

# NCCS Snapshot November 20, 2006

NATIONAL CENTER  
FOR COMPUTATIONAL SCIENCES



Oak Ridge National Laboratory  
U.S. Department of Energy

# Cray XT4 Arrives at the NCCS



*First 36 of 68 new cabinets arrive.  
Remaining 32 cabinets to arrive November 21 and 22.*

## Next steps

- ❑ New Cray XT4 system passes stabilization and acceptance testing.
- ❑ Jaguar users transition to new system while the existing Cray XT3 is moved to the second floor.
- ❑ XT3 and XT4 combine in early 2007, resulting in more than 100 teraflops.
- ❑ Upgrades later in 2007 allow combined system to reach a peak performance of 250 teraflops.



# ORNL Unveils New Booth at SC06

*SC06 November 11–17 in Tampa, Florida*



New **NCCS booth** features all-electronic content focused on scientific applications and previewing the path to petascale science.

NCCS also displays a cabinet from the new Cray XT4; a live video feed from Oak Ridge provides a firsthand look at the upgrade.



Content from the booth can be seen at <http://www.csm.ornl.gov/SC2006/SC06index.html>.

# Jaguar Makes the Top 10

*TOP500 list places Jaguar as the tenth most powerful supercomputer in the world.*

At **54 teraflops**, Jaguar moves up from the 13th position, ahead of the *JUBL system* in Germany, the *Earth Simulator* in Japan, and the *Stella system* in the Netherlands.



# Lustre Center of Excellence at NCCS



*“Cluster File Systems, Inc. establishes the first Lustre Center of Excellence at the NCCS.”*

Lustre Center to help establish a **petascale** supercomputer at ORNL by the end of 2008 by focusing on three goals:

- ❑ Enhancing Lustre File System scalability to meet performance requirements of petascale systems.
- ❑ Building Lustre expertise through training and workshops.
- ❑ Assisting science teams in getting the maximum I/O performance from their applications.