



WIR SCHAFFEN WISSEN – HEUTE FÜR MORGEN

Nina Loktionova

# Tier3 Status Report

CHIPP and CSCS Meeting, Bern, 4.10.2017

# T3 Overview

- T3 users and home space
- SE
- CE
- Plans
- AOB

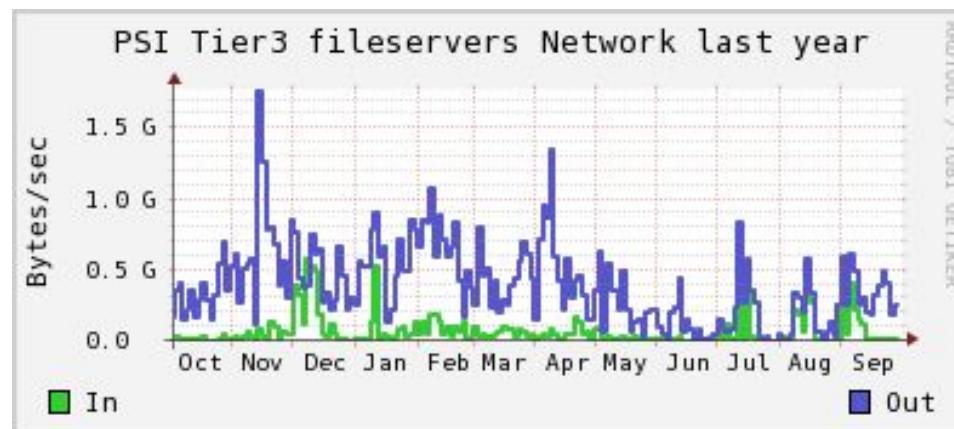
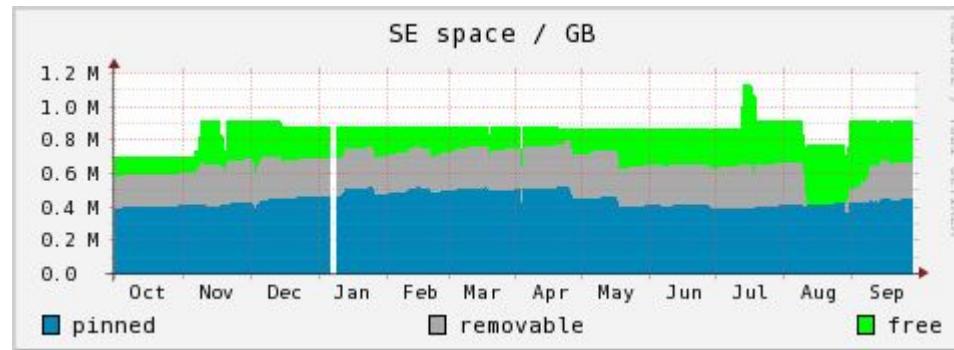
# Home Space

- Cluster was designed for ~50 active users
- ZFS on Linux
- Quota = 400GB (including snapshots), effective ~200GB
- Current number of users ~75 (~ 65 are active on WNs)
- USED = 7.61T FREE = 796G
- Cleaning this year: -10 accounts and +15 new
- ZFS backup: 2 daily snapshots

# Storage Element

- Composition:
  - SGI/NetApp total **518 TB** (free ~ 157 TB )
  - new NetApp, total **248 TB** (read only)
  - old SUNs ~ **154 TB** (read only)
- Reasons for new storage “semi-production”:
  - HP terminated support because of “unsupported HW” (LSI SAS HBAs) .  
BUT we’ve happily tested identical HBA on similar server
  - Server double functionality: storage + backup of home
  - NetApp re-configuration: replacement of SSD-cache to HDs

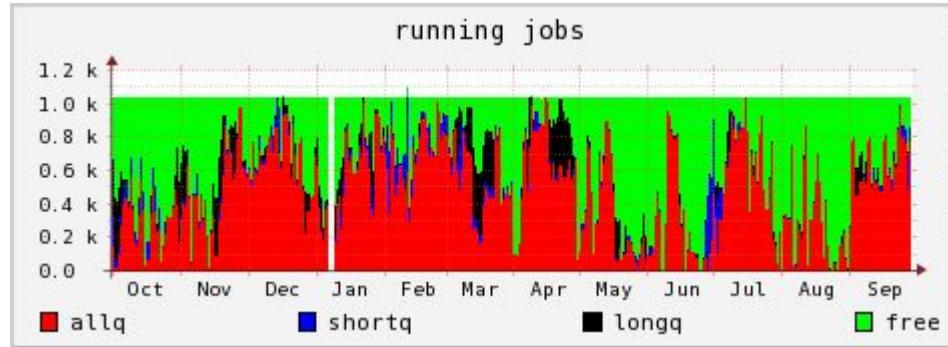
# Storage Plots



HW	N of nodes	Slots (Cores) per node	Memory per Slot, GB	Total N of Slots	Processor type	HP06 Total
SUN Blades	19	8 (16)	3	152	2*Intel Xeon 2.8	2.242
Intel	11	16 (32)	3	176	2*Intel Xeon 2.6	2.630
Super micro	9	32 (32)	3	288	2*AMD Opteron 2.1	2.168
Intel Dalco	9	64 (64)	2	576	2*Intel Xeon 2.3	6.300
Total	48			1.192		13.341

- valid warranty

# CE Diagram



# Plans

- Provide new storage and server nodes
- Structure simplification:
  - reduce the number of OS (Solaris, SL 5, SL 6, CentOS 7 and RHEL 7)
  - get rid of old hardware (SUNs)
  - network infrastructure review
  - reasonable number of functions pro server
- Integration with PSI IT services:
  - puppet and software repo, installation procedure
  - Slurm?
- Documentation update
- T2/CSCS activities support

