

Minutes of the videoconference "Meeting for R3BRoot Simulation and Analysis"

Thursday, December the 10th 2015, 9:30 to 10:45 CET

Presents: M. Labiche (Daresbury), B. Loher (Darmstadt), H. Alvarez (USC), M. Heil (GSI), P. Cabanelas (USC), O. Kisselev (GSI), D. Kresan (GSI), R. Plag (GSI), A. Perea (Madrid), E. Nacher (Madrid), P. Díaz (Chalmers), D. Rossi (MSU), L. Audouin (IPNO), ...
Apologize: H. Johansson (Chalmers), D. Galaviz (Lisbon)

D. Kresan slides are available in the attachment.

1. Status of UCESB/R3BRoot. Modifications and integration work:

Report from Bastian Loher

- UCESB is integrated and can be installed according to the instructions in the UCESB readme. They also include a "How to run" and examples (address in Dmytro slides). Example macros show how to use the Readers that are available.
- The unpacker for data from the s438b experiment is working and we have tested it with a few runs. Unpackers exist for many of the older experiments and for specific detector tests. These are located in the 'upexps' git repository or the 'unpackexps' cvs repository. Mapping files are not complete, because this was done as part of LAND02. For s438b the mapping is done for Neuland at least. Other detector groups might have a mapping available, but it is not integrated in the unpacker.
- The UCESB unpacker fills the RAW level for all the detectors as far as a mapping is available.
- Mapping can either be written by hand (makes sense for detectors with few channels), taken from cabling documentation (if available), or created via scripts (as is the case for Neuland Tamex).
- Mapping should be tested, developers of different detectors are asked to test unpacking the data and check the correctness of the mapping.

Ucesb and Unpacker installation:

https://github.com/R3BRootGroup/R3BRoot/blob/dev/r3bsource/README_ucesb.md

Add new Reader to R3BRoot

<https://www.r3broot.gsi.de/add-ucesb-reader>

Create mapping for RAW level:

<https://www.r3broot.gsi.de/create-mapping-unpacker>

2. List of responsables for group:

Identified responsables per detector/group (List sent by Dmytro):

- Tofd: Michael, Ralf;
- Neuland: Dima, Vadim Wagner;
- Los: Michael, Ralf;
- Actar: Oleg;
- Si-Tracker: Marc, Roy Lemmon;
- Califa: Héctor, Pablo, Max Winkel;
- Tracking detectors: Stefanos Pascalis and TUD group (need support).

These people should be responsible for identifying the tasks (tickets), coordinate the execution and report on difficulties for each detector or working group.

For the ACTAR case, Oleg Kisselev required the help of developers: Dmytro has already started to test the GARFIELD implementation in Geant4 through the FAIRRoot interface. Also the USC offers involvement on the code.

3. Redmine: assignment of tickets, explanation of how to include issues/tickets.

Explanation of RedMine and coexistence with Forum:

- The Forum is the place for debate on the development: questions regarding use, compilation or implementation; extended discussion on details of implementation, ... Developers are invited to expose their questions and comments in the Forum for public availability and later reference. Forum can be available at: <https://www.r3broot.gsi.de/r3broot-forum>
- RedMine is the place for the management of the tasks to be performed. Bugs and requested features can be introduced by the registered users (developers, users) directly or after some discussion in the forum. The responsible people for the different work groups are the optimal agents for the introduction of the tickets that are priority, in this starting stage. For the moment, there are no rules about introducing tickets (apart from being registered) and we will observe how it evolves. RedMine can be available: <https://www.r3broot.gsi.de/redmine/>

More information and links to reference talks in D. Kresan slides.

4. Github:

The code can be fork/cloned/visited at: <https://github.com/R3BRootGroup/R3BRoot>
There will be no use of the issues and wiki of the GitHub page. Use exclusively the RedMine.

Development should follow the workflow specified in <https://www.r3broot.gsi.de/git-workflow>.
Any doubt on the use could be consulted (or sent) to the forum.

More information and links to reference talks in D. Kresan slides.

5. License issue regarding UCESB/R3BRoot (GPL, LGPL, ...):

There was agreement on the use of GPL for R3BRoot and LGPL for UCESB. Headers are being working accordingly.

6. Other issues:

- Meeting to evaluate evolution during next NuSTAR week at GSI (Feb/March 2016, precise date and time to be fixed).