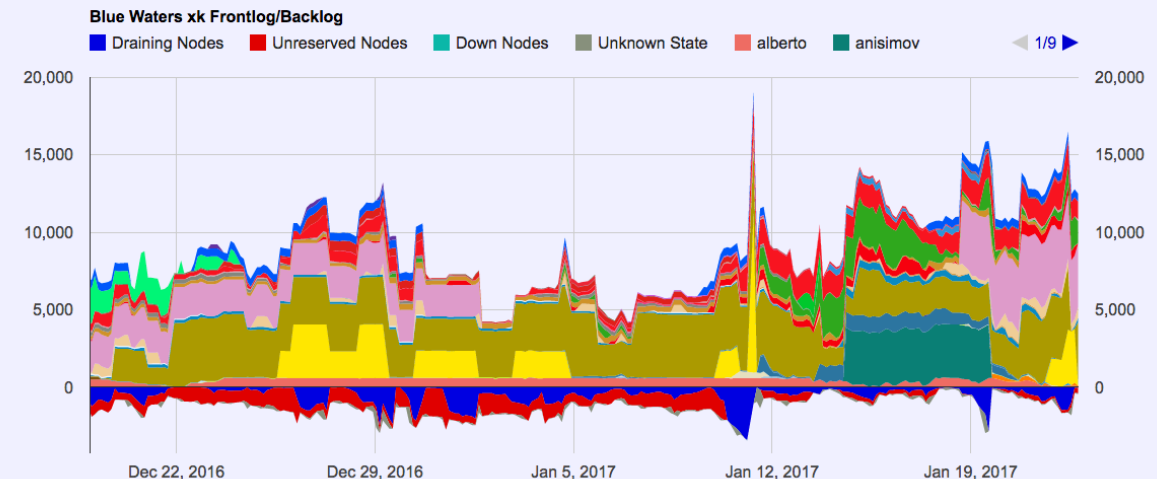
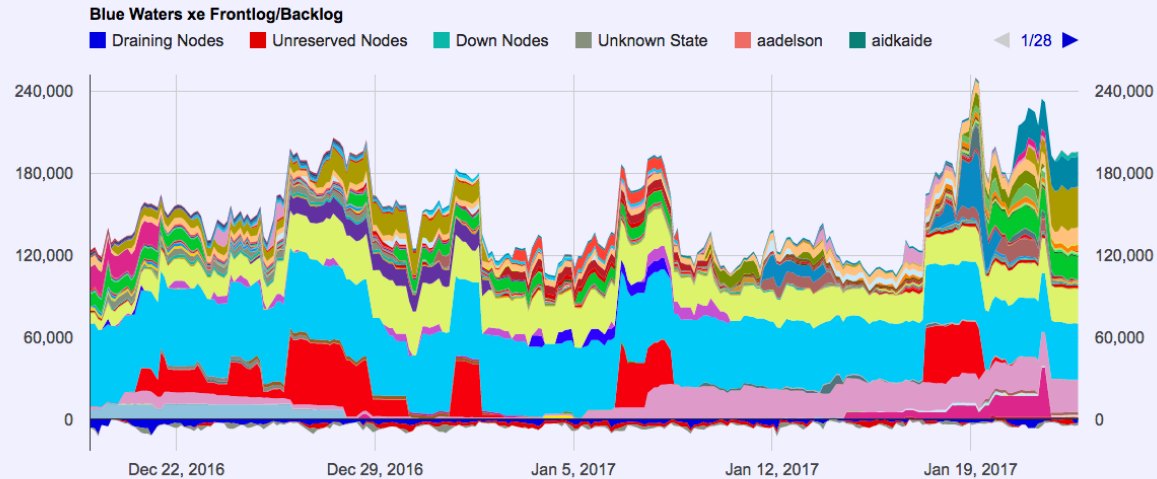
# Usage, Utilization and other Items

- Utilization since last BW User Call (Dec 19)



