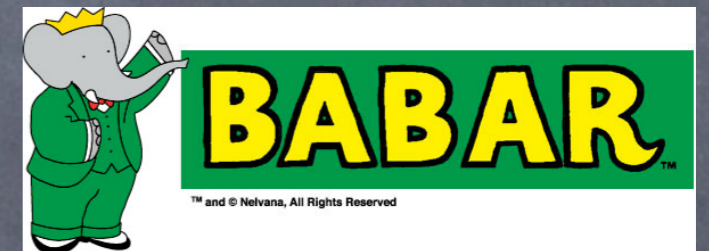


SLAC Site Report

Chuck Boeheim

SLAC Activities

- BaBar just ended a run



- ATLAS Tier 2 awarded



- Kavli Institute



- GLAST launch about 1 year away



- LCLS under construction



Cluster Status

Cluster	Type	Number
Yili <i>New</i>	Dual Dual-Core Opteron 2.2 GHz	153
Cob	Dual Dual-Core Opteron 2.0 GHz	350
Don	Dual Opteron 1.8GHz	256
Tori	Dual Xeon 2.66GHz	384
Noma	Dual PIII 1.4GHz	512

Disk Arrays

Model	TB
Sun T3	110
Sun T4	270
Sun 3511 <i>New</i>	375

Infiniband CLuster

- Planning 150–200 node Infiniband cluster for MPI work.
- 8GB to 16GB memory per node
- Checkpointing large models is a challenge...

Lustre

- Needed for high-performance application
- Testing on 5 node cluster
- Metadata server using Linux-HA with a shared FC array
- Can write 1GB in 33 sec over 100Mb enet; goal is 1GB in 1 sec over Infiniband.

Linux Activities

- Currently support:

RHEL3 / 32-bit	
RHEL4 / 32-bit	RHEL4 / 64-bit
SL3 / 32-bit	
SL4 / 32-bit <i>Soon</i>	SL4 / 64-bit <i>Soon</i>

- 128 new machines running RHEL4 / 64-bit
- BaBar has validated:
 - building production binaries on SL3/32-bit
 - running on both RHEL3/32-bit and RHEL4/64-bit
- RHEL 5?

SSH / K5

- Need to move away from AFS token-passing mod
- Testing ssh 4.4p1 with GSSAPI to pass K5 tickets
- pam module obtains AFS tokens from K5 tickets
- Use of .k5login will supersede ssh keys

Wireless registration

- Needed way to contact owners in a variety of circumstances, and have them sign an AUP
- Had been open network with no controls
- Router redirects to registration server on first contact
- Simple requirements of name/phone/room to connect

Console Server

- Joint work with CERN for improvements
- GSSAPI authentication of clients
- ACLs on individual lines
- Heartbeats over serial lines