

May 31, 2007

Overview

- · CMT Replacement
- · Event Collections
- O/S Support
 - RHEL4, VS2005, Intel Mac
- Externals
 - Gaudi, Python, ROOT
- The End of EM





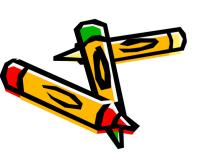
CMT's Replacement

- Current CMT standard is v1r18p20061003
- · The CMT Action Committee continues...
- · Why?
 - No support from CMT developers
 - As of CMT v1r18 move towards CMT projects
 - · Supposedly support will continue for CMTPATH
 - Incorrect Makefile generation for Intel Mac
 - · Results in infinite loops



CMT's Demise Contd.

- Package Structure to be retained.
- Some CMT functions need to be replaced
 - "CMT" co
 - Determining Dependency Tree
 - Show Tags
 - Requirements files and mechanism to set cppflags etc
- Impacts MRStudio, RM, Workbook
- User distributions of SciTools very likely simplified
- There will be no migration until a complete path is demonstrated to work in full.
 - Will be in parallel to start
- Our SSC friends are aware of our potential migration (impacts hmake conversion for SciTools) haven't heard any yelps yet.



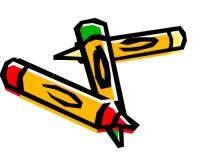
CMT's Replacement Cont.

- The Options:
 - SCons: Python-based http://www.scons.org
 - NPMS: C++ app
- · References:
 - http://confluence.slac.stanford.edu/display/SAS/CMT+Action+Committee



Event Collections aka Pointer Skims

- · Reference:
 - http://confluence.slac.stanford.edu/display/SAS/Pointer+Skims
- ROOT-based meta-data to locate all event data associated with one event.
- LevelO Interleave (MC from previously generated background data), skimming, user analysis



Event Collections

- Tracy has started a reorganization in the HEAD of RootIo to centralize ROOT reading calls.
- David is taking Tracy's start and further cleaning RootIo and moving all ROOT access into a non-Gaudi package such as commonRootData
- For now we have punted on the concept of using a DB to store run/events
- · Heather to introduce a meta-data TTree.
- Tracy working out LO Interleave details, sounds as though the full event collection functionality is not necessary.



O/S Support

- · RHEL4
 - GR Ready to Go as of v11r1
 - Much thanks to Navid & Joanne
- · VS2005
 - Toby has exerted much energy in this direction..currently on hold until CMT replacement strategy is in place
- · Intel Mac
 - Also on hold until CMT replacement is in place



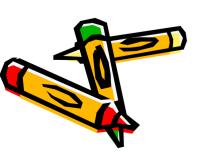
Externals

- Gaudi
 - New "mini"-Gaudi v18r1-gl3
 - Eliminates POOL, SEAL, CLHEP, PI stuck with BOOST - but only "filesystem" libraries
- Python
 - We agreed to upgrade to 2.5
 - This version does not automatically recognize dll extension on windows



Externals Contd

- ROOT
 - Currently v5.14.00d (e waiting in the wings)
 - Our version built against Python 2.5
 - On windows we include a copy of PyROOT.pyd
 - Taught ourselves how to build on windows
 - A lingering issue with vector Double 32>



The End of EM

- Next EM tag will be the last
 - To be used in ETE2 (July 14-17) and TVAC (Sept 20)
 - Based on GR v11rX (any suggestions?) and to include the MOOT keys
- · Pipeline will then use GR production versions
 - Current stable version of GR
 - Where any updates/bug fixes necessary for pipeline will occur along branches
- How to get there from here:
 - JO and eliminate LatIntegration
 - Add calibGenXXX to GR



Other Stuff on the Hopper

- · Installer Debate include *.a or not
- Unit Testing
- Ntuple Documentation
- SLAC AFS usage for application installation
- · New Hire at GSFC

