Online Software Status

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- Cable Tests
- Run Plans
- Monitoring
- Databases
- ROD Crate DAQ (still!)
- Test Rig (please!)

Cable Tests & Run Plans

- ## Cable Tests
  - Currently driving the run control by scripts
    - Works and quick to fiddle with, but not long term ideal
  - Various improvements in PPM FW&SW by Kambiz
    - Still problem with high rate of LAr triggers...

- ## Run Plans
  - Idea from discussions with calorimeters
  - Database description of series of runs (could be standalone or jointly with calorimeters)
  - Florian has recently developed a new "run plan" library in C++ to replace scripts and give better link to DB
    - He has done this very quickly – but he does have a test rig at Heidelberg (those of us at CERN consider this cheating!)

Monitoring

- ## PPM Monitoring
  - Nice work by Victor to add monitoring for cable tests
    - Again, tested at Heidelberg first
- ## GNAM
  - Paolo is working on more general monitoring across the whole system (not just PPM or other module specific)

Databases

- ## DB Workshop
  - Useful 1.5 days of discussions resulting in workplan
  - Various DB areas to be moved into "COOL" conditions database

- ## Next steps
  - Calibration data: PPM and CPM+JEM+CMM separately
    - Aim for implementation in July
    - SW constraints mean CPM+JEM+CMM need to move together
    - Will not happen without testing => need test rig at CERN!
  - Trigger menu: use new ATLAS trigger DB by autumn
    - NB CTP integration pencilled in for September?
  - Work on connectivity
    - Links to TC databases (or not), new TDAQ development
  - Link new Run Plans (and run type description) to DB

ROD Crate DAQ

- **Still an ongoing saga...**
  - Basically ready, but only partly tested
    - Some problems found in one day test at RAL in April
    - One problem demonstrated by remotely on HD test rig
  - Finishing the business needs full slice test rig at CERN!
  - Better support for our non-event calibrations added for us in next TDAQ release
  - NB we need to adapt to new state transition model

Test Rigs

- ## For software development
  - Really need a full slice: one of each module ASAP!
    - Testing new DB code, ROD Crate DAQ, next TDAQ release
      - NB we will need to use next TDAQ release for joint runs with calorimeters
    - Testing ROD inputs for FW development
  - For SW development, prototype modules & crates OK
    - Though there are issues with compatibility?

- ## For integration
  - Need final custom crate and preproduction modules
    - Not so urgent, but dont let things slip even more (see next slide)

- ## Practicalities
  - Dont expect both soon, so all in USA15 for now (alas)

- ## Scenario 1
  - Ask Stockholm to press ahead now with water cooled custom crate to be delivered to CERN before end of June
    - Dont wait for Bham test, fix any problems found there later
  - Risk: possibly a little money
- ## Scenario 2
  - Wait a bit, then hit Swedish holidays (all July)
  - No response from ERNI in August (German holidays)
  - Build crate in September, have it at CERN in October
  - Risk: a huge delay
    - No CTP integration even on re-re-revised September timescale
    - Immediately throw out re-re-revised milestones shown last week
- ## My personal conclusion
  - Phone Sam today!