Software Status

Murrough Landon – 19 April 2001

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

Overview

- TDAQ week highlights
- Software status
- Documentation
- Hardware

TDAQ Week Highlights

Online Software

- Continued rollout of new releases
- Easier for subdetectors to add customisations
- Event dump improving (usable by June?)
- TileCal have a monitoring offering – may not be general enough to be useful though

Dataflow/ROS

- ROS on a PC available (one Slink only) – it was used for MIROD and CPROD tests
- Extension to several Slinks expected...
- ROD crate DAQ now a DIG responsibility

DIG

- DIG now part of Technical Coordination and to be run by Livio Mapelli

Level 1 Software

- Aim for coordinate/discussion across level 1
- Some attention to software process and quality, documents, reviews, etc
- Video conference end May/early June?

Software Status (1)

Test Vectors

- Bill has been ill, so not much progress, alas

Run Control

- Some work done on databases (trigger menu, calibration)
- Need to sort out overlaps with work on readout
- Need to decide on hardware access library

Readout

- Focus has been on ROD tests
- Medium/long term strategy to be decided: focus on PC ROS vs work on our own ROD crate DAQ
- Above (run control) comments also apply

Software Status (2)

Monitoring/Simulation

- Steve is preparing an overall framework...

Histogramming

- Some ATLAS/Online/LVL2 proposals now available as a document.
- We should monitor progress with this...
- ...meanwhile we still have the ROOT based package modified by Tara from CDF code

HDMC

- Oliver will start in June
- We have discussed use of HDMC as a hardware access library for DAQ type code
- Set of changes to make this easier have been proposed
  `http://www.hep.ph.qmw.ac.uk/l1calo/doc/pdf/HdmcChanges.pdf`

Documentation

Software website

- Software website revamped
`http://www.hep.ph.qmw.ac.uk/l1calo/sweb`
- Kept in CVS to allow easier updates by widely scattered software developers

Documents

- Several draft documents now exist on various aspects of slice test related software development
`www.hep.ph.qmw.ac.uk/l1calo/sweb/documents/doclist.html`
- Recent additions: calibration; databases; HDMC changes
- Feedback welcome

Hardware

Crate CPUs

- Three more Concurrent Technologies CPUs have now been ordered
- However a newer version (compared to the QMW one) is available with better bus error handling (but no SCSI)
- Order is being held until we decide which we want

ATLAS Readout System on a PC

- Status of our Slink order?
- When we have the hardware, get PC ROS code from CERN and try it on one of our PCs...