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LHCb Core Software Meeting

Date and Location

05 Feb 2014 [🔗](#)
10:30 - 12:00
CERN (2-R-030)

Attendees

Ben Couturier, Gloria Corti, Illya Shapoval, Joel Closier, #Liang Sun, Marco Cattaneo, Marco Clemencic (minutes), Markus Frank, Rob Lambert (Vidyo), Stefan Lohn

Subjects

News

- Default CMTCONFIG switched to x86_64-slc6-gcc48-opt
- Discussion with ATLAS to use the CMake configuration framework from Gaudi
- Deadline for Summer Student Projects is 10th of February

Round Table

Marco Cl.

- ROOT 6 status
 - ◆ beta2 tag postponed on my request (several show stoppers to be fixed first)
- CMake migration
 - ◆ verified Bender build
 - ◆ migrated and verified Erasmus and MooreOnline
 - ◆ migrated Panoramix (verification pending)
 - ◆ Urania still to be migrated
 - ◆ Joel: what about DIRAC, LHCbDIRAC etc.
- Gaudi
 - ◆ backward compatibility fix/hack for the Plugin Service (allow use of Reflex component names, hardcoded in some Phys code)
 - ◆ few minor fixes in CMake configuration
 - ◆ there is no support in CMake for ROOT 6 yet (requires action from Benedikt to be able to support builds on the LCG nightlies)
 - ◆ added support for the Vera++ style checker (if available), [LBCORE-375](#)

Marco Ca.: We will discuss at PAC the time scale for a release of the stack somewhere in February and another one end of March.

After some discussion it's clear that we cannot pick up ROOT 6 beta2 because of deployment (LCGCMT) issues, so we need to do it end of March (after sorting out the deployment issues).

Joel

- LHCbDirac and Ganga in line with LHCb applications (slc6-gcc48), and all the ingredients are ready to use Python 2.7.

Gloria

- Went to the SFT meeting where Federico was presenting the plan of work for Geant 4.
 - ◆ reported of a vectorizable CLHEP-compatible random generator which probably will be fed back to CLHEP (and planning for a parallel one)
 - ◆ GeantV will be kept as an independent project and merge later, but it mentioned the introduction of a new geometry package (USolid, from AIDA)
- We will need a discussion on the future of the geometry in LHCb (and Gauss), including the work to be done by Marco Cl.'s technical student.

Illya

- Ariadne
 - ◆ removed the automatically generated relation of Moore
 - ◆ add two more functionalities to the tool: remove all the relations of a node, and remove completely a node
 - ◆ few obsolete scripts were removed, now only one script to use: `ariadne`

Marco Ca.

- Preparing the Computing Tasks document. The plan is to have a document describing everything the Computing Group is doing, that can be reviewed every year.

Ben

- New branching conventions now in production.
- CVMFS
 - ◆ Testing the installation of the nightlies on a daily basis (machine currently
 - ◆ yesterday there was an outage of CVMFS that blocked Online and Tier-0. There must some improvement
- We need to clarify the plan for the software installation.

Stefan

- People got interested in vectorization of the code.
- Can we get a release of Moore with vectorization enabled?
Ben: we need to validate it in the nightlies.

(...discussion on vectorization, performances an plans ...)

Rob

- Last week we run MooreOnline at the PIT (some problem with the PIT).
- Suggestion to produce a (text) file from the timing auditor instead of using the standard output.
- Preparing a mechanism to be able to dump the transient store before an algorithm and resume the processing from that algorithm in a different job
- Will need a new nightly slot: lhcb-trigger-prod.

-- MarcoClemencic - 05 Feb 2014

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