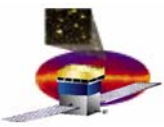


Core Meeting Report

- 17-20 Jan @ SLAC
- Julie, Navid, Heather, Toby, David made the trip

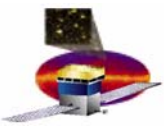
<http://www-glast.slac.stanford.edu/software/MeetingBuilder/MeetingRpt.asp?mtid=3>

- **Topics**
 - Migration to new versions of Root, G4, Gaudi, CMT
 - How to keep up with compiler versions
 - Possibility of MAC support
 - Presentation from Riccardo on MRStudio
 - 2nd generation MRvcmt (plus line mode tools)
 - Discussion of Recon futures
 - Many side discussions
- Really nice to have everyone all together!
- Julie easily won the SAS trivia quiz
- Karen has made a web interface to create/edit meeting agenda pages



Easy Ones

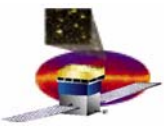
- **Root 5.08**
 - Fully tested on Linux by Heather. Works. Still to test on Windows
 - James will test SciTools
 - Features
 - pyRoot delivered with Root windows binary too, now
 - Oracle support built in (used for SysTests)
 - MAC support
 - Fuller STL support
 - First version with new dictionary (reflex); rootcint dictionary still an option
- **Gaudi v18x**
 - Big changes in python interface
 - Known to build for gcc 3.2.3
 - Uses CLHEP 1.8
 - Since it is an extlib, we can probably use different CLHEPs for if than rest of code if need be.
 - Heather working on this



Easy Ones (cont'd)

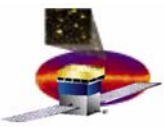
- **CMT v1r18**
 - David has tried previous version - no problems
 - Should keep up
 - Navid is de facto owner of glastpack
 - Glastpack probably should be replaced by line-mode MRStudio
 - Has new feature "Projects" which makes it easier to work on multiple configurations in parallel
- **MRStudio**
 - ab initio, based on MRvcmt experience
 - Separate kernel from gui to allow line mode tools
 - More FRED-like in appearance
 - Ready to try in a couple of weeks

<http://www.fisica.uniud.it/~glast/MRStudio/history.html>



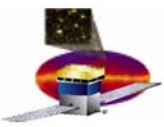
Harder

- **G4 v8.0**
 - <http://confluence.slac.stanford.edu/display/core/Moving+to+Geant4+v8.0>
 - **Biggest problem is CLHEP**
 - Will need to start using CLHEP namespace
 - Perhaps a problem for forward declarations
 - Tracy taking the lead here
 - Had to modify 33 packages to compile
 - Not running yet, but he's probably close
 - There are some small problems known, but we're assuming patches will be available by the time we get there
 - We can maintain our MScat workaround if we need to
 - Would like this in well before beamtest
 - I believe this has alternate hadronic models so we can look at sensitivity of backgrounds to hadronic models



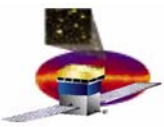
Compilers

- **gcc 3.4**
 - We support 3.2.3
 - 3.4 ships with current linux versions (4.0 on MAC!)
 - 3.4 is more ansii compliant, but can use 3.2.3 binaries, so no need to remake extlibs
 - Navid has set up RM to build using 3.4, but glibc that goes with 3.2.3
 - Tests compiler, but not distributable
 - Will make new copy of extlibs with proper glibc so users with 3.4 can work
 - Model for future compiler migrations
- **Visual Studio 2005**
 - Now available - there is a free version!
 - No problems anticipated (Tracy has been trying it)
 - Will need a tag for it (we grabbed VC8 by mistake)
 - MRvcmt will need to know about it - Riccardo alerted



MAC Support

- There is desire from the Science Tools community to have MAC support
 - Recall it is BSD linux under the OSX hood
 - Strategy was to invest some effort to see how hard it is to do
 - Navid (and others) have succeeded in building the extlibs needed plus SciTools code
 - It all ran with NO code changes for the MAC
 - We do not have a FRED port yet (Navid working on it)
 - The SSC had agreed to contribute to MAC support workload
 - RM will do builds on the small KIPAC MAC cluster in the SLAC farm. Navid expects no difficulties at all there.
- In the meeting there was no sense that MAC support for GlastRelease was needed
 - However I do not like the idea of partial OS support
 - Given the SciTools success (no code mods needed) Navid will continue to acquire the extlibs needed for GR and see how that goes.
 - A side benefit of all this is renewed practice in completely rebuilding the extlibs - I've asked Chuck to make sure the process gets documented.



Recons Discussion

- Tracy, Bill, Eric, Heather, David, Toby

<http://confluence.slac.stanford.edu/pages/viewpage.action?pageId=8912>

I had to bail on this meeting for a pipeline2 discussion...

- No big issues - still some discussion needed on future path of *GlastClassify* and support of non-Bill CTs
- Still should have some discussion of using CTs in *CalRecon* to give best energy estimate to *TkrRecon*