

# Introduction to Yellowstone

at NWSC

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# Outline

1. Computing at NCAR
2. Yellowstone
3. How to Compile & Run LTR codes

# NCAR Wyoming Supercomputing Center

## Time Lapse of the NWSC Construction Site

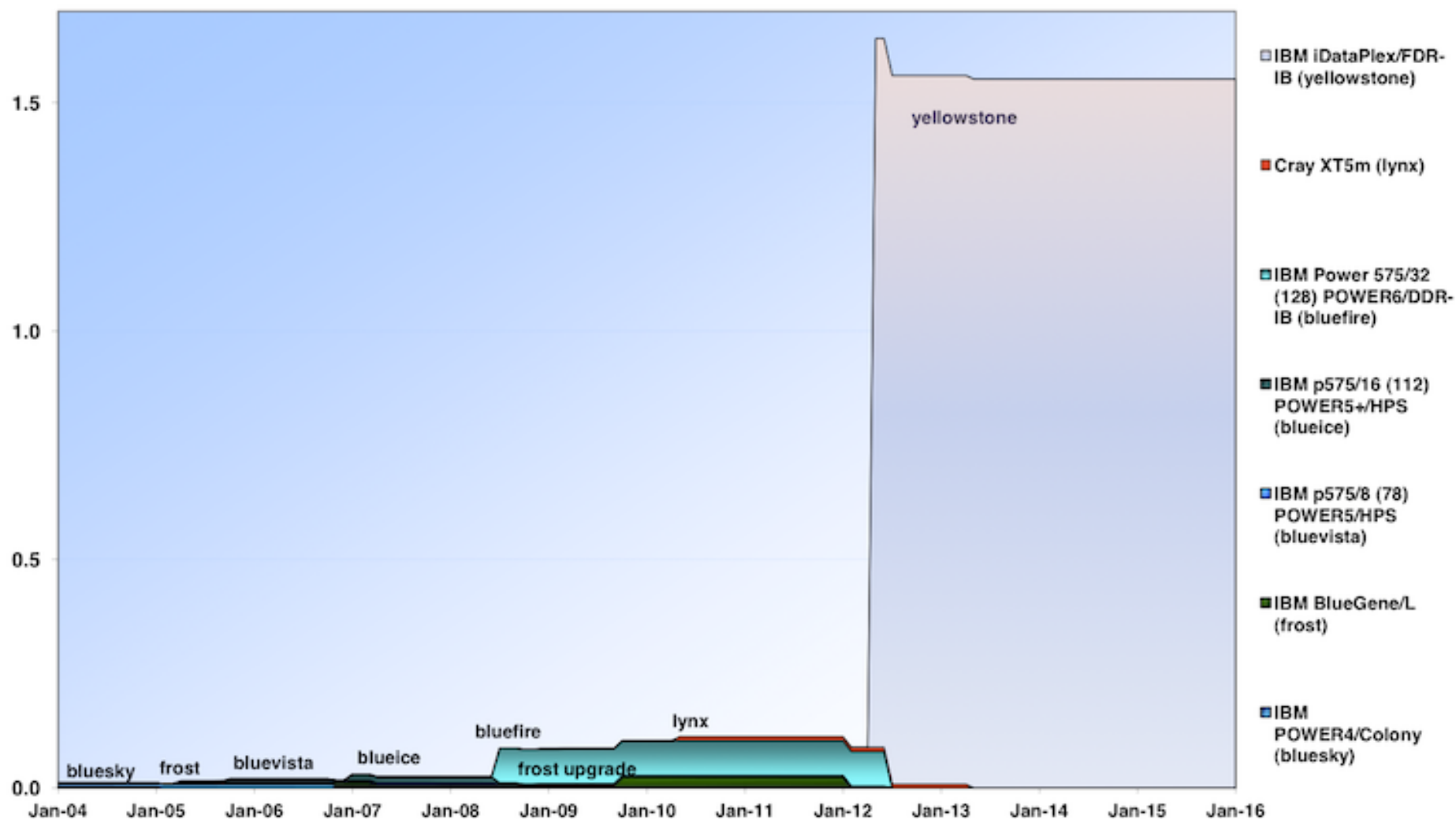
June 24, 2010 - July 1, 2011



# NCAR Wyoming Supercomputing Center

- Yellowstone
  - 72,288 core (16 core/node) -> 4518 nodes
  - Intel processors
  - Low-latency high bandwidth interconnect

