

Software Installation at Remote Sites

DØRACE Workshop
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Introduction

- ❑ One of the goals of DØrace is easing the task of off-site software installation.
- ❑ Attempt to collect / refine documentation, and post it on the web.
- ❑ Much already existed when we began – build on it.
- ❑ Current system defines “phases” of increasing functionality.



Acknowledgements

- ❑ Heidi's "Professor's Guide."

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

- ❑ Alan's considerable feedback.

<http://www-d0.fnal.gov/software/cmgt/cmgt.html>

- ❑ John Ellison (DØ release installation scripts).

- ❑ Experience of users.



Definition of the Phases

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



More Details of the Phases

- ❑ **Phase 0:** Brief hardware discussion; some words about Linux; UPS/UPD.
- ❑ **Phase 1:** ROOT setup.
- ❑ **Phase 2:** A few UPS/UPD configurations; example of a DØ release installation.
- ❑ **Phase 3:** Enabling CVS access; KAI compiler setup.
- ❑ **Phase 4:** SAM station setup for remote sites.



The Best Breakdown of Tasks??

- ❑ This is one possible way to divide the phases – rearrange / combine as necessary.
- ❑ One suggestion: combine phases 2 & 3.
- ❑ Discussions in this workshop & user feedback should guide decisions such as this.



Preliminaries

- ❑ Register your node for UPS/UPS:
http://www.fnal.gov/cd/forms/upd_registration.html
- ❑ Enable CVS access from your system (Kerberos or ssh – see phase 3 page).
- ❑ Remote SAM stations must be registered – see phase 4 page.



Experience So Far

- ❑ Alan provided useful comments & clarifications to v.1, so the current version is hopefully more complete.
- ❑ Several sites (BU, LA Tech, FSU, KSU, NIKHEF, JINR, others?) have tried out the documentation.
- ❑ **Results:** some successes, but refinement & extensions are required.



Some Missing Pieces...

- ❑ External packages required by DØ releases – I neglected this in v.1
- ❑ Instructions for verifying whether an installation is working correctly.
- ❑ Guidance about versions, when / what to update, removing old packages, etc.



Ways to Improve the System

- ❑ Streamline installation of external packages (see Alan's message from 2/6/2002).
- ❑ Prompt responses to user queries (I'm guilty here...).
- ❑ Try to "automate" the process??
- ❑ Setup an FAQ for installation issues.
- ❑ Others??



Facilitating Other Remote Activities

- ❑ Coming soon: weekly DØrace meetings agenda creation.
- ❑ Web form to specify speakers / titles.
- ❑ Speakers upload their slides.
- ❑ Link on agenda is made active.

(Courtesy Karthik Gopalratnam)



Agenda Creation

SLIDE UPLOAD

LAST NAME:

DATE OF PRESENTATION:

email ID:

Upload File:

DØRACE

HOME PREV UP NEXT

DØRACE AGENDA, JAN-31-2002

News, Action Items, & Plans	Jae
Fermilab PPDG / DØGRID Plans	Igor
SAM Status	Lee

DØRACE Site Reports:

LTU	Dick
BU	Moena
KSU	Tim

Please do not forget to make your own video and audio port request directly to Shiela Cisko at videoconf@fnal.gov
Video streaming service is unavailable indefinitely due to the shutdown of the project.

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Conclusion

- ❑ One goal of DØrace is to assist remote sites with DØ software installation.
- ❑ Documentation is being collected with instructions for setting up a Linux machine to meet a desired level of functionality.
- ❑ Current version is not the final answer – more to come.
- ❑ What improvements (automation, etc.) are desired?
- ❑ User feedback welcome!

