NIKHEF workshop

Murrough Landon – 28 November 2001

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

Overview

- Online Software
- Level1 Dataflow
- DIG and Connect Forums

Online Software

Management change...

- Bob Jones is leaving. New leader is Mihai Caprini.

Next release

- Release 0.0.16 expected around the new year.
- They have started migrating to use of CMT.
- Some useful changes in database libraries: full support for user defined classes.
- Various improvements to OBK, DDC, Event Dump, ...
- First version of distributed histogramming. Some essential requirements are still missing.
- Discussions on future developments for partitioning, run control, resource maanagement

Level1 Dataflow (1)

Non-DIG

- DIG wishlist discussed: see next slide
- VMEbus library API proposed. We should comment: `http://atlas.web.cern.ch/Atlas/GROUPS/FRONTEND/documents/API.html`
- Work has started on common trigger menu definition and CTP simulation (Thomas Schoerner-Sadenius).
- Work has started on (quite hardware oriented) MuCTPI simulation (Thorsten Wengler).

Level1 Dataflow (2)

DIG Wishlist

- Early recommendations on crates, CPUs, OS, libraries.
- Support for “ROD crate DAQ”, eg general support in the ROD crate (VMEbus, TTC related software, etc). Also for the eventual event readout via VME from RODs.
- L1Calo requirements for slice test: Livio proposed the PC ROS, starting small, building up to industrial multislot PC (CERN are about to buy one).
- ROS software distribution: still being worked on, we could be beta testers. Meanwhile Livio suggests we take a PC with Slink card to CERN to get it set up...
- Support style: we think Online software is a good example.
- Contacts identified (Louis Tremblet for dataflow, Mihai Caprini for Online, Marc Dobson databases).

DIG and Connect Forums

DIG: key points

- DIGs main focus will be ROD crate DAQ and test beam support.
- CTP scheme for trigger type word and calibration scheme documented. Comments welcome.
- Proposal to extend event ID to 32 bits in the RODs.
- Event format (DAQ note 50) updated. Level2 additions, byte ordering defined, RoI links summarised.

Connect Forum

- Most aspects of the software process are now defined.
- Still working on guidelines for software design process.
- Plenty of stuff on their website
  `http://atlas-connect-forum.web.cern.ch/Atlas-connect-forum`