## Backlog

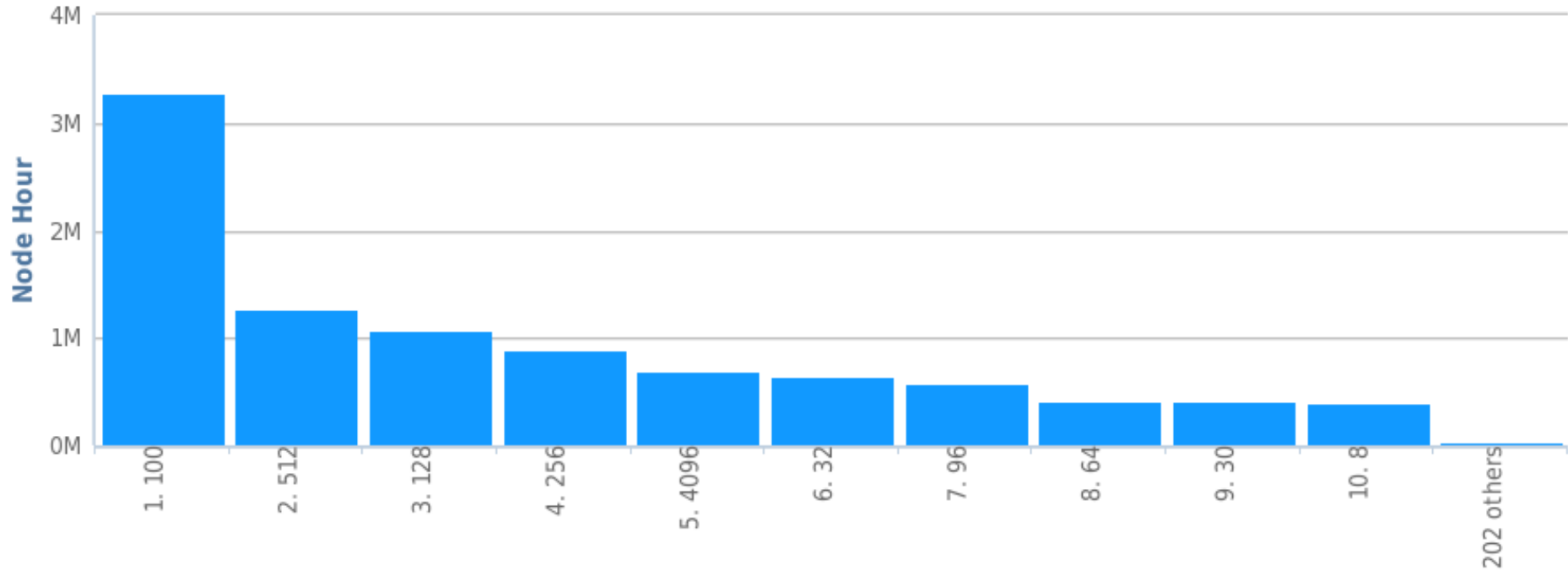
- Since BW User Call 12/19
- Vertical axis in units of **nodes**. Colors are different users.
- Mix of jobs and 3 – 4 x machine node count to get good sustained utilization.
- Red below the x-axis indicates unreserved nodes.
- Blue below the x-axis indicates draining.





# Workload Details

Node Hours: Total: by Node Count




- Data combines XE and XK jobs.
- Since last BW User Call (Dec 19)
- Note difference in distribution of node-hours.

## Upcoming Opportunities

- Applications are now being accepted for Blue Waters Fellowships. Applications are due **February 3, 2017**. More information is available at: <https://bluwaters.ncsa.illinois.edu/fellowships>
- Applications are now being accepted for Blue Waters undergraduate internships. Applications are due **February 3, 2017**. More information is available at: <https://bluwaters.ncsa.illinois.edu/internships>
- Spring 2017 PRAC call is expected to be due March-April. Watch NSF website or Blue Waters portal.

## 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](mailto: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