

## HPSS at SNLA

Data checks in, but doesn't check out...

## Open Environment

- Primary services F30, F50 - HPSS 4.1.1.4
- IBM 3494 (filling fast)
  - Eight 43p, IBM 3590
- Storage Tek Powderhorn 9310
  - Two 590, IBM 3590 (getting old...)
- Disk (non-DCE mover)
  - SUN 220R, T300 - .5 TB (integrating...)

## Open Environment (cont.)

- 29TB Storage
- OC12, OC3, 10/100/1000 Ethernet
- Firewall splits services
  - (This'll leave a bruise...)

## Closed Environment

- Primary services F30, F50 - HPSS 4.1.1.4
- IBM 3494
  - Eight 43p, IBM 3590
- Disk
  - SUN 220R, T300 - .5 TB (integrating...)
- 25TB Storage
- OC12, OC3, 10/100/1000 Ethernet

## Experimenting...

- TP9400
- SGI Origin 2000
- SUN 450

## Some Statistics..

- 3590 tape 8.5/11MB/s (put/get)
- Four stripe 3590 tape 28/40MB/s
- Disk (Sun 420, T300, 1 Gigabit Ethernet)
  - 44 MB/s LAN
  - 36 MB/s WAN (LLNL to SNLA)
    - | No flow control
    - | Overruns
    - | Collapsing TCP window

## Next...

- 44P (WAN mover to SNLL)
- Unitree migration
- ~~9840~~ 9940 Tape drives
- Replace 590's
- Primarily Gigabit Ethernet