



Online SW Activities

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(updated with corrections from the meeting)

- Test Rig
- Upgrade
- Other LS1 Work



Test Rig(s)

- CERN test rig

- Reminder from last month:

- New boot server soon using AFS home directories (no separate home)
- Common setup (/l1c area) already copied to l1calo AFS

- L1Calo login scripts updated recently

- scripts/login/.l1calo_bashrc: sets up TDAQ and L1Calo SW
- scripts/login/.l1plus_bashrc: additional setup for CERN l1plus & test rig

- External test rigs

- Birmingham test rig (almost) back in action!
- Discussion at the Bham meeting on reviving test rigs?
- Decisions needed on OS and TDAQ versions
 - TDAQ built for SLC5 will happily run on SLC6 (so Im told)
 - So revived test rigs could already move to SLC6 (which still has 32 bit builds)
 - New TDAQ version coming soon(ish) - but waiting for updated LCG
 - However not sure how stable or well tested new TDAQ releases will be
 - But for ATCA developments with IPbus we need TDAQ version with newer LCG!



Upgrade Developments (1)

- New MCM

- Currently working on using ppmSim with standalone tools
- Short term plans:
 - Real time path is identical, so only a few features to be added
- Longer term plans:
 - Add new versions of BCID algorithms
 - Separate LUTs for CP and JEP data
- Module control
 - "One slide would not be sufficient to describe all the planned changes"



Upgrade Developments (2)

- CMX

- Seth has returned as online SW consultant for CMX
 - But still need effort for the CMX online simulation

- L1Topo

- Review requests list of SW tasks with names...
- Wade is preparing a simulation oriented talk...

- Working sessions?

- Should we arrange some SW development weeks at CERN during the course of the coming year?



Upgrade Developments (3)

•IPbus

- Support: Rob Frazier left Bristol but will be replaced...
- IPbus v2.0 "nearly" ready
 - Includes new GUI tool
 - This uses a widget package "wx" which is available on lxplus for python 2.4
 - But TDAQ uses python 2.6 - more fun with versions!
- Scripts to rebuild IPbus for ATLAS LCG/TDAQ developed
 - Create "installed" area expected by TDAQ/CMT
 - Worked last week, but not this week
 - Problem with using LCG/TDAQ nightly builds??
 - Anyway, it will probably all change with IPbus 2.0...
- Example L1Calo "module control" package under development
 - Test bed for integrating with existing TDAQ/L1Calo software
- More news by the Bham meeting - hopefully



Non-Upgrade Workplan for LS1

- Need to make a list of non-upgrade related SW work
 - Updates to database (energy scan results)
 - Probably a few other desirable changes to the existing structure
 - (In addition to work for new/upgraded modules)
 - Better support for rare running modes?
 - ALFA runs: adjust readout pointer
 - Beam splashes: adjust trigger masking
 - Select predefined noise cut regimes for pp or heavy ions
 - Other?
 - Many other things I've forgotten
 - But which you can now remind me about...