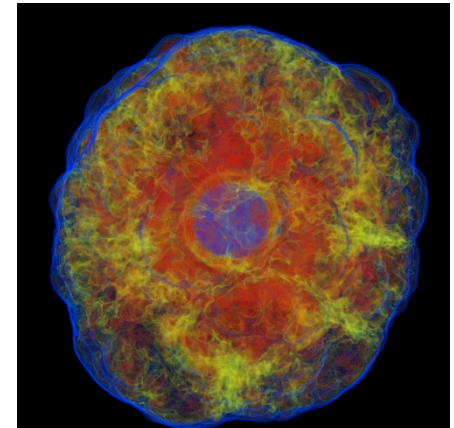
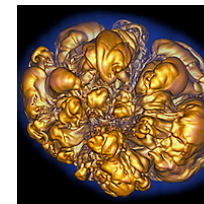
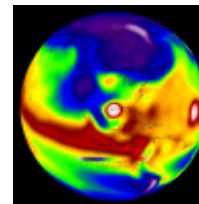
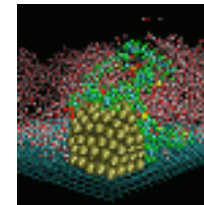
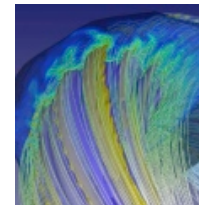
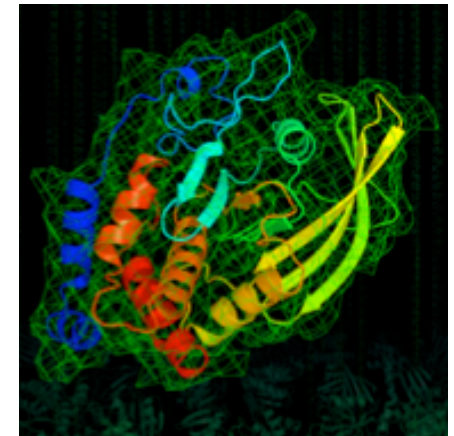
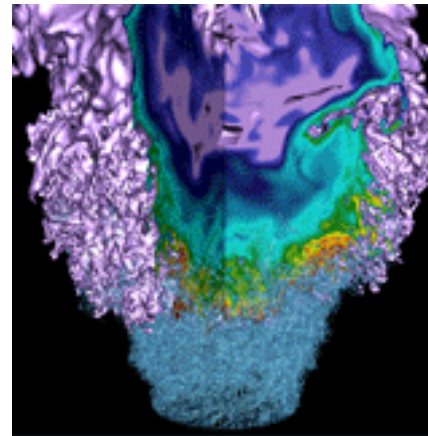


NUG Monthly Meeting – December 2014



NUG Monthly Meeting
December 11, 2014

Agenda



- **ERCAP Awards Announcement Schedule**
- **System Updates**
- **Early 2015 Outage Schedule**
- **Cori Phase I**
- **2015 System Availability Schedule**
- **NUG 2015, Feb 23-26 Berkeley/Oakland**
- **User Survey**

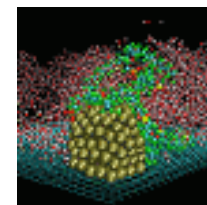
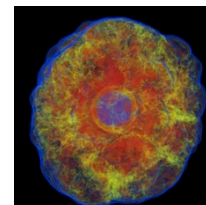
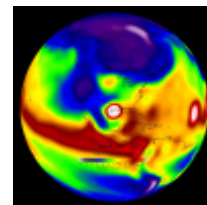
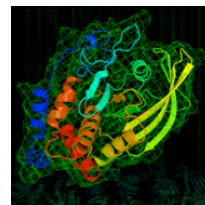
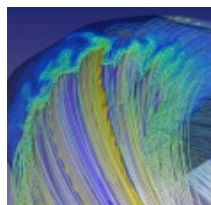
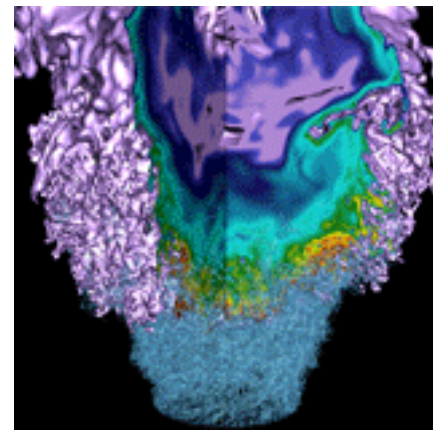
ERCAP Allocations



