

CPUs, Grid Storage and Virtual Services:

WNs/UIs	Processors	Cores/Node	HS06/node	HS06/core	Tot. cores	Tot. HS06
20 * WN SL5	X5560	8	117.53	14.69	160	2350
11 * WN SL5	E5-2670	16	263	16.44	176	2893
4 * WN SL6	AMD 6272	32	241	7.53	128	964
Tot. 36 WN					Tot. ~ 460	Tot. ~ 6200
6 * UI SL6	AMD 6272	32	241	7.53	192	1446

•Missing very old 8 * UI SL5, to be decommissioned during '14.

Systems	TB Net per System
4 * SUN x4500	16
5 * SUN x4540	35
SGI IS5500	260
NetApp E5400	260
	Tot. ~ 760

Virtual Services
Sun Grid Engine master + MySQL DB
Site BDII, dCache SRM, dCache PostgreSQL
Ganglia Web, LDAP Server , Nagios
CMS Frontier (Squid), CMS PhEDEx

PSI CMS Tier3 Report

About the 10 servers got from CSCS installed as 6 * UI SL6 and 4* WN SL6:

- PSI users were demanding **huge** /scratch → I replaced the preinstalled 2*10 250GB disks with 4*10 1TB disks also got in the past from CSCS.
- To create the huge /scratch with 4 disks the options were RAID0, RAID5 or RAID10; I selected RAID10; the 10 servers weren't able to make HW RAID10 but actually they can by using the SW RAID mdadm; the limitation is about **/boot** that must to be installed on a **RAID1**, therefore the servers can boot only from those **2 disks**.
- Result were 10 fast **but** reliable 1.7 TB /scrat
- Kickstart conf <http://pastebin.com/zzYA8AKL>

Future tasks at PSI:

- Our SUN x45XX servers are very old, both our 2 NFS servers and the 9 dCache servers ; we're going to invest ~100K CHF to replace them.
- Need to migrate all the WN SL5 to SL6 during '14 ; there I'll keep on using mdadm.

