

SAM Offsite Coordination

DØRACE Meeting

May 23, 2002



THE UNIVERSITY OF TEXAS
AT ARLINGTON

Introduction

- ❑ DØ has committed to the goal of integrating the SAM system with emerging “Grid” software tools (Globus, Condor, etc.)
- ❑ Two parallel efforts are underway:
 - ➔ Grid tools & SAM (Gabriele Garzoglio)
 - ➔ Remote SAM coordination (this topic)



Objectives of the SAM Testbed

- Setup SAM stations at remote sites to allow for push/pull of DØ data to/from FNAL.
- Install network monitoring & benchmarking tools (IEPM, etc.) at each remote site.
- Report on our progress at the summer workshop.



Interested Parties (DØRACE workshop sign-up)

U. of Michigan	Lancaster, UK
U. of Oklahoma	Indiana Univ.
IPN Lyon	Boston Univ.
FZU Prague	NIKHEF
Wuppertal, DE	UTA
Imperial College, UK	Others??



How to Proceed

- ❑ Good communication essential -- website, email, (LISTSERV ?).
- ❑ Originally sent out a survey in April to determine the status of remote SAM installations – 2nd round this week.
- ❑ Quick responses appreciated! (thanks Rod & Christian). Summary will be distributed once all sites have reported.



DØ SAM Remote Site Survey

The purpose of this questionnaire is to establish the current level of SAM installations at remote sites. Any comments in addition to your responses to these questions are welcome:

- 1) Is your site currently running a SAM station? If yes:
 - a) how many?
 - b) for how long?
 - c) how is it used (i.e., data access, Monte Carlo production, etc.)

If you answered 'yes' to #1):

- 2) Was the installation straightforward or difficult (or perhaps somewhere in between)? What instructions did you use to guide the installation?
- 3) What problems (if any) have you encountered in using your SAM installation?



4) Any criticisms / suggestions you have based on your experience to date with SAM at your remote site?

If you answered 'no' to #1):

5) Do you expect to setup a SAM station at your site soon, say in the next month or so?

6) Are difficulties in setting up and/or configuring the software a factor in your site not currently running a SAM station? If yes, please provide some details of your experience.

7) Have you set up any of the network tools from IEPM at your site?

Thank you for taking the time to respond to these questions. A summary will be distributed soon.



How to Proceed (cont.)

- ❑ Ensure SAM installation documentation is working for everyone.
- ❑ Provide test routines for remote SAM sites to exercise & evaluate their station's performance.
- ❑ IEPM tools currently being ported to Linux.
- ❑ In the meantime set up PingER (pinger.fnal.gov).
Two options:
 - ➔ UTA serves as a "beacon" site
 - ➔ All sites report to FNAL directly



Documentation on the Web

- ❑ As part of the DØRACE project we've posted instructions for software installation (releases, ROOT, etc.):

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

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

- ❑ **IEPM:** <http://www-iepm.slac.stanford.edu>



Linux_D0software_intro - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address 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	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)

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

Internet



DØRACE Experience

- ❑ During the February workshop (and since that time) a number of remote sites have deployed DØ releases, ROOT, etc.
- ❑ SAM station setup a bit more involved. The documentation at <http://d0db.fnal.gov/sam/doc/install> recently revised and updated.



DØRACE Status (cont.)

- ❑ The modified procedure for installation of DØ releases (4 tier vs. 3 tier) is in place. New system is more robust – less susceptible to network glitches:

<http://d0server1.fnal.gov/users/jonckheere/DØRace/alan-procedure-031402.pdf>

<http://d0server1.fnal.gov/users/jonckheere/DØRace/alan-install-031402.pdf>

- ❑ Aim to post updates / corrections to the DØRACE software installation pages on a regular basis.



Conclusion

- ❑ SAM remote site coordination has the goal of setting up all interested DØ institutions for SAM data access to and from FNAL.
- ❑ Network benchmarking using IEPM (and other) tools.
- ❑ DØRACE setup / installation documentation at www-hep.uta.edu/~d0race/
- ❑ Contact information: sosebee@uta.edu