- **Awards letters will be out by tomorrow, Dec. 12, 2014**
- **Total MPP hours allocated through ERCAP the same as 2014**
 - 2.4 billion
- **Contact your program manager if you have questions about your allocation**
- **New allocation year starts Jan. 13, 2015**
- **ALCC has 300 M hours to allocate at NERSC**
 - Proposals due Feb. 3, 2015
 - <http://science.energy.gov/ascr/facilities/alcc/>
 - July 1, 2105-June 30, 2016

System Updates

Zhengji Zhao, Helen He, David Turner
NERSC User Services



Edison updates



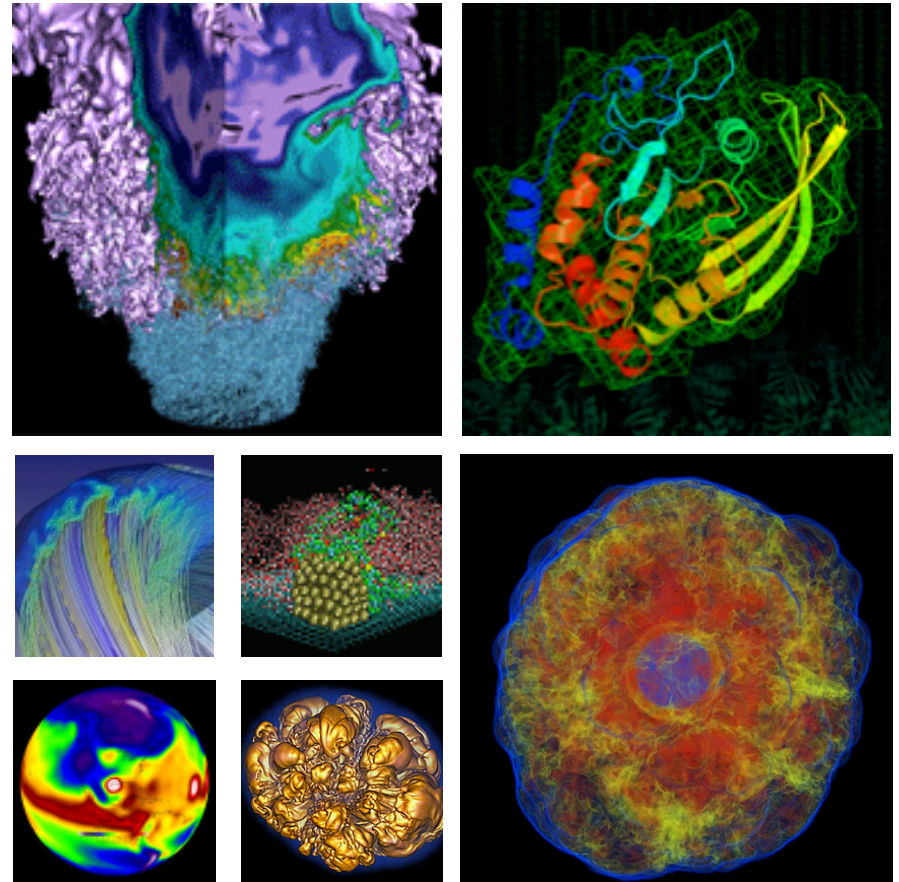
- **Edison training event Dec 16-18**
 - At NERSC OSF facility and online
 - <http://www.nersc.gov/users/training/events/edison-training-from-cray/>
 - Presented by Cray
 - DAY 1: CNL Programming Environment
 - DAY 2: Debuggers, Performance tools
 - DAY 3: Performance tools, Single node optimization, MPI environment
- **Transfer queue now available**
 - For HPSS transfers
 - 12 hour limit; runs on a login node; no charge
- **Edison outage Jan. 13-15, 2015**
 - Memory module upgrades: Memory BW +14%
 - Miscellaneous software updates

