

LHCb Upgrade AMC40 firmware

FE data format news

Mini DAQ news

Agenda

Next AMC40 firmware meeting



FE data format news

Since last AMC40 firmware meeting in October 9th when it has been showed that FE data format raised the issue of FPGA resources, we have organized data format meeting with each sub-detector which needed it:

- UT (October 17th and November 4th)
- RICH (November 20th)
- SciFi (November 28th)
- VELO (November 20th)

Data format of CALO and MUON was already known and OK.

\rightarrow Review of FE data format this afternoon



MiniDAQ news (1/3)

2 workshops were organized since last AMC40 firmware meeting in order to perform the integration of the code from the different AMC40 firmware developers.

1st integration meeting (1st week of November):

- definition of the simulation architecture
- adding of the hdl files in GIT
- writing of the scripts
- Integration of all the code together to perform a global simulation
- first global simulation



MiniDAQ news (2/3)

2nd integration meeting (1st week of December) :

- Definition of the MiniDAQ firmware architecture
- Adding of the hdl file in GIT
- Writing of the scripts
- Integration of all the code together to perform a Quartus compilation
- First compilation of all the code
- Parallel work to improve the Simulation
- Definition of the parameters and files for users
- Documentation for the simulation

In parallel the Software for controlling the MiniDAQ has been discussed and developed too.



MiniDAQ news (3/3)

We are now able to provide the <u>simulation</u> framework to the whole collaboration which is the first step for the sub-detector users to start to work. All the framework and the simulation will be explained to you this morning:

Federico Alessio 's talk Guillaume Vouters's talk

We are not able to provide the firmware to the MiniDAQ yet . The first compilation have been done last week and there is still a lot to do to check and test the compiled firmware on board.

Some very preliminary results will be given by Frederic Hachon



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Thursday, De	ecembe	er 12, 2013	
09:30 - 12:30	Status report on the firmware and software developments for the MiniDAQ setup $_{\mbox{Location:}}$ 6-2-004		
	09:30	Introduction 10' Speaker: Guillaume Vouters (Centre National de la Recherche Scientifique (FR))	•
	09:40	MiniDAQ Simulation framework environment 40' Speaker: Guillaume Vouters (Centre National de la Recherche Scientifique (FR))	•
	10:20	MiniDAQ Simulation features 40' Speaker: Federico Alessio (CERN)	•
	11:00	MiniDAQ Firmware 20' Speaker: Frederic Hachon (Centre National de la Recherche Scientifique (FR))	•
	11:20	MiniDAQ Software 40' Speaker: Pierre-Yves Duval (Centre National de la Recherche Scientifique (FR)) Material: Slides	



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Next Meeting

Next meeting will take place on February