

BLUE WATERS

SUSTAINED PETASCALE COMPUTING

8/19/19

Blue Waters User Monthly Teleconference



GREAT LAKES CONSORTIUM
FOR PETASCALE COMPUTATION

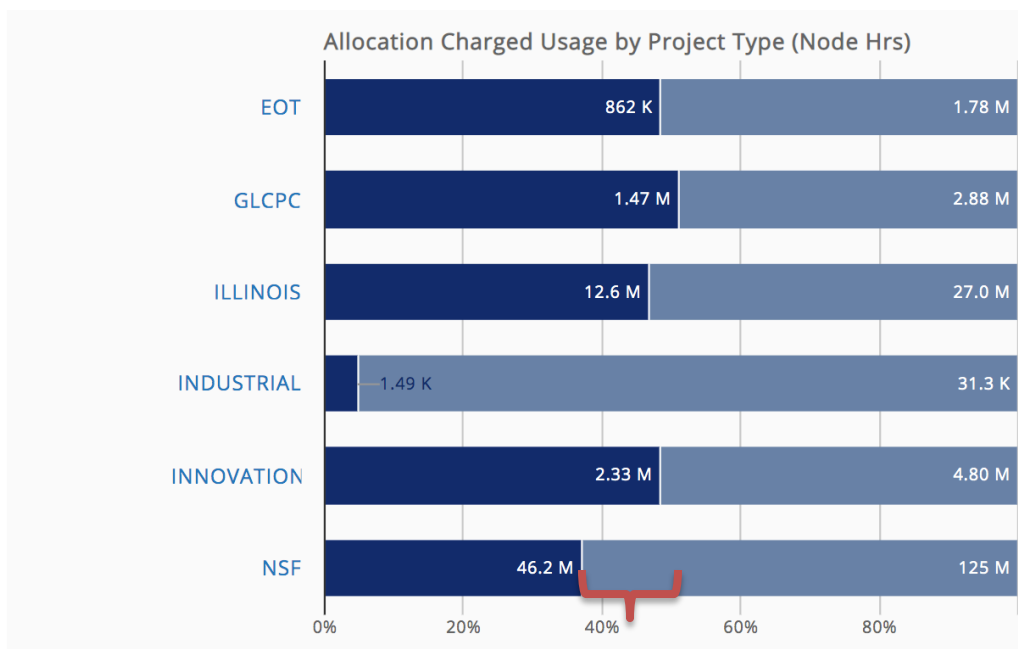
CRAY®

Agenda

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

Allocation usage review

- Now past the “half-way” point to the 12/19/2019 end date for most allocations.



- <https://bluewaters.ncsa.illinois.edu/usage>

Recent Events and Outages (since 7/20/2019)

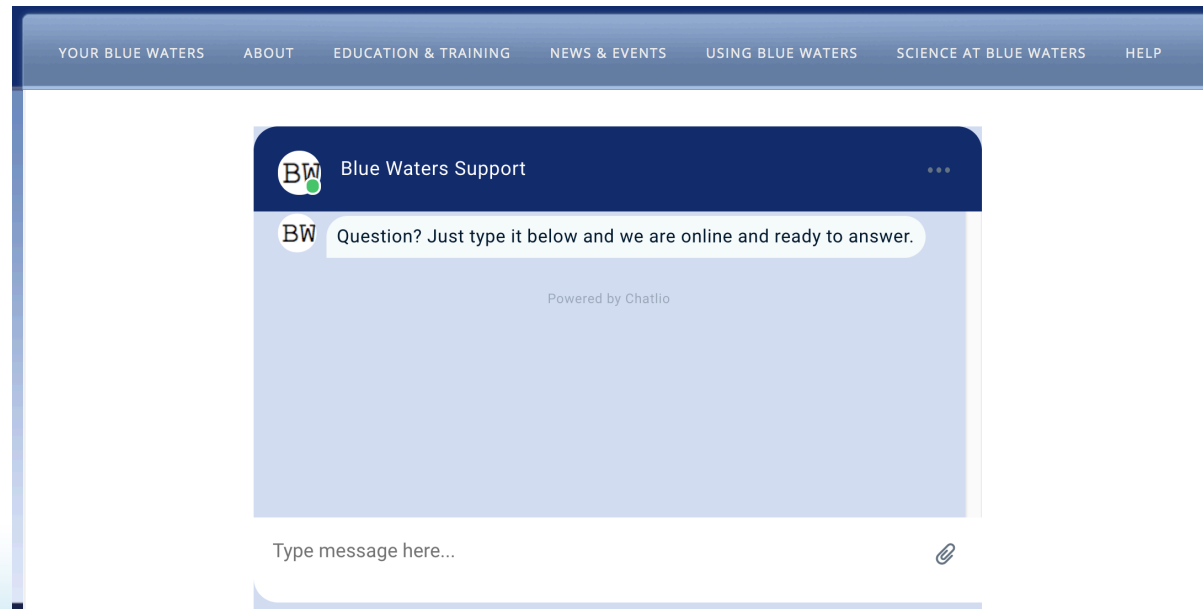
- 8/16/2019 - Single cabinet powered off for emergency electrical maintenance. Issue discovered during routine maintenance (warm-swaps).
- 8/15/2019 – bwpy installation offline. Resolved soon after becoming aware of issue.

