Zeus User Meeting

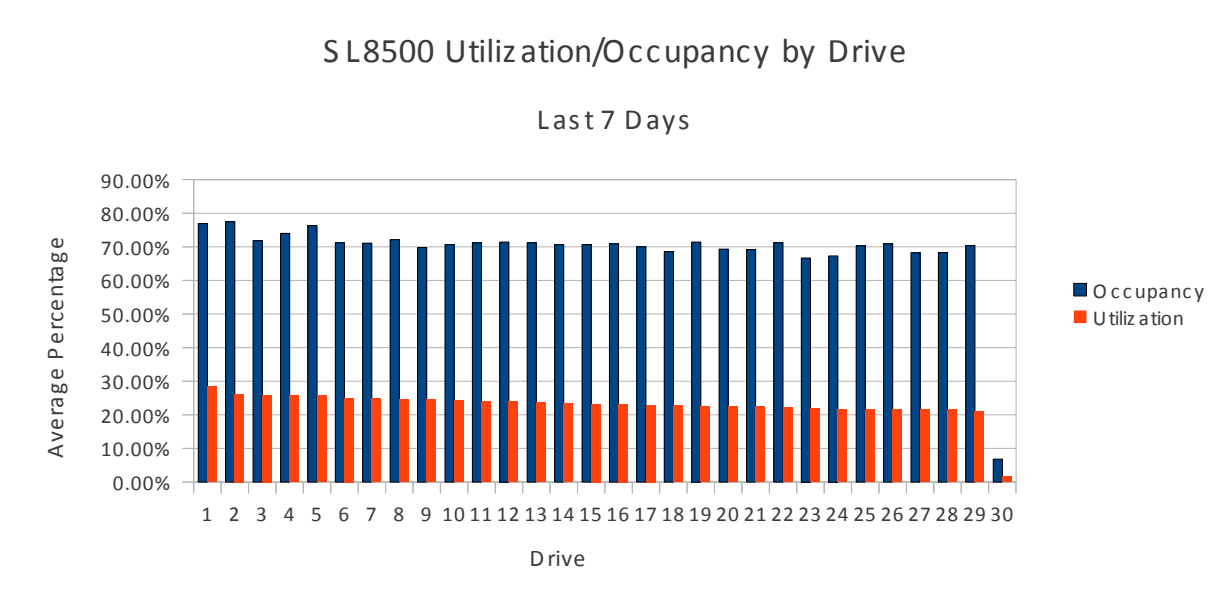
November 7th, 2012

Agenda

- HPSS Status
- Zeus Status
- Upcoming Events
- Known Issues
- Q&A

