Networking upgrades

R510	R510	R510	R510	36bay	R510
R510	R510	R510	36bay	36bay	R510
R510	R510	R510	R510	R510	

C6145	C6145	R510	R510	R510
C6145	C6145		R510	R510

perfsonar		virt	virt
perfsonar		virt	

S48-10	S48-10

6248	6248	6248	6248

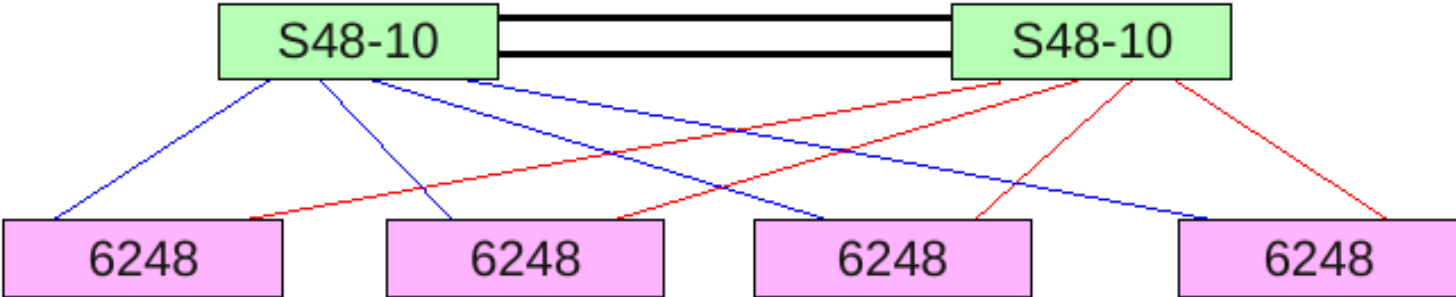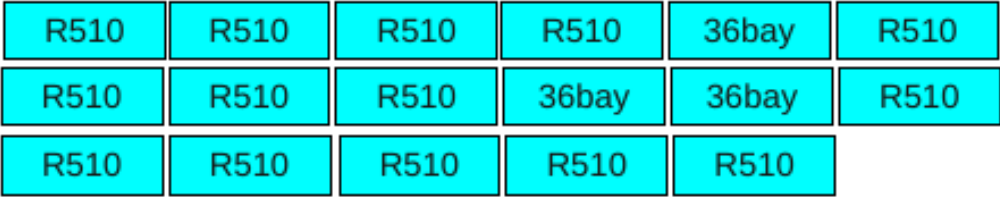| 1Gbit devices |
|---------------|

Recent Worker node generations

- Dell C6100s

  - Four motherboards in 2U, each 2x 6core Intels

- Dell C6145s

  - Two motherboards in 2U, each 4x 16core AMD Opterons.

- Viglen Twin-squared

  - Four motherboards in 2U, each 2x 8core SandyBridge Intels

- Notably not – Dell C6220s, similar to above, but more expensive

Recent storage node generations

- Viglen 24 bay boxes (24x2TB)

- Viglen 36 bay boxes (36x2TB)

  – Initially 6x 1GBit ethernet, now 1x 10GBit

  – Bit slow for the load, possibly because there were only three

- Dell R510

  – 12x disks, each 3TB, each has a RAID controller and a 10GBit ethernet interface. Sadly discontinued.

- Dell R720XD

  – Don't actually have them yet. Current near equivalent of the above. We've managed to get the price comparable by trimming the CPU back to a single quad-core.

General points

- We're not entirely sure how fast the grid storage can go, but we've seen it do ~4TB/second under a real workload, but it's usually up to about 1TB/second

- Current generation worker nodes don't need 10GBit ethernet, but we have it on the 64-core machines