Scheduled Outages

- N/A

Recent Changes

- 8/7/2019 - New portal IM chat. Go to <https://bluewaters.ncsa.illinois.edu/contact-us> and click on “Support Chat” link.



Edge users will need to reload the page when presented with a blank Blue Waters Support chat window.

Upcoming Changes

- New zero charge queue in the works for projects with no active/available allocation that are still on the system. In testing phase. Look for announcement in a week.
- Default PE change postponed till end of Blue Waters NSF operations (12/19/2019).

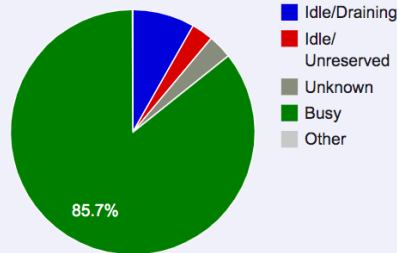
Usage, Utilization and other Items

- Overall Utilization since last user call

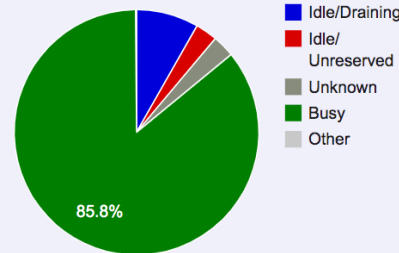
BlueWaters Utilization (%)



