

Status BCM1F – CMS (1) - Weekly Meeting 21-Nov-2011

- CMS (1)
 - Frontends until discriminator without problems
 - DAQ hardware: discriminator, LUT (including veto function), scalers, TDC, ADC
- Observations:
 - Without TDC operation no problems with the scalers
 - WITH TDC operation different failures depending on history
 - 'number of bytes' error (block transfer mode)
 - Scaler rates affected
 - Software 'hangs' for up to 15 s
- Possibility to use a second VME crate below ours
 - Needs a second controller → VME controllers daisy-chained
 - Daisy chaining not successful: Hardware? Software? Understanding?
 - Goal: second independent hardware setup for investigations by use of CTRL3 & related software
 - → tests of setup, daisy-chaining and software adaptations in Zeuthen
 - Transfer to CERN

Status BCM1F – CMS (2) - Weekly Meeting 21-Nov-2011

- CMS (2)
 - Open Questions:
 - Status of optical bridge – does it need a firmware update? How?
 - Interferences of VME bus etc into discriminator inputs?
 - Operation needs different experts: TDC/scalers, ADC, data analysis...
 - Overall Software Stability:
 - Meeting with online software group in Zeuthen
 - No conclusion yet...
- Conclusions so far
 - No stable system, we started with bright success but cannot keep our promises...
 - High pressure from CMS / LHC control
 - Rates, instant luminosity measurement
 - First priority should be solving all open problems, only then discussion of new requirements and features

Status BCM1F – LHC (1) - Weekly Meeting 21-Nov-2011

- BCM for LHC (1)
 - First module working
 - Geometrical tuning (1.3 m towards LHCb)
 - Ground and shield isolated, improvement in S/N
 - Still no test pulses possible
 - Second module installed – no signal yet
 - Includes test pulses now
 - Test in lab in Preveessin without problems
 - Web access to module control working
 - Problems with fibre routing
 - No actual statement from fibre optics group (checked today)
 - Software:
 - Discriminator, TDC, scaler, ADC – they all can be run
 - Data not published, neither to CMS nor to LHC control, only written to disk
 - Operation needs different experts: TDC/scalers, ADC, data analysis