Blue Waters User Monthly Teleconference
Agenda

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

• 9/18/2019 – Increase in concurrent Globus transfers to/from ncsa#Nearline from 3 to 5.

• 10/1/2019 - Nearline endpoint to be “read-only”.
  • Consult your data management plan.
  • We can entertain some changes in quotas.
  • NCSA Globus Online license supports AWS and Google Drive (Academic) connectors.

• Default PE change postponed till end of Blue Waters NSF operations (12/19/2019).
Scheduled Outages

• 9/12/2019 – 7 hour unavailability for systems software testing of schedulers. Expect to see another testing period.

• 9/17/2019 – Updating of database backend might impact “usage” command and “managing users” on the portal, from Noon to 2 PM Central.

• 9/28/2019 – Building electrical work to impact portal from 7AM to Noon Central time.
Recent Changes

• 9/1/2019 – New ‘noalloc’, or no-allocation queue for eligible users/projects.
  • Project must still be on Blue Waters.
  • Project must be out of allocation.
  • Jobs in queue have very low priority and are preemptible after 1 hour.
Usage, Utilization and other Items

- Overall Utilization since last user call

BlueWaters Utilization (%)

XE Utilization for this Period

- Busy: 79.5%
- Idle/Draining: 1.3%
- Idle/Unreserved: 11.2%
- Down: 8.0%
- Unknown: 8.0%

Full System Utilization for this Period

- Busy: 61.3%
- Idle/Draining: 9.1%
- Idle/Unreserved: 28.9%
- Down: 0.0%
- Unknown: 0.0%

XK Utilization for this Period

- Busy: 90.9%
- Idle/Draining: 0.0%
- Idle/Unreserved: 0.0%
- Down: 0.0%
- Unknown: 0.0%

BlueWaters Trend Line: (-0.03x +82.76), R-Squared=0.000442
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.

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Workload Details

- Data combines XE and XK jobs.
- Look for return of large XE jobs.
XSEDE Training Events

- [https://portal.xsede.org/course-calendar](https://portal.xsede.org/course-calendar)
Blue Waters Hackathon

• Cancelled.
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 😊), 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