NERSC Users Group Monthly Meeting

February 21, 2019
Agenda

- Edison Retirement Plan
- Upcoming NERSC Training Opportunities
Edison Retirement Plan

- Edison will retire on **Monday, May 13, 2019**
  - Edison compute nodes and scratch systems
- Between now and then:
  - Minimal changes will be made to Edison
  - No new software will be installed for users (e.g., no new versions of math libraries)
  - Edison will continue to have monthly maintenances and may undergo an OS upgrade
Edison Retirement Schedule

- **Monday, May 13, 7:00 am:**
  - Edison will be rebooted
  - No user jobs will run after this reboot
  - After reboot, users can still log in and access Edison scratch systems

- **Monday, May 20, 7:00 am:**
  - Edison taken offline for users
  - After this date, all scratch data is inaccessible (Note: home & project directories are mounted on all systems; no need to archive data from these filesystems)

- **May-June:**
  - Edison disassembled to make space for Perlmutter
Edison Retirement Implications

- **Back up your data from Edison scratch NOW!**
  - If backing up to HPSS, use htar to concatenate small files into larger archive files
  - If you need help, please submit a ticket

- **Cori Haswell queues will become even more congested**
  - Now is a good time to try getting your code working on KNL
  - Let NERSC help you:
    - Attend KNL training in April
    - Seek consultant advice through a ticket
Upcoming NERSC Training Opportunities
Upcoming NERSC Training

● NERSC is offering an array of training on many different topics in the next few months

● Upcoming training courses:
  ○ Kokkos Bootcamp
  ○ Edison to Cori KNL transition
  ○ Spin
Kokkos Bootcamp

- Performance Portability with Kokkos: March 26-29
  - Get started (or improve existing code) with Kokkos, a programming model written in C++ that is portable across diverse architectures (including GPU)
Edison to Cori KNL Transition

- Edison scheduled to retire May 13
- Cori KNL Programming & Optimization training
  - 2nd session: Apr 16-18
    - 1st day training by Cray/NERSC; 2nd-3rd day hackathon
Spin

- **Spin**: new Containers-as-a-Service (CaaS) platform at NERSC based on Docker container technology
  - can be used to deploy web sites & science gateways, workflow managers, databases & key-value stores, & network services that to access NERSC systems and storage on the back end.

- **SpinUp training offered quarterly**:
  - Apr/May (registration now open!):
  - July: