TDAQ Workshop and Software Status

Murrough Landon – 1 December 2000

http://www.hep.ph.qmw.ac.uk/~landon/talks

Summary of Trigger DAQ Workshop

- TDAQ Integration plans
- ROS and dataflow
- Online Software
- DCS
- Private discussions
- Mailing lists

Integration Plans

- Phase 1: basic level 2, dataflow and DCS bricolage
- Phase 2a: better designed and expanded version of phase 1
- Phase 2b,c: integrate subdetectors, level 1, test beam
- Test beds on various scales required
- Assumes TDR can be put back to summer/autumn 2002

TDAQ Parallel Sessions (1)

Readout System (ROS)

- Several of us attended the ROS parallel session
- Cooperative atmosphere between CERN DAQ group and level 2
- ROD crate DAQ (or DetDAQ) issue is alive again
- Readout from more than one crate still unclear
- Readout system on a PC with Slink cards by Xmas

Level 1 integration with Dataflow

- Our plans for tests of RODs with ROIB and ROS were presented
- Should we add test of our ROD with ROS?

Online Software

- Online software fully open source by Xmas
- Our software plans were presented
- Desirable extra Online s/w features accepted
- We still have a lot of work to do...

TDAQ Parallel Sessions (2)

DCS

- New ELMB presented
- Prototype software connection between DCS and Online was demonstrated
- Other required features will be added

Mailing Lists

- Many new mailing lists set up for integration activities
- Subscription via https://wwwlistbox.cern.ch

Private Discussions

Dave Francis

Bruce and I briefly discussed proposals for ROD crate DAQ. Dave is very aware of our requirements. A rough workplan exists, but the timescale is undefined. We have joined the new ROS mailing lists and will try to keep the topic alive (in spite of other integration pressures).

Beniamino Di Girolamo

Beniamino was involved in developing software for the TileCal test beam. He explained some aspects of how they had to use the Online and Dataflow software. Various gotchas have or hopefully will soon be fixed. He has given us access to the code they developed as a model for us to use.

He explained a little about their calibration setup in the test beam and was enthusiastic that we pursue joint tests with them at the earliest opportunity.

L1 Calo Software Status

Workplan and people

A rough outline of tasks required for the slice tests was discussed at our recent Uk software meeting. Some names have been pencilled in...

- Test vectors: Bill
- Readout and related stuff: Bruce
- Run control: Murrough
- Database: Murrough
- Histo displays: Norman/Steve
- Monitoring (readout out): Bruce
- Monitoring (user end): Steve (and Bill?)
- Event Dump: Steve
- Calibration: ?

Hardware

Concurrent CPU

- New Concurrent Technologies CPU at QMW is working
- VME driver integrated into HDMC. Bus errors OK.
- Buy two more (VP PSE/P34) for RAL and Bham...

ROS on a PC

- Need to buy at least two Slink-PCI cards for this
- Whatever ROS solution, we will want more Slink source and destination pairs (eg six)
- Barry Green at RHUL has experience of PCs with many PCI slots which would be required for the full slice test setup