

# DO Offsite Computing

H. Schellman et al.

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# Monday April 10 - 9th Circle

- 9:00 Overview -- Heidi Schellman
- Philosophy and Plans -- Alan Jonckheere
- Linux 6.1 and beyond -- Connie Sieh and Simon Epsteyn
- 10:30 break
- 10:45 ups/upd - Wayne Baisley
- SoftRelTools - Jim Amundson
- MSU experience with Linux 6.1 install - Dylan Casey
- Graphics on Linux – Valentin Kouznetsov
  
- Afternoon - attempt installs and builds on local and remote PC's
- Graphics Demo

# Tuesday April 11 - 9th Circle

- 9:00 Report from France – Laurent Duflot
- Report from Rio
- Report from Holland Kors Bos
- NT and you - Gordon Watts
- 10:45 break
- 11:00 Data and database access Lueking/Greenlee
- 11:30 general discussion and planning

# Goals

- Make it possible for all D0 collaborators to work, wherever they are
- Do so with limited resources at FNAL

## Components

Good procedures

Good documentation

Good communication

Uniformity where possible

Planning for the world, not just local

# Plan

- FNAL central repository
- Offsite locations download when they want to
- All can help with procedures, documentation, scripts, feedback

# Questions

- Hardware
- Operating systems
- Tools
- How to get D0 environment
  - Executables
  - Development environment
  - Graphics
  - Data Access
  - Debuggers?
- Networks

# Machines

- LINUX PC
- NT PC (subset of D0RunII)
- IRIX
- SUNs for some DB work
- OSF1 for DA system (small subset of D0RunII)
  
- Need  $\geq$  256M memory !
- Need  $\geq$  10GB of disk for D0 development!

# Operating systems

- Linux
  - FNAL Red Hat is recommended
  - Otherwise several patches are recommended
  - We are in transition from 5.2 to 6.1

# Tools

- Rpm/auto-rpm (Sieh)
- Ups/upd (Amundson)
- D0 build scripts (Jonckheere)
- Import/export facilities (Lueking)

This is a place where all groups can contribute

# How to get D0 environment

- Need ups/upd/perl
- Need a frame of the D0 RunII enviroment
  - Currently tar files
  - Need to tell ups/upd about it
- Need a bunch of products (more on this)
- Then download recent release
- Binaries
  - Download them from D0RunII-bin
  - rebuild

<http://www.pa.msu.edu/~casey/d0/d0codeinstallation.html>

<http://www-d0.fnal.gov/~schellma/linux/>

# Executables

- D0 code is designed so that you do not need the full release to run an executable
  - MCC99
  - Farms -> see `d0reco/scripts/buildfarmreco`

# The Plan

- Talks and discussion Monday and Tuesday Morning
- Demos and tests this afternoon in 9<sup>th</sup> circle
  - NT build Gordon et al.
  - 6.1 build Dylan, Roger et al.
  - Linux install
  - Graphics

Addition to schedule - Valentin Kouznetsov – Graphics