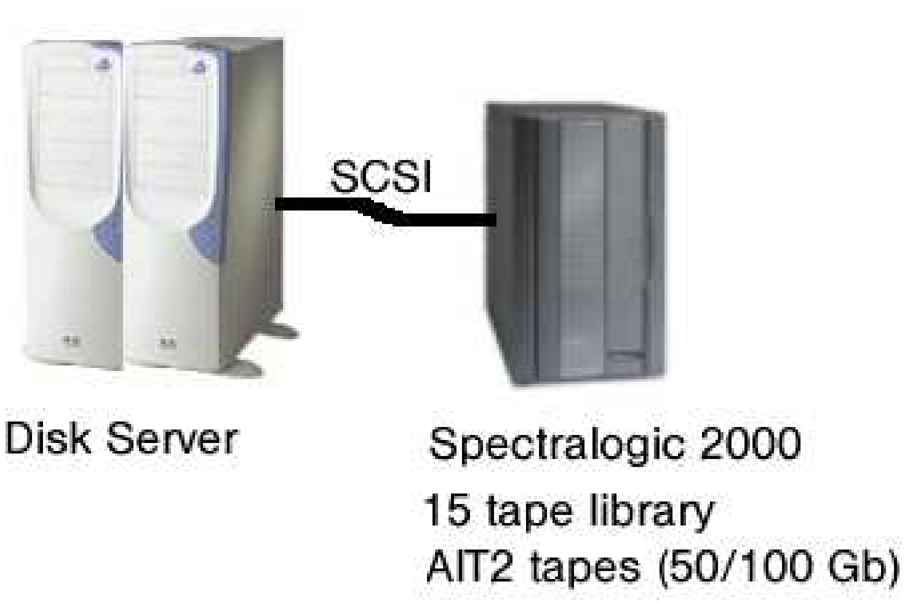
Hardware



Disks: 2Gb root, 30Gb 'system' +
4 x (19Gb home space + 38Gb experimental) on RAID5 disks
+ 200Gb RAID0 data space
Total capacity 460Gb , 292 Gb used

Software

- **Backup:** bru http://www.estinc.com/

- **Library control:** mtx http://mtx.sourceforge.net/
  uses 'Generic SCSI driver'

```
 $mtx status
  Storage Changer /dev/changer:1 Drives, 15 Slots ( 0 Import/Export )
Data Transfer Element 0:Empty
      Storage Element 1:Full :VolumeTag=LAN011
      Storage Element 2:Full :VolumeTag=LAN012
...
      Storage Element 15:Full :VolumeTag=LAN025
```

- **Tape control:** mt (standard)

For convenience I have set soft links
ln -s nst0 /dev/tape
ln -s sg1 /dev/changer

Backup Strategy

- Backup all system and user disks
  - starts 5pm Tuesday
  - ends 6am Thursday.
- Uses 3 tapes
- Records last slot used, - next week starts on a new tape.
- First Tuesday of month, -
  - remove and archive top 3 tapes
  - move the remainder up
  - put 3 new ones into bottom 3 slots.

This is the only routine operator intervention required.

Restore operations

Backup job logs tape label in a file (using barcode reader) at start and end of each file written, so that it can easily be found in order to do a restore.

```
Tue Apr 16 23:20:11 BST 2002 /home/lyth LAN017 LAN017 0
Wed Apr 17 00:06:33 BST 2002 /export/h1 LAN017 LAN017 0
Wed Apr 17 00:30:06 BST 2002 /export/home/h1 LAN017 LAN017 0
Wed Apr 17 04:16:50 BST 2002 /export/aleph LAN017 LAN017 0
Wed Apr 17 06:55:00 BST 2002 /export/home/aleph LAN017 LAN017 0
Wed Apr 17 11:04:04 BST 2002 /export/atlas LAN017 LAN017 0
Wed Apr 17 11:25:54 BST 2002 /export/home/atlas LAN017 LAN017 0
Wed Apr 17 13:25:01 BST 2002 /export/d0 LAN017 LAN017 0
Wed Apr 17 15:21:31 BST 2002 /export/home/d0 LAN017 LAN017 0
Thu Apr 18 06:13:28 BST 2002 /export/data LAN017 LAN019 0
```

Luckily, so far only one restore was required, but it was our biggest RAID array - '/data'. No problem! (cross fingers, touch wood ...)