

# UTA Site Report

DØrace Workshop  
February 11, 2002



# Introduction

- Currently at UTA we have:
  - 48 processor Linux cluster for dedicated DØ Monte Carlo production.
  - DØ “analysis server.”
  - Linux desktop PC’s divided between DØ and Atlas (grid test bed) experiments.



# Server Configuration

- ❑ Intel server board
- ❑ dual Pentium III 1 GHz cpu's
- ❑ 1 GB SDRAM (max. 4 GB)
- ❑ 54 GB SCSI hard disk
- ❑ 300 GB IDE RAID
- ❑ CD-RW, tape back-up, etc.
- ❑ ~\$3500



# Linux Installation

- ❑ Red Hat 7.1 “out of the box” – update the kernel.
- ❑ Several new configuration features compared to RH 6.1, 6.2
- ❑ Device driver support improved in RH 7.x ??
- ❑ Depends...



# Software Installed

- ❑ 'bootstrap' UPS/UPD.
- ❑ cern, root, geant, etc.
- ❑ DØRunII t01.72.00, p11.00.00:
  - upd install DØRunII
  - download & unpack DØRunII-bin
- ❑ External packages as required.



# Documentation on the Web

- ❑ As part of the DØrace project we've begun posting instructions for software installation:

<http://www-hep.uta.edu/~d0race>

(click on "Setting Up A Remote Analysis Station" link)

- ❑ Currently four "phases" with increasing capabilities.



Linux\_D0software\_intro - Microsoft Internet Explorer

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Address [http://www-hep.uta.edu/~d0race/Linux\\_D0software\\_intro.html](http://www-hep.uta.edu/~d0race/Linux_D0software_intro.html) Go Links

# D0race

## Suggestions for Setting Up A Linux System + D0 Run II Software

Much of the information necessary for setting up a Linux PC and installing D0 Run II software has been documented in other locations\*. In this document we hope to update some things, as well as define the "minimum system requirements" necessary to provide a desired level of functionality. Click on one of the links below for details of a given phase plus the instructions for implementation:

Phase 0	<a href="#">PC Hardware</a> <==> <a href="#">Linux Operating System</a>
Phase I	<a href="#">ROOT Analysis</a>
Phase II	<a href="#">D0 Software Release(s)</a>
Phase III	<a href="#">Code Development</a>
Phase IV	<a href="#">Remote Data Access (SAM)</a>

\*see for example <http://www-d0.fnal.gov/~schellma/linux/> and the references contained therein.

Internet

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# Conclusion

- ❑ With some DØ software installed users are now beginning to try out our local system (and report problems...).
- ❑ Compiling setup / installation documentation at [www-hep.uta.edu/~d0race/](http://www-hep.uta.edu/~d0race/)
- ❑ See the DØ release install scripts on the DØrace website – helpful for automating things (thanks John Ellison).
- ❑ Please contact me ([sosebee@uta.edu](mailto:sosebee@uta.edu)) if I can help with anything.

