

# Offsite linux installs

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# How to set up offsite machines

- Use FNAL RedHat if possible
- You must have ups/upd
- D0 code requires some additional setup.
- Then you can use ups/upd to install new versions

# Advantages of FNAL RedHat

- Mainly security features
  - auto-rpm
  - Turn off dangerous but un-needed services
- Physics code validation
- Ups/upd preinstall
  
- Disadvantage is late release, it's here now.

# Ups/upd

- A suite of tools to do installation and version control for code.
- Allows you to run a code repository with
  - Version numbers
  - Different OS's
  - Qualifiers (KCC, Gcc, threads ....)
- Installation not as trivial as it should be.

# D0 configuration

- Needs work!!!
- Current procedure
- As root need to set up directories for d0 products
- Need to download skeleton tar files
- Then do some configuration of ups/upd
- Then can install d0 products using d0cvs over the network. (Need a fast connection!) (DVD-ROM?)
- You're done

# Status

- Old documentation
  - <http://www-d0.fnal.gov/~schellma/linux/>
- Needs to be updated (real soon)
  - Minor mods just to make it work reliably
- Easier method for install (next month or so)
  - Use bootstrap rpm rather than hand download of d0 config
- Push rather than Pull for weekly updates (longer time scale)

# Offsite example



- Northwestern analysis farm.
  - 14 dual CPU (750Mhz)
  - 144 GB data disk/ machine
- Fermilab farm batch system

Can download full p10.07.01 sample

Run root analysis 10-way parallel