## Peak PFLOPs at NCAR

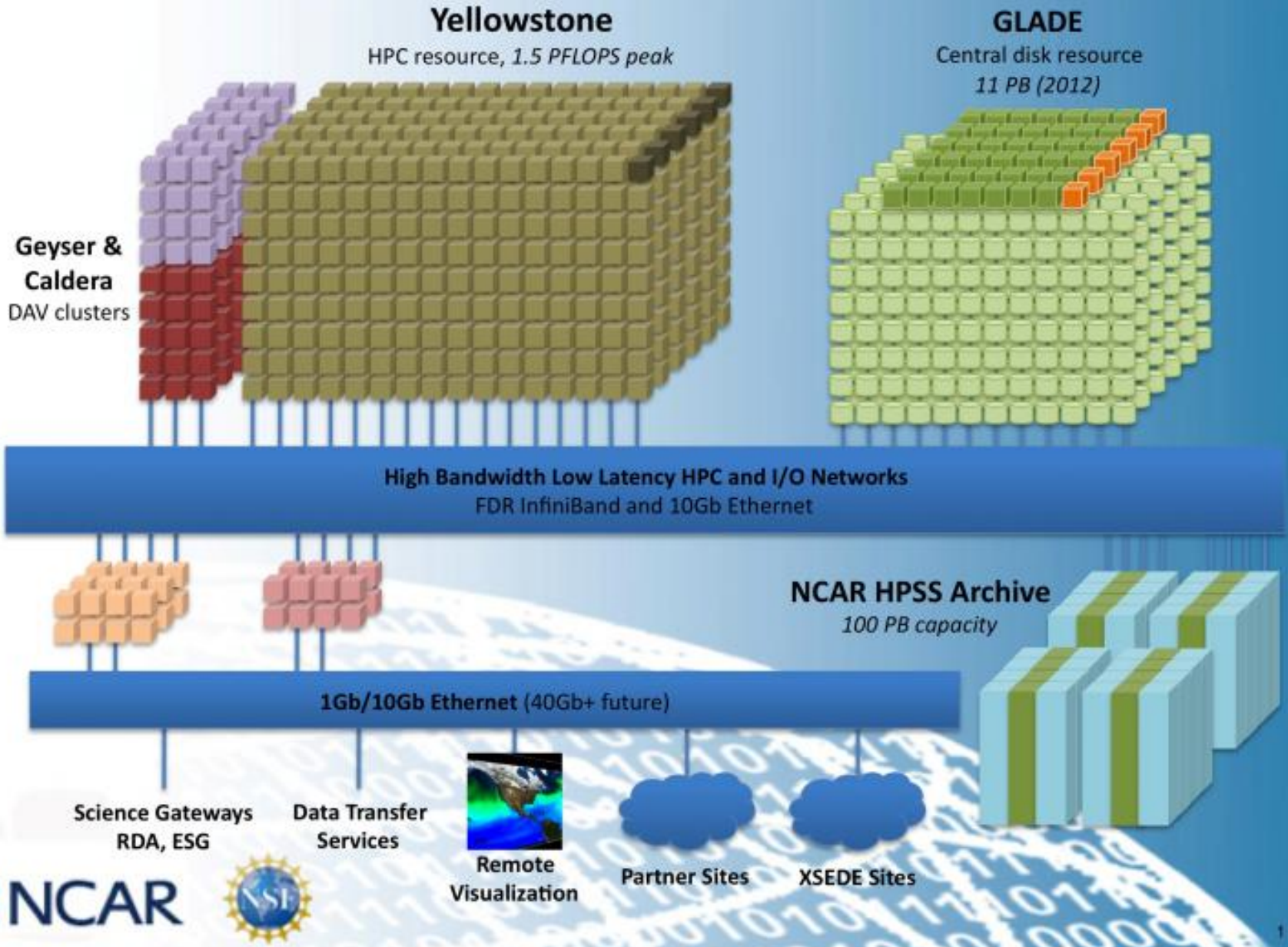


# Mesa Lab

- /ptmp: read-only as of January 14
- Bluefire: January 31
- Mirage & Storm: February 28
- /glade: March 31

# Yellowstone Environment

Computational & Information Systems Laboratory  
**CISL**



# Yellowstone

- Yellowstone, Geyser & Caldera
- <http://sam.ucar.edu>
- Software modules
- File systems
- Compute queues
- ssh username@yellowstone.ucar.edu



# LTR version 2.2.0

- InterComm-2.0
- MakeItSo
- MPMD job scripts
- <https://bugs.hao.ucar.edu/versions/17>

# LTR-2.2.0

- Demo
  - Download
  - Compile
  - Run
  - Post-process