Enstore Status Report

Two new hires:
    Tom Jurgens
    Charles Waldman
Note: that SDSS, Auger, etc have been taking effort

D0 side of current Robot being very heavily used:
- SMWG – consultant, 2 DLTs, 1 Mammoth, 2 AITs, ½ Tapes
- D0 – sam development: 5x3 tapes, rest of drives
- Enstore – development: 16x3 tapes

Patrol:
- Now working for Enstore
- Monitoring and restarting processes
- Not a good tool for this, meant for simple admin checks
  starting to get in the way
- Enstore needs direction on what is expected

DESY reports that EMASS internal databases get corrupted
    1–2 times/quarter. This is roughly what Enstore sees.

DESY's disk cache and rate adapting buffer:
- building it as component that we should be able to use
- Will re–evaluate this summer, try to have it inserted by Fall

Investigating threads in Python
- Mostly as a debugging tool
- Petravick wrote a python threaded debugger, tdb

PNFS mods:
- Backups now working
  - not 100% foolproof, no checkpointing
  - very small window of corruption
- Trashcan now working
  - allows interlocking between pnfs and our file clerk info
  - working on undelete capability

Swig:
- Investigating using swig to ease development of wrappers for existing C code –– looks very promising

Error analysis:
- Working on detailed diagrams describing server interactions
- Working on modelling errors

Mover modifications:
- Local Movers being tested
  - no data traffic over IP if user's disk and tape drive are on the same machine.
- Sharing of tape drives – being tested
  - independent Enstore setups can now access the same tape drives

Upgraded 1 linux node to 2.2: early tests indicate better drive and network stability

Deploying mover on sun node to check for driver issues.