NUG Monthly Meeting

18 March, 2021
Today's plan

- Interactive - please participate!
  - Raise hand or just speak up
  - NERSC User Slack (link in chat), #webinars channel

- Agenda:
  - Win-of-the-month
  - Today-I-learned
  - Announcements/CFPs
  - Topic of the day: **Parallelware tools for detecting code optimization opportunities**
  - 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!)

Eg:

- 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
Announcements and CFPs

Basics:
- "Compile" Queue Now Available on Cori!
- Reduction dates this year will be May 4 and September 7, 2021.

Training Events:
- Join ECP for Community Birds-of-a-Feather Days March 30-April 1!
- Sign up for Training on HPC Toolkit on March 29 & April 2!
- Learn to Use Spin to Build Science Gateways at NERSC: Next SpinUp Workshop Starts April 15!

Maintenance:
- 04/21/21 07:00-20:00 PDT, Scheduled Maintenance
- HPSS Archive Maintenance April 11-16 (Sun-Thur); All Data in Archive Unavailable for Duration
Topic of the day:
Parallelware tools for detecting code optimization opportunities

Manuel Arenaz and Javier Novo Rodríguez
Appentra (www.appentra.com)
Coming up

Topic requests/suggestions?

- Eg: Perlmutter overview (non-GPU)?***
- GPU porting guide?

We’d love to hear some lightning talks from NERSC users about the research you use NERSC for!
Last month's numbers - February

Scheduled and overall availability:

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<thead>
<tr>
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<th>Scheduled</th>
<th>Overall</th>
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</thead>
<tbody>
<tr>
<td>Cori</td>
<td>99.9%</td>
<td>98.0%</td>
</tr>
<tr>
<td>HPSS</td>
<td>100%</td>
<td>99.4%</td>
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<tr>
<td>CFS</td>
<td>100%</td>
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Cori: 4 outages (1 scheduled, 1 unscheduled was too brief to be visible here)
Last month's numbers - February

Cori Utilization: 94.0%
Large jobs: 32.5%

New Tickets: 554
Closed Tickets: 603
Backlog at 1 Mar: 571
Thank You