

**E907
Collaboration
Meeting**

E907 Simulation & Reconstruction

September 29, 2000

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Performed by**

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Non-controversial decisions : CVS

- If it's ascii (*and worth saving*), it goes in cvs
- Repository sits on aladdin.ucllnl.org:/usr1/e907

- Looks like:

```
graph TD
  mc --- offline
  mc --- src
  mc --- config
  mc --- build
  doc --- prop00["prop00(has complete proposal)"]
  setup
```

- To use it, you need cvs-1.10 or better, ssh, 3-environment variables, and an account on aladdin
- Paperwork for account on aladdin takes anywhere from 1 day to 3 months, depending on citizenship
- cvsweb may be the answer, if not we'll need to move the repository to another site

Controversial decision : automake, autoconf, etc.

- These tools generate Makefiles from a configure.in and Makefile.am files
- PROs - ease of maintenance across platforms and sites, some of us can barely write a Makefile
- CONs - need to install these tools on each platform, poor documentation (book due Oct.), some of us can barely write a Makefile
- Recommendation - use these tools, periodically commit the resulting Makefile.[os]'s to cvs for Ed and others of his ilk, but they will not be “officially” maintained

Monte Carlo Conventions

- Geant 3.2.1
- Directory structure is flat - all source in mc/src, easy to build, easy to debug, easy to grep, sometimes harder to browse
- To build, cvs checkout offline/mc
 - % autogen.sh - can also run from mc/build area
 - % gmake - mc907 executable created in mc/src
- File conventions - for ease of navigation
 - standard geant files, uginit, gustep,
 - for others [detector]_[purpose].[ext]
 - mc907_med.F, tpl_bfld.F, you get the idea

Other MC907 Plans and Conventions

- Nothing fancy. *(A Schubert tune, with a Gershwin touch)*
- Use text input.
- Standard zebra output, convert later.
- Geometry in a single file, at least for top level.
- Immediate goal - geometry optimization for acceptance
- Long term goal - accurate simulation of E907 (of course)