NERSC User's Group (NUG) Community Call

05 December, 2024

Science Engagement @ NERSC

Lipi Gupta, PhD

Science Engagement Engineer in the User Engagement Group (UEG) at NERSC

Background: PhD in Physics, University of Chicago

Research Interests: applying Machine Learning techniques to improve particle accelerator operation and control

Eating Preferences/Fav Foods: any noodle based dish!

Favorite Sci-Fi Movie: The Martian (2015 - Matt Damon and Jessica Chastain)

Charles Lively III, PhD

Science Engagement Engineer in the User Engagement Group (UEG) at NERSC

Background: PhD in Computer Engineering, Texas A&M University

Research Interests: Energy-Aware Computing, Performance Modeling and Optimization, Applications of Game Theory

Eating Preferences/Fav Foods: Vegan but seafood on rare occasions

Favorite Sci-Fi Movie: Contact (1997 - Jodie Foster and Matthew McConaughey)

Today's Pipeline

- Interactive - please participate!
  - **[NERSC User Slack](#)** (link in chat)
  - **#webinars** channel
- Agenda:
  - General NERSC Updates/Announcements
  - Topic(s) of the Day:
    - Best Data Practice at NERSC
      - Lisa Gerhardt, PhD - Big Data Architect @ NERSC
      - Lisa Claus, PhD - HPC Performance Engineer @ NERSC
      - Steve Leak, PhD - HPC Storage Infrastructure Engineer @ NERSC

Announcements - Calls for Participation

Please see the Weekly Email for Links!

- ## User NERSC User Survey Is Open!

  - The annual NERSC user survey for Allocation Year 2024 is open! The survey is being performed by a company called National Business Research Institute (NBRI), with expertise in conducting accurate, reliable surveys.

- ## PASC25 Call for Submissions Open Through December 16

  - The Platform for Advanced Scientific Computing (PASC) invites research paper submissions for PASC25, co-sponsored by the Association for Computing Machinery (ACM) and the Swiss National Supercomputing Centre (CSCS). PASC25 will be held from June 16 to 18, 2025, at FHNW Campus Brugg-Windisch, Switzerland.

- ## Applications for DOE Computational Science Graduate Fellowship Now Open! (Due Jan 16, 2025)

  - an informational webinar at 2:00 p.m. CT on Thursday, December 10.

Announcements - Meetings/Trainings

Please see the Weekly Email for Links!

- Parallel Computing with MATLAB: Hands-On Workshop, December 10
  - Mathworks will be presenting a hands-on workshop introducing parallel and distributed computing in MATLAB with a focus on speeding up application codes and offloading computers. The workshop will be held virtually from 10:00 am to 1:00 pm PST on December 10.
- (NEW/UPDATED) Kokkos 4.5 release briefing event, December 10th
  - The Kokkos Team is inviting the community to the Kokkos 4.5 release briefing. The briefing will be held online for 1 hour starting on the 10th of December at 11 AM EDT / 9 AM MDT / 5 PM CET.
- Webinar: High-Performance Computing and Software Sustainability: Toward Green Software Development
  - This webinar will take place Jan 15, 2025 from 10 to 11 AM PST and requires free registration.
  - This webinar is part of the HPC Best Practices Series.

Announcements - Scheduled Outages

- NERSC Site-Wide Outage Rescheduled for Week of January 27, 2025
    - A site-wide outage, previously scheduled for the week of December 2, has now been rescheduled to the week of January 27, 2025.
    - An outage of NERSC resources is required while power equipment maintenance and upgrades are being performed. The outage is currently expected to begin in the afternoon (Pacific time) on Monday, January 27, 2025, and conclude on Friday, January 31, 2024.
    - Every effort will be made to minimize the total downtime, but please plan for the fact that Perlmutter will be unavailable for the week, and other NERSC resources will likely be unavailable for extended periods during this outage event.
- We will provide more details as the planning continues.

Announcements - Scheduled Outages

Please see the Weekly Email for Links!

- Perlmutter
  - 11/16/23 06:00-22:00 PST, Scheduled Maintenance
- HPSS Archive (User)
  - 11/15/23 09:00-13:00 PST, Scheduled Maintenance
    - Some retrievals may be delayed during disk cache maintenance.
  - 12/06/23 09:00-13:00 PST, Scheduled Maintenance
    - System down for quarterly maintenance.
- HPSS Regent (Backup)
  - 11/29/23 09:00-13:00 PST, Scheduled Maintenance
    - System down for quarterly maintenance.

Best Data Practices at NERSC

Coming up

Upcoming topics:

- Security @ NERSC
- Community needs/ideas (e.g. new groups/topics, "get to know" <blank>, new docs/training options, career?)
- Other topic suggestions/requests?

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

Nominate a topic at: https://forms.gle/WjYx7zV7SAz2CaYz7

Science Highlights Submission:
https://docs.google.com/forms/d/e/1FAIpQLScP4bRCtcde43nqUx4Z_sz780G9HsXtpecQ_qIPKvGafDVVKQ/viewform

Lightning Talks

Highlights

Until Next Time!

Thank You