Online Software Workshop

Murrough Landon – 7 April 2005

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

Overview

- Summary of the Workshop
- Next steps

Workshop Overview (1)

Aims

- Mainly a workshop looking forward to what we have to do
- Some elements of review/reminder of current implementations
- Two days of presentations and discussions: not enough!
- Participants: Bruce, Dave, Eric, Florian, Gilles, Murrough, Norman, Stefan, Steve (plus Dimitri and RichardB part time by phone)

Workshop Overview (2)

Agenda

- `http://agenda.cern.ch/fullAgenda.php?ida=a051409`
- Summaries of status, requirements and plans for each module
- Discussion on software for production, installation and commissioning
- Related discussion on calibration procedures and standalone programs
- Presentation on databases – not much time for discussion
- No time for discussion of monitoring (deferred to this meeting)

Summary of Discussions (1)

Module Services

- Basic framework is OK – we will use it at ATLAS startup
- (though update of low level HDMC file structure would be desirable)
- Extension needed to existing API to support calibration steps
- Change of style for accessing register bitfields was recommended
- Presentations from each (major) module fed into calibration discussion

Summary of Discussions (2)

Calibration Procedures

- Agreement to keep the multistep run model for internal calibration and test procedures (ie timing setup etc)
- Move away from standalone programs to use of readout facilities in ROD Crate DAQ (RCD)
- Use monitoring system to distribute data from RCD to analysis programs
- Need to define the details of these procedures and the details of “run type plans” in the database
- Use the database software to provide the data to be loaded into modules at each step in the procedure

- However situation with joint calibration with calorimeters is less clear and needs further discussion and agreement

Summary of Discussions (3)

Databases

- See separate talk – main point is we need to start using new ATLAS database tools

ROD Crate DAQ

- We still havent moved to use ROD Crate DAQ
- Recent TDAQ release includes new facilities we requested so we should make this migration soon (needs new TDAQ release and move to SLC3 operating system)
- RCD is required by the proposed calibration procedures

Next Steps

- Try to get consensus on calibration with calorimeters
- Start implementing our preferred scheme for internal calibrations – eg for CMM timing
- Start using new database software
- Move to ROD crate DAQ and start using readout facilities