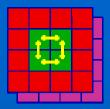


L1Calo ROD Status

The little boy laughed to see such fun ..



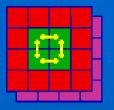
B.M. Barnett - RAL PPD ~ RAL UK ATLAS Level-1 Calorimeter Trigger Meeting 1



Overview



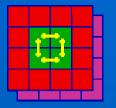
Firmware(2)
Hardware
Tests with real modules
Process
Connectors



Firmware (1/2)



JEM Data : Problem Report 19		
 JEM-Slice-1: Multi-slice operation fails 	pending	
Cp-Cmm Data : Problem Report 20		
CpCmm-Slice-1: Various Bit field errors.		
Data as assembled into S-Link		
record corrupt.	pending	
JEM Rol : Problem Report 21		
Jem-Rol-1: Zero suppression fails.		
PE (bit 11) set in S-Link record on zero data.	pending	
CP Data : Stable	good	
CP RoI : Under re-evaluation	testing	



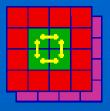
Firmware (2/2)



Except:

- Cp-Cmm Data
 - Firmware tacitly updated to v. 3
 - Performance different but not better, showing other faults. Suggested Engineer revert to v.2 where extensive testing had taken place then debug...
- Controller (common to all designs)
 - Tacitly updated to v. 14
 - No change in behaviour? ... just complicates analysis of module behaviour.

17 April 2003



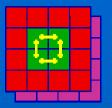
Hardware



Now have 2 setups again:
 Common TTCvi/vx
 Still suffering from flaky TTCDec on ROD

 New TTCDec Card anticipated for ROD
 Difficulty maintaining

 f/w, s/w h/w intercoupling

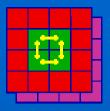


Tests with real modules

Firmware:

- Need to deal with specification ambiguities which don't affect Dss/Rod only tests:
 - Cp-Data bit 23 problem
 - Jem /Cmm: Crate / module ids should be taken from ROD registers, not data stream
 - And anyway, the spec assumed by the ROD should be the same as the spec implemented in the JEM, CMM, CPM, etc...

17 April 2003

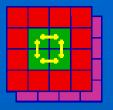


Process



Specification:

- Development Cycle
 - Should include iteration between implementation and specification, when implementation has made assumptions not detailed in spec.
 - Feedback from testing when spec is violated.
- Bug Tracking and development:
 - Release of new f/w should trigger:
 - Verification testing
 - Notification by e-mail to individuals involved of availability and details of new feature set!



Connectors



We are using new connectors:

- For TTCDec
 - Lemo 00-like 2 pin
- For G-Link
 - Lemo 00
- Questions:
 - Are these connectors adequate -
 - This question prompted by some recent discussion during oscilloscope evaluations.
 - Should their intended use not have sparked a certification effort?