Alternate Disk Vendor Search 2010-11

Oracle/Sun have shut down the thor line of file servers. SLAC needs to find an alternative set of vendors. Here we investigate options and gather data.

Other Labs

- FNAL (12/12/10 source: Steve Wolbers; contact Richard Dubois)
    - Nexsan Satabeast recently
    - they are out to bid for a big CMS order and will share the RFP with us in Jan/Feb
- CCIN2P3 (12/13/10 source: Dominique Boutigny; contact Richard Mount)
    - The solution that we have retained is a DELL Server R510 + 2 extensions MD1200 (54 TB of usable space). The cost is ~0.3 ? / GB. The performances have been measured by our storage experts and are suitable for dCache but may not be enough for intensive xrootd access. I will ask Benoit to send you the quantitative results of the tests.

Industry Specs

- From Stuart (12/13/10), drawn from Linux Magazine

Vendor	Name	Number of Rack Units	Number of Drives	Depth (cm)	Weight	JBOD or RBOD	SATA?	SAS?
Data Direct Networks	S2A 6620	4U	60	103 cm	240 lbs. with drives	RBOD/JBOD	Yes	Yes
NexSan	SATABeast	4U	48	74.93 cm	179 lbs. with drives	RBOD	Yes	Yes (with SASBeast)
NexSan	NXS-60BE	4U	60	NA	NA	JBOD	Yes	Yes
Scalable Informatics	JackRabbit JR-5	5U	48	NA	NA	RBOD/JBOD	Yes	Yes
LSI	Engenio 2600-HD	4U	60	100.965 cm	132	RBOD/JBOD	Yes	Yes