- **File system upgrade and OS upgrades in January 2015.**
 - Necessary to keep software versions current and system secure.
 - The /scratch file systems will have to be rebuilt and existing data will be lost.
 - You will have to archive files and data you want to keep. We will not back up data.
 - Applications will have to be rebuilt after OS update.

Early AY15 Maintenance

- **Tuesday January 13**
 - AY15 begins
 - No outages expected
- **Jan 13 – Jan 15**
 - Edison DIMM replacement
- **End of Jan**
 - Hopper /scratch2 Lustre upgrade
- **Feb 10**
 - Quarterly Maintenance
 - Center-wide outage
 - Completely off network for a few hours
- **Mid Feb**
 - Hopper /scratch Lustre upgrade
 - May be performed during Feb 11 Quarterly Maintenance
- **End of Feb**
 - Hopper OS upgrade

Allocations and Available Systems in 2015



Katie Antypas
Services Department Head
NUG Meeting Dec. 11, 2014

2015 will be a busy year for NERSC!



- **We are moving back to the main Berkeley Lab campus in a new facility, CRT!**
 - Significantly more computer space and power
 - Closer proximity to science and research divisions
 - Better views of the bay
- **As we've announced previously, there will be some system downtimes associated with the move**
 - We are doing our best to maximize system availability
 - Goal: always have at least one computational system available
 - We will need your patience during the move!

NERSC will have the same number of allocated MPP hours in 2015 as 2014



- **Hopper can not move to CRT and will be retired in place in Oakland**
- **To replace Hopper hours, NERSC is negotiating with Cray for a Phase 1 Cori system**
 - Details (contract) not yet finalized
 - Phase 1 system will be based on the Intel Haswell processor (x86 based follow on to Ivy Bridge that is on Edison)
 - Phase 1 system will have approximately the same capability as Hopper
 - Phase 1 system will be integrated into the full Cori Knights Landing-based system and its Cray high speed internal Aries network
 - Cori file system will be delivered with the Phase 1 system

Rough timeline of system activities

System status	Date
Carver Retires	Sep. 30, 2015
Cori Phase 1 available to users	Sep. 2015
Edison goes down to move to CRT	Oct. 2015
Edison comes back up in CRT	Nov. 2015
Hopper Retires	Dec. 2015
Cori Phase 2 Delivered	June 2016

Key Points!!!

- Compute early in the year!
- Large supply available in ~Sept. 2015 with Hopper, Cori Phase 1 and Edison online
- Dearth of computing around October when Edison goes down

NUGEX Elections Open Through Dec. 31



- Eight seats on NUGEX are up for election
- Vote for up to 8 candidates
- One at-large seat available
- All NERSC users can vote

<https://www.nersc.gov/users/NUG/nugex-elections/2014/>

- **Feb. 23-26, 2015**
- **Site: Berkeley/Oakland**
- **Monday, Feb. 23: New User Training**
- **Tuesday, Feb. 24: Science and Technology Day**
- **Wednesday, Feb. 25: Business Meeting**
- **Thursday, Feb. 26: In-Depth Training**
 - Topics TBD. We welcome your suggestions.

2014 User Survey



- **Opens today, Dec. 11, 2014 through Jan. 12, 2015**
- **Important to NERSC, DOE, and you – so please take the survey.**

<https://www.nersc.gov/news-publications/publications-reports/user-surveys/2014/>



Thank you.