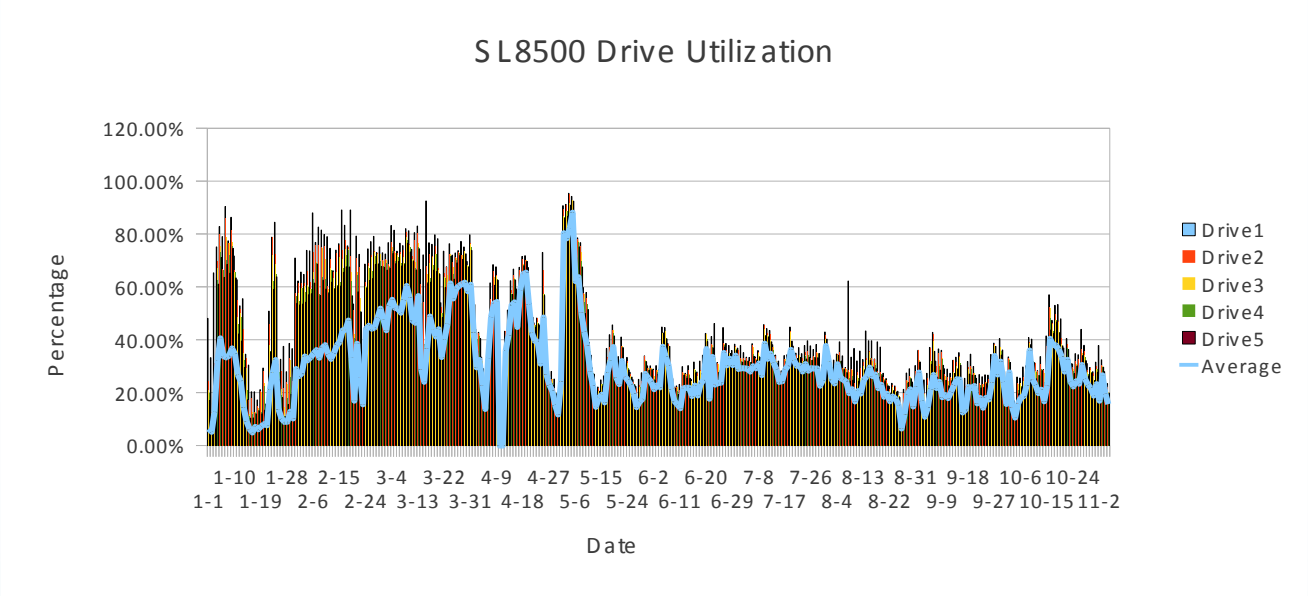
HPSS Status

Drive Occupancy



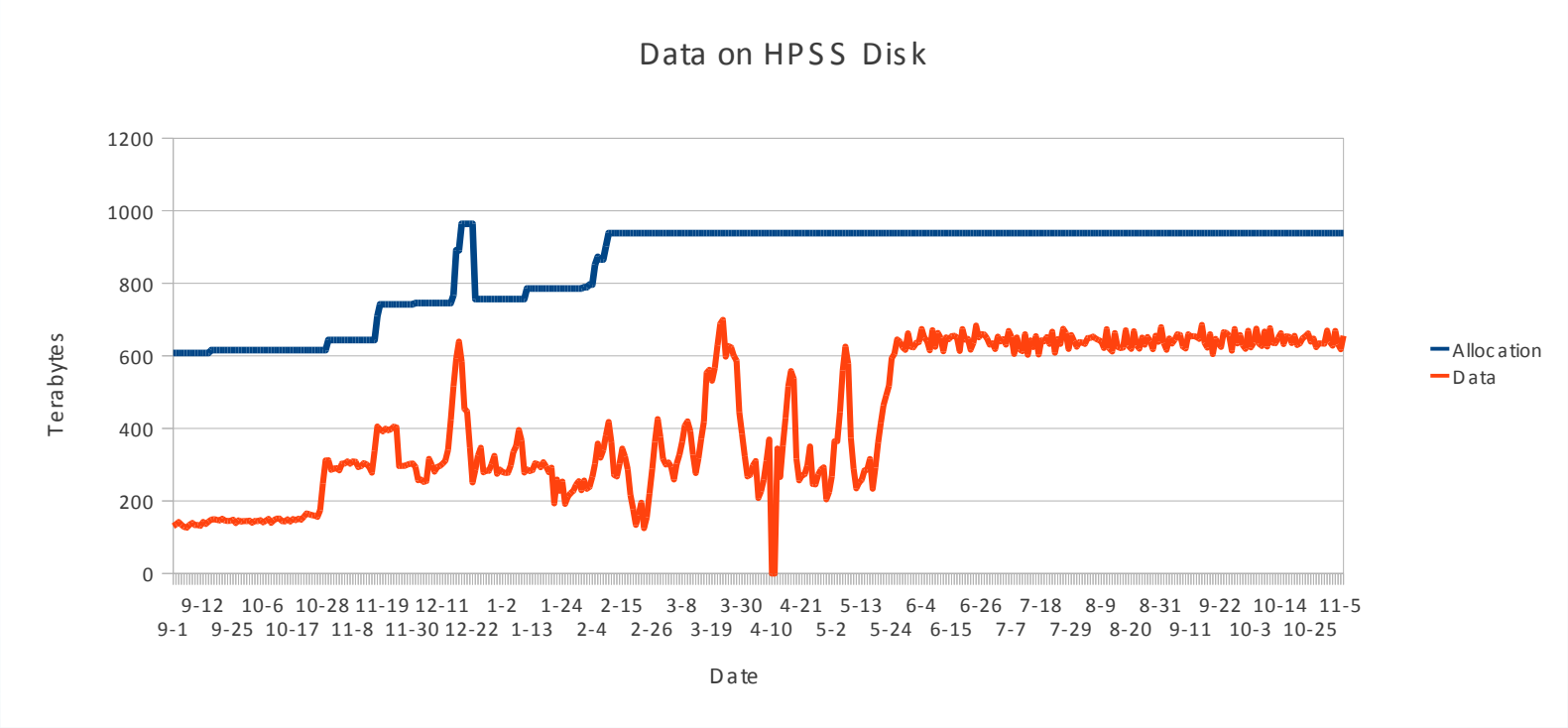
HPSS Status

Drive Utilization (top 5)