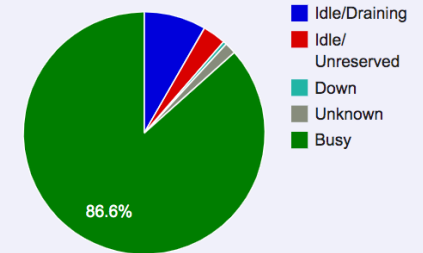
XE Utilization for this Period



Full System Utilization for this Period



XK Utilization for this Period

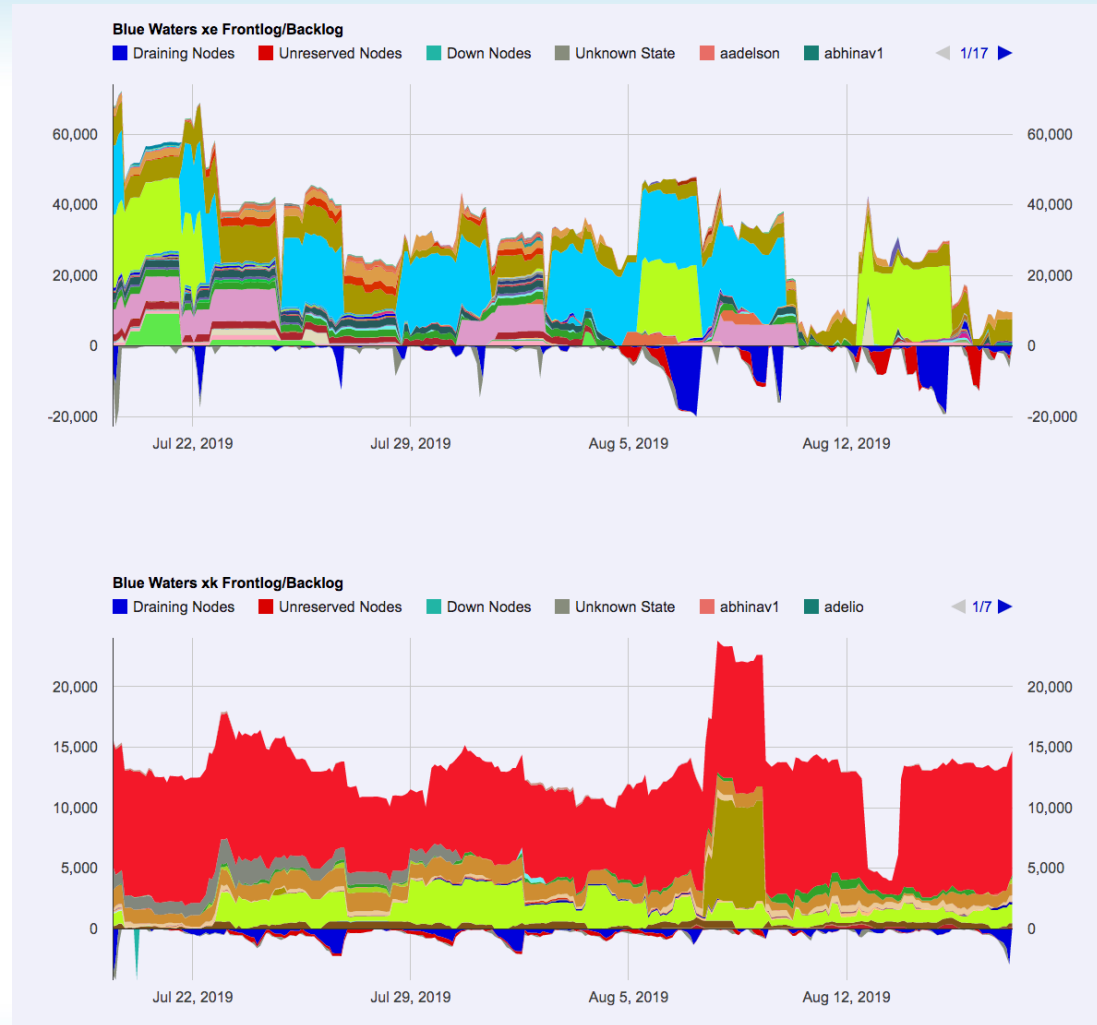


0 20. Jul 24. Jul 28. Jul 1. Aug 5. Aug 9. Aug 13. Aug 17. Aug

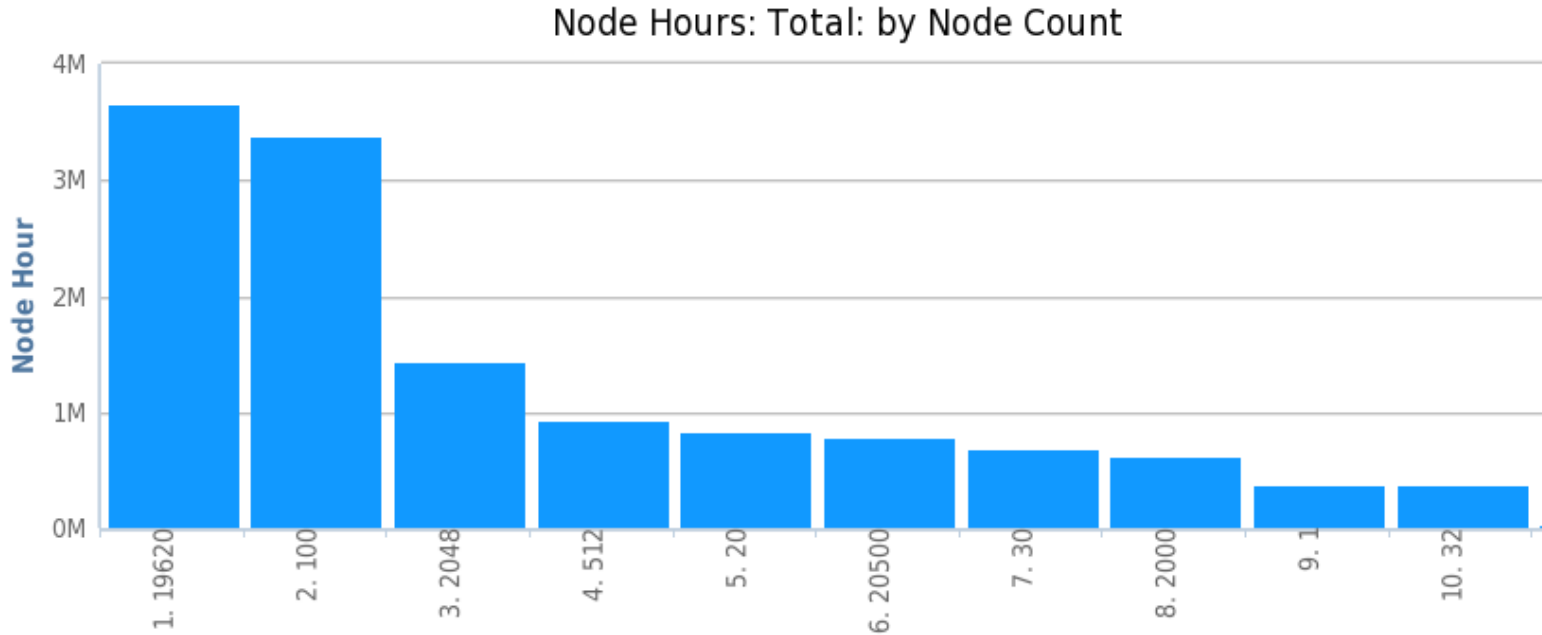
—●— BlueWaters Trend Line: (-0.53x +93.91), R-Squared=0.137482

Backlog

- Since last user call.
- 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



- Data combines XE and XK jobs.
- Note the return to large XE jobs.

XSEDE Training Events

- [September 3-4 - MPI](#)
- <https://portal.xsede.org/course-calendar>

Petascale Computing Institute



- TODAY!
- August 19-23, 2019
- Keynote speaker: Gordon Bell.



• <https://bluwaters.ncsa.illinois.edu/petascale-computing-2019>

Blue Waters Hackathon




- IN LIMBO!
- September 9-13, 2019
- Location: NCSA, University of Illinois at Urbana-Champaign
- Not just a GPU hackathon!

<https://bluwaters.ncsa.illinois.edu/bw-hackathon-2019>

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](#).
- Make sure to [RSVP on Facebook](#) and on the [Blue Waters Portal](#)
- We welcome suggestions for topics that will benefit the petascale community. Send your suggestions to bw-eot@ncsa.illinois.edu.

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