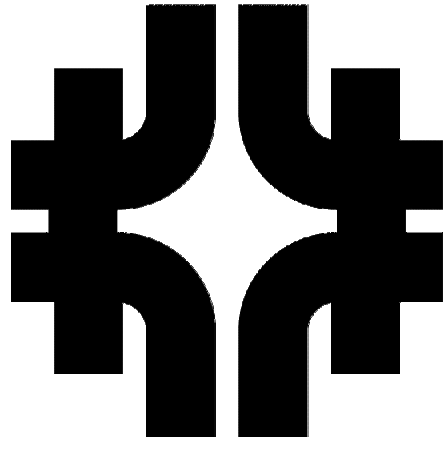


Fermilab Linux Plans



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Fermilab Linux Plans

- Experience with Fermi Linux back to FL 5.0 (1998)
 - <http://www.fnal.gov/docs/Recommendations/dr0010.html>
 - Currently ~ 2 FTE of formal support + active community support
 - linux-users@fnal.gov
 - <http://listserv.fnal.gov/archives/linux-users.html>
 - Take advantage of GPL + other public sources
 - Changes we make (value we add):
 - Add common HEP applications
 - “Fix” things that are broken
 - Fermilab security requirements
 - “Workgroup” customizations
 - These have been discussed in other HEPiX talks

Fermilab Linux Plans

- **Reconstruction & analysis farms are at FL 7.3**
 - Largely driven by Run II experiment requirements
 - But (currently) also the case for CMS & GRID
 - This also drives what is done on desktops
 - Currently “frozen” with security errata from Fedora
 - Fermi Linux LTS 3.0.1 is *not yet* fully certified
 - In the physics application sense
 - No clear indication when experiments are ready to move
- **Servers use commercial Linux**
 - Driven by 24x7 HW & SW support
 - Typically Oracle database servers, plus a few others
 - Red Hat Enterprise 3
 - Typically purchased w/ server (e.g. Dell, HP)
 - Only a handful of systems
- **Plus a little bit of chaos**
 - D0 postdocs run a Fedora desktop analysis cluster (ClueD0)
 - Others do other things (SuSE, ...)

Fermilab Linux Plans

- “Scientific Linux” is:
 - See *Connie Sieh’s excellent talk for technical details*
 - <http://hepwww.rl.ac.uk/hepix/nesc/sieh1.pdf>
 - A natural outgrowth of Fermi Linux
 - And an abstraction layer on top of Fermi Linux
 - “Workgroup” > “Site”
 - Offered to the HEP community as an alternative
 - Much of this is work we would do anyway, others should benefit
 - But, this may not be right for everyone
 - In the spirit of Open Source
 - Conforms to GPL license & Red Hat’s trademark guidelines
 - An opportunity to work together
 - Intended to be a community support effort
 - But this *will* require some formal infrastructure & coordination
 - *Not* an offer by Fermilab to support everyone!