Software Status

Murrough Landon – 17 December 2002

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

Overview

- Overall status
- Package Details
- Schedule and next steps

Status summary

Recent progress

- Production 3 day working session with Cano
- JEM module services in good shape and related JEM software is developing rapidly
- Apart from that, many of us have spent lots of time in meetings...

Whats missing

- Feedback from our first release
- User guide for our first release?
- Working modules to integrate!

Packages (1)

HDMC: done recently

- New parts for the JEM

HDMC: to be done

- Integrate in CMT environment
- Move to pure STL (no Qt dependence for hardware parts)?

Module Services: done recently

- jemServices package

Module Services: to be done

- CMM module services to be completed
- CPM module services to be completed
- Documentation is still required

Packages (2)

Databases: done recently

- Additions for the JEM (trigger menu in existing framework)

Databases: to be done

- Conflicts with test vector generators to be resolved
- More work required for calibration datasets
- Use trigger menu configuration from CTP group
- Support for PP system
- Evolve with external changes (eg Conditions database)
- Draft user guide to be completed

Packages (3)

Run Control and IGUI: done recently

- Nothing

Run Control and IGUI: to be done

- Sequencer program for multistep tests (or calibrations)
- Update/provide documentation
- Hardware monitoring status (simple display may already be supported by Dataflow panel?)

Packages (4)

Simulation: done recently

- CPROD variants added

Simulation: to be done

- CMM, JEM, PPM simulation to be completed

Test Vector Generation: done recently

- Work on integrating JEM test vectors started

Test Vectors: to be done

- Test vectors for CMM and PPM
- CP subsystem, other subsystems, slice test system (we need to specify in detail what we want to do)

Packages (5)

Calibration: to be done

- Calibration and setup procedures required (some database infrastructure exists)

Hardware monitoring: to be done

- Read hardware status (eg links) and report to IGUI (some IGUI infrastructure exists for this)

Readout (via ROS): to be done

- Install latest ROS software, read events via Online Monitoring framework

Event dump and display: to be done

- Customise event dump (now possible!)
- Develop graphical event display?

DCS: to be done

- Hmmmm

Priorities (1)

CP or JEP?

- We always thought we would start with the CP subsystem
- But the JEM may be the first module ready and eager for testing in a larger scale setup
- ROD firmware exists (tested?) for JEM data and RoIs
- DSS LVDS and GIO cards exist (with tested software?) for sending input data and generating L1A sequences
- Not sure about CMM emulator (ie read JEM data to CMM)
- Special treatment may be needed for the JEM to set its TTCrx parameters (no I2C bus on board)

Priorities (2)

Other

- Feedback from software group required....tomorrow....