

# NUG Monthly Meeting



December 15, 2022



# Today's Plan

- Interactive – Please participate!
  - Raise hand or just speak up
  - NERSC Users Slack – discussions in the **#webinars** channel
- Agenda:
  - Win-of-the-month
  - Today-I-learned
  - Announcements/CFPs
  - Topic of the day: **Allocation Year Transition**
  - Coming meetings: topic suggestions/requests?
  - Last month's numbers

# Win of the Month

Show off an achievement, or shout out someone else's achievement, e.g.:

- Had a paper accepted
  - Solved a bug
  - A scientific achievement (maybe candidate for Science highlight, or High Impact Scientific Achievement award)
  - An Innovative Use of High Performance Computing (also a candidate for an award)
- [\(https://www.nersc.gov/science/nersc-hpc-achievement-awards/\)](https://www.nersc.gov/science/nersc-hpc-achievement-awards/)

Please let us know of award-worthy work from you or your colleagues – tell us what you did, and what was the key insight?

# Today I Learned

What surprised you that might benefit other users to hear about?  
(and might help NERSC identify documentation improvements!)

E.g.:

- Something you got stuck on, hit a dead end, or turned out to be wrong about
  - Give others the benefit of your experience!
  - Opportunity to improve NERSC documentation
- A tip for using NERSC
- Something you learned that might benefit other NERSC users

"If we knew what it was we were doing, it would not be called research, would it?" – Einstein<sup>1</sup>



<sup>1</sup> Apocryphal, but the point stands! 4



# Announcements & CFPs

See weekly email for these and more:

- **Calls for Participation**
  - **James Coronas Award in Leadership, Community Building, & Communication**,  
<https://www.krellinst.org/about-krell/corones-award>, due December 31
  - **DOE Computational Science Graduate Fellowship**,  
<https://www.krellinst.org/csgf/>, due January 18
- **Upcoming Training Events**
  - **[IDEAS-ECP Webinar](#) on "Openscapes: Supporting Better Science for Future Us"**, January 11

# Announcements & CFPs

See weekly email for these and more:

- **Cori to Perlmutter Transition Office Hours**
  - We've held 5 office hours, met with 90+ users
  - Additional Office Hours scheduled for
    - **Tomorrow**, December 16
    - Friday, January 6
    - Thursday, January 12

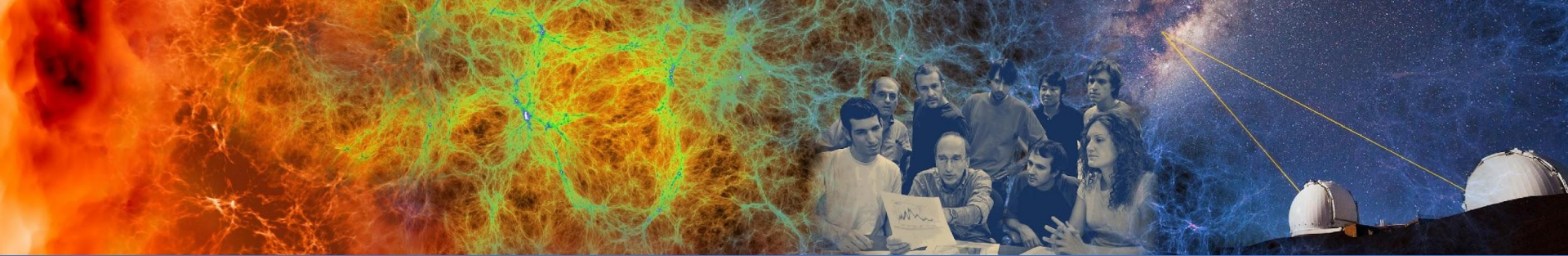
# Announcements & CFPs

See weekly email for these and more:

- **Careers at NERSC**

- We're hiring for many positions, including
  - [HPC User Environment Architect](#)
  - [Science Engagement Engineer](#)
  - [HPC Consultant](#)
  - [Data Science Workflows Architect](#)
  - [Machine Learning Postdoctoral Fellow](#)
  - [HPC Architecture & Performance Engineer](#)
  - [NESAP for Simulations Postdoctoral Fellow](#)
  - [HPC Performance Engineer](#)
- See <https://lbl.referrals.selectminds.com/page/nersc-careers-85> for list of all open positions at NERSC!





