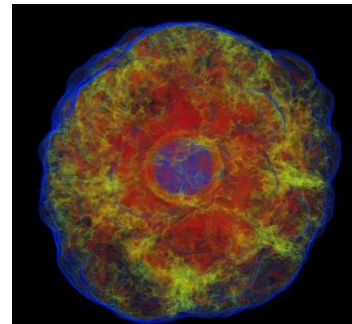
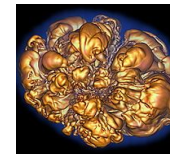
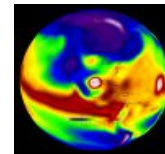
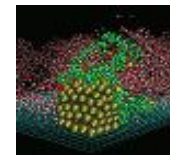
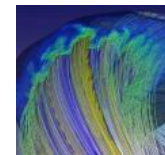
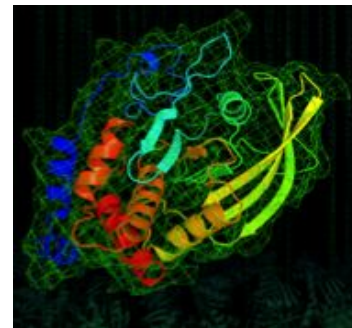
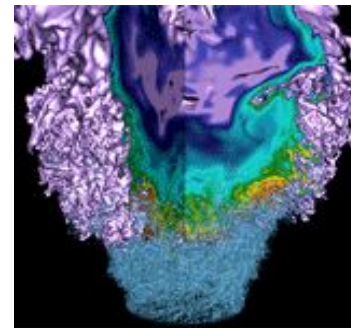


NUG Monthly Meeting



15 July, 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: **Energy Efficiency**
 - 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/>)

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



See weekly email for these and more:

- New Slurm behavior: jobs running multiple things per node now need `--overlap`

```
#SBATCH -N 1  
srun -N1 -n1 --overlap ./thing1 &  
srun -N1 -n1 --overlap ./thing2 &  
wait
```

(most "typical" jobs are not affected by this)

- Upcoming Cori OS update - September
 - New Programming Environment (default modules)
 - Statically-linked executables likely to need re-link

Announcements and CFPs



See weekly email for these and more:

- CFPs:
 - 8th Workshop on Accelerator Programming using Directives (WACCPD 2021)
 - Parallel Applications Workshop, Alternatives to MPI+X (at SC21)
 - SuperCheck-SC21
- Training:
 - ECP-IDEAS webinar: Multi-Institutional Scientific Software Development, August 4
 - CUDA Multithreading with Streams, July 16
 - CMake Training, August 23-26

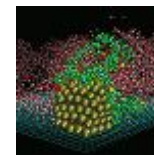
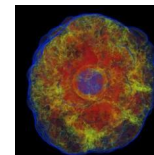
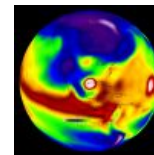
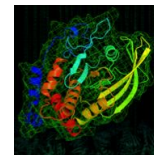
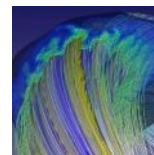
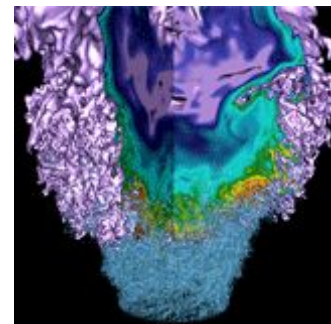
Announcements and CFPs



See weekly email for these and more:

- Software stack: E4S Version 21.02 Now Available on Cori
 - 45 E4S packages, including Adios2, HDF5, PAPI, SLEPc, SuperLU, Tau, and UPCXX
 - `module load load e4s/21.02` - makes E4S modules visible with "module avail", sets up a Spack environment

Energy Efficiency at NERSC



Coming up



August: (tentatively) - walk through the ERCAP process

Topic requests/suggestions?

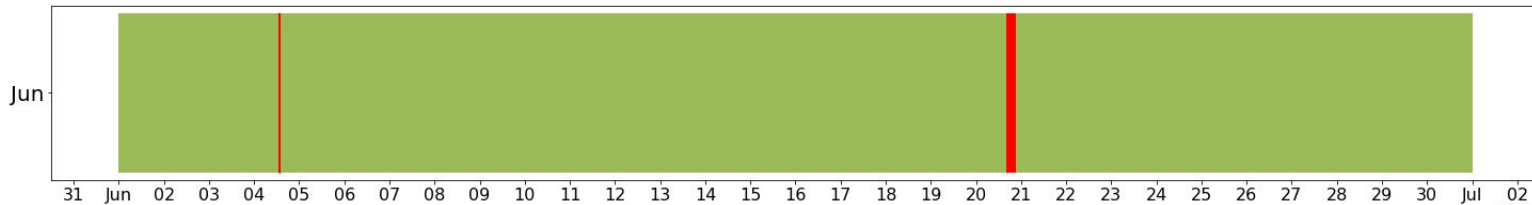
We'd love to hear some lightning talks **from NERSC users** about the research you use NERSC for!

Last month's numbers - June



Scheduled and overall availability:	Scheduled	Overall
Cori	99.8%	99.8%
HPSS	100%	99.5%
CFS	100%	100%

Cori: 2 outages (2 unscheduled totaling 6 hrs 40 min)



System degraded due to cabinet hardware failure

Last month's numbers - June



Cori Utilization: 94.4%

Large jobs: 33.6%

New Tickets: 694

Closed Tickets: 631

Backlog at 1 May: 529



Thank You



U.S. DEPARTMENT OF
ENERGY

Office of
Science

