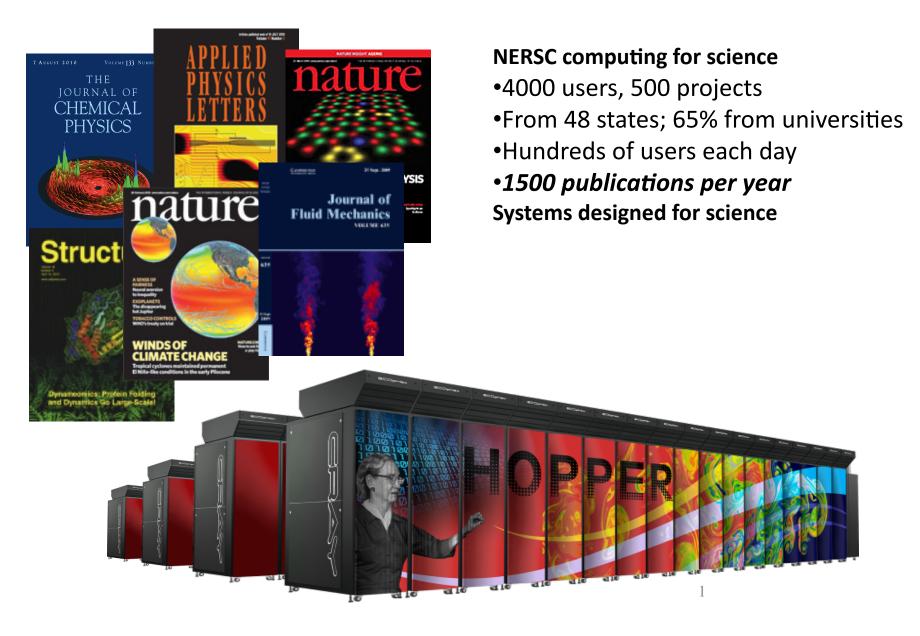
NERSC is the Production Computing Center for DOE Office of Science



NERSC Systems

Large-Scale Computing Systems

Edison (NERSC-7): Cray XC30

• Stay Tuned for Phase 2 Info

Hopper (NERSC-6): Cray XE6

- 6,384 compute nodes, 153,216 cores
- 1.3 Pflop/s peak





Clusters

140 Tflops total

Carver

• IBM iDataplex cluster

PDSF (HEP/NP)

• ~1K core cluster

GenePool (JGI)

• ~5K core cluster

NERSC Global Filesystem (NGF)

Uses IBM's GPFS

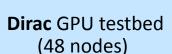
- 1.5 PB capacity
- 10 GB/s of bandwidth

HPSS Archival Storage

- 40 PB capacity
- 4 Tape libraries
- 150 TB disk cache









Getting enabled to run at NERSC

- To be able to run at NERSC you need to have an account and an allocation.
- An account is a username and password
 - Simply fill out the Account Request Form:
 https://nim.nersc.gov/nersc_account_request.php
- An allocation is a repository of CPU hours
 - Good news, you already have an allocation
 - Repo m1266. Talk to me or Dan Martin to get access.





Getting Your Own Production Allocation

- If you have exhausted your CSGF allocation, apply for your own allocation with DOE
- Research must be relevant to the mission of the DOE
- https://www.nersc.gov/users/accounts/
- Builds relationship with DOE program managers