# Allocation Year Transition





# Outline

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- AY2023 Allocations
- AY Transition Process
- On the AY2023 Start Day
- Changes in AY2023
- Discontinued Users

# AY2023 Allocations



- **AY2023: Wed, Jan 18, 2023 - Tue, Jan 16, 2024**
  - AY2022 allocation hours do not carry over
- Allocation award emails go out the week of Dec 12
- Each project has **separate CPU and GPU awards**
  - CPU allocation for Cori and Perlmutter CPU
  - GPU allocation for Perlmutter GPU
- AY2023 charge starts on Thur, Jan 19

# What Happens at AY Transition?



- Iris needs to be updated with the new AY2023 allocation data: projects, users, CPU, GPU and HPSS storage allocations awarded, etc.
- Computational systems need to sync up with the Iris active users data and clean up batch jobs that do not have AY2023 allocations
- System maintenances
- Some other changes: policy, software, ...
- More information:
  - <https://www.nersc.gov/news-publications/announcements/allocation-year-transition-2022-to-2023/>

# Shortly before AY2022 starts ...



- No new user account creation/validation: Jan 11-17, 2023
- No new AY2022 project requests (via ERCAP) after Oct 3, 2022
- Before end of AY2022 (deadline is Jan 13, 2023):
  - **Pls must nominate** which users will **continue** in project in AY2023
  - **Pls must check/update** which users will have “**premium**” QOS access for AY2023
    - previous year's allowed list is inherited
  - Instructions at:  
<https://docs.nersc.gov/iris/iris-for-pis/#set-your-user-list-for-the-next-allocation-year> (API in IRIS via “Roles” tab for this feature will be available soon)
- Pls/users may want to **check “premium” jobs** currently in the queue and update to “regular” QOS to avoid:
  - unwanted 2X charge (if such jobs run in AY23)
  - jobs being deleted (if the user is not continued or enabled for premium)

# On the AY2023 Start Day (1)

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- **Iris: Jan 18, 7am - 9:30 am**
  - Logout and login to reflect new AY data
- **Cori: Jan 18, 7am - 8 pm, scheduled maintenance**
- **Perlmutter: No downtime**
  - May experience some Slurm commands slowness while syncing with Iris
- **All other systems and services are up**

# On the AY2023 Start Day (2)



## These jobs will be deleted on Cori and Perlmutter:

- Jobs associated with non-continuing projects
- Jobs associated with a continuing project that the user is no longer a member of for AY2023
- "premium" jobs from users who no longer have access to the "premium" QOS
- "overrun" jobs
- Held jobs older than 12 weeks

- **PIs should check/update CPU and GPU allocations allowed for each user in Iris once AY23 starts**
  - Hours or percentages allowed for each user are inherited from AY22 settings
  - Pay special attention to GPU allocations, most of them are at 100% for AY22 (and inherited to AY23)



# NERSC User Code of Conduct Takes Effect



- NERSC's Appropriate Use Policy is being updated for AY23 with the addition of a [User Code of Conduct](#), designed to establish community norms for how we (NERSC staff, ~9000 users, vendors, speakers) interact with one another, and foster the collaborative culture of respect, fairness, and inclusion
  - emails, slack, tickets, trainings, docs, conferences, working groups, clubs, meet-ups, etc.
- We will require all users to agree to these new terms
- Users should attest by accepting the terms of the agreement when logging into Iris after Jan 18
- Any user who does not complete this task by Feb 20 will be considered a "discontinued user" and their account will be deactivated
- More info: [FAQ page](#), [NUG Nov 2022 talk](#)

# Cori to be Retired in March 2023

- **Oct 2022:** Software freeze (no new user-facing software installed by NERSC)
- **AY 2023:** All allocations based on Perlmutter's capacity only
- **Nov-Jan:** Cori to Perlmutter transition training focus & office hours
- **Late Jan or early Feb:** Announce **final date (T)** for decommissioning
- **T - 1 week:** Implement reservation, preventing new jobs from running effective T
- **T:** Delete all jobs from queue, no new jobs can be submitted; continue to allow login to retrieve files from Cori scratch
- **T + 1 week:** Close login nodes permanently
- **T + 1 month:** Disassembly begins

# Discontinued Users



- Users with no active project are “discontinued”, effective AY2023 starts on Jan 18, 2023
- Users who have not signed new AUP/Code of Conduct by Feb 20 will be considered discontinued
- Have limited login access to authorized systems until Feb 20, 2023 to clean up data, but can not run batch jobs
- Have write access to HPSS until Feb 20, 2023, then read-only access and delete access until July 20, 2023



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# Coming Up

- **January:** Plans for user community engagements
- **February:** TBD

We'd love to hear some lightning talks from NERSC users about the research you use NERSC for!

# Last Month's Numbers

- Cori Utilization: 95.5%
- Large Jobs: 55.5%
- New tickets: 694
- Closed tickets: 748
- Ticket backlog: 652