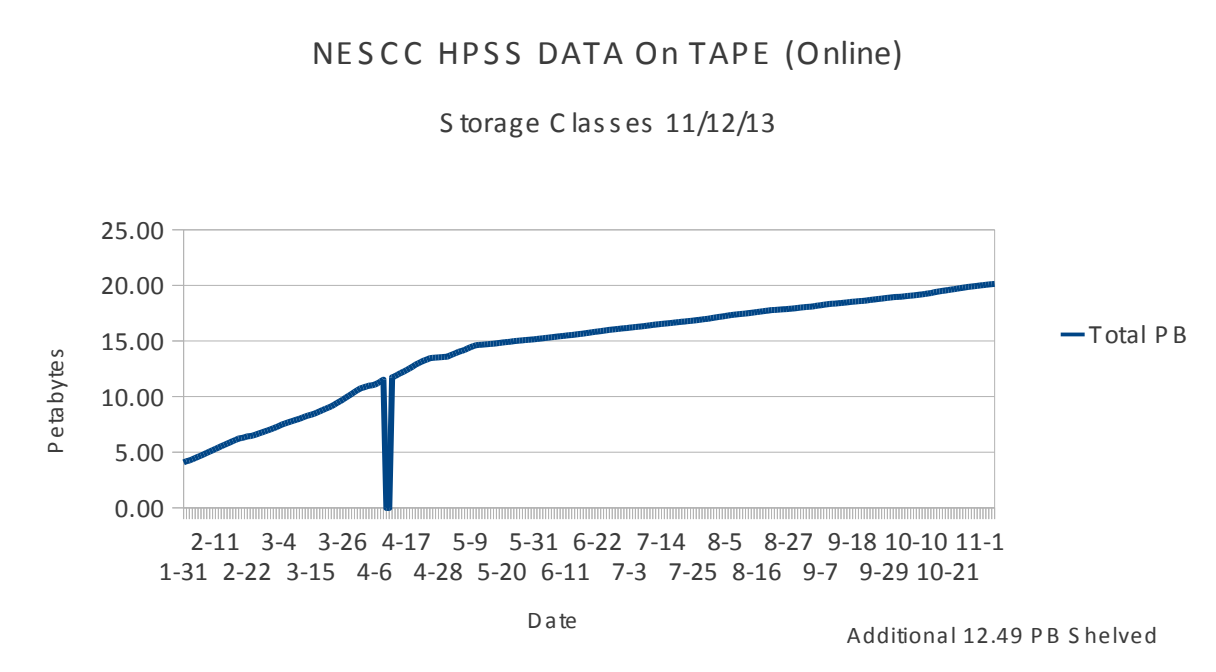
HPSS Status

Data on Cache



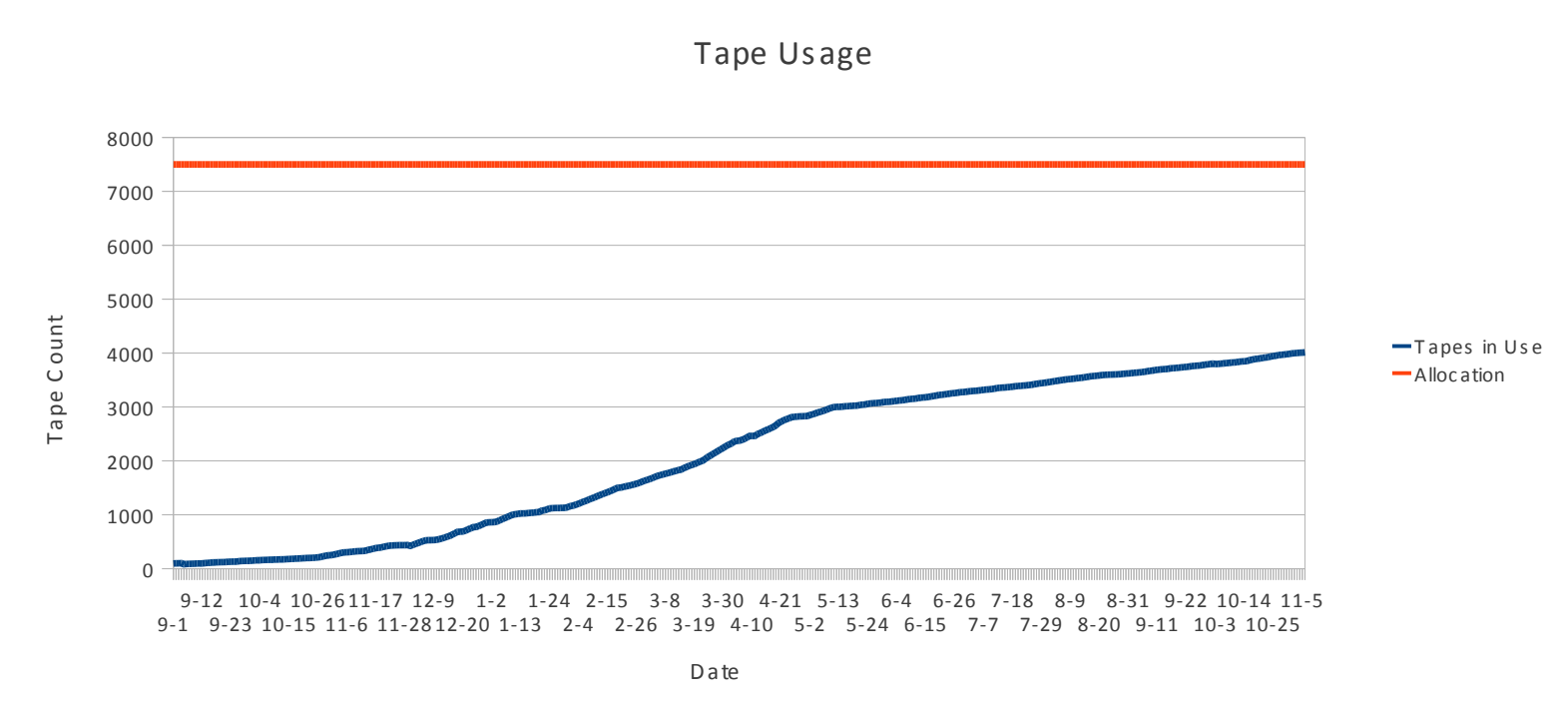
HPSS Status

Data on Tape



HPSS Status

Tapes in Use



Zeus Usage

Last 2 weeks

User	TotalCHrs	TotalJobs	BatchCHrs	BatchJobs	WindCHrs	WindJobs
gfdlccycle	3329158.7	10477	2649660.9	8370	679497.8	2107
gfdloceans	1153215.8	11589	962870.4	10683	190345.3	906
ada	873002.1	43625	720091.6	35563	152910.5	8062
rtfim	735677.6	10747	570013.9	9328	165663.7	1419
nrtrr	488744.2	166077	488744.2	166077	0.0	0
fim	468450.8	1127	468450.8	1127	0.0	0
gefs	466263.8	76509	466263.8	76509	0.0	0
rm	307090.7	19918	307090.7	19918	0.0	0
gsienkf	302688.0	354	197010.7	240	105677.3	114
gfdladcc	284648.4	751	232812.2	615	51836.2	136
gm	277045.1	4040	134977.5	1335	142067.6	2705
rcc21	257420.5	3611	85543.2	1553	171877.3	2058
isp-1	231334.0	427	108651.3	181	122682.7	246

Upcoming Events

- Power & systems work at NESCC (affecting Zeus and HPSS)
  - 4 December 2012
  - Currently planning as day long outage
    - Will have a better time estimate by next week
- Re-IPing NESCC (late January 2013)
  - Setting up for IPv6
  - Will affect external firewalls, etc
  - Will keep you updated as the plan develops

Upcoming Changes to Serial Job Scheduling

- Currently all memory is allocated to serial jobs
  - There is no pad for OS or /tmp
- We will be making a change to the system to use up to all but 4GB of available memory for serial jobs
- Should help prevent random out of memory errors when different users use up all the memory
- If your job uses more than 20GB, please do not run as a serial job
  - Remove vmem request
  - Ask for 2 cores, -lprocs=2, to use whole node
- Qsub will start blocking jobs that request more than 20GB for jobs in batch

Outstanding Issues

- Details of issues and current status can be found at:
  - https://nesccdocs.rdhpcs.noaa.gov/wiki/index.php/Known_Issues

Any Questions?