# **Software Status**

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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...