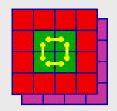


ATLAS Level-1 Calorimeter Trigger



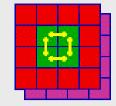
Module Services, ROS, RolBuilder and SysMan

"...these hoary woods are grand; But we are exiles from our fathers' land..."

Bruce M. Barnett



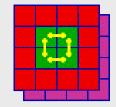
Overview



- Overview
- HDMC Support
- Module Progress (6)
- RolBuilder
- ROS (3)
- SysMan



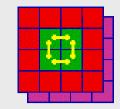
HDMC Support



- Bugs in:
 - PartManager::remove_part(recursive)
 - Fix engineered:
 - wrote remove_subtree(), but must integrate in remove_part(recursive).
 - Part::set_dependencies()
 - invoking method with original attribute vector caused deletion of elements of that vector!
 - Gilles should be freed from the persecution of segvs now!



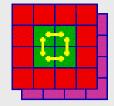
Module Progress: CP/JEP Rod and Dss



- CpRod
 - Mature in daqInterface. Db integration.
 - requires status/monitoring interface.
- Dss
 - Mature in daqInterface. Db integration.
 - requires status/monitoring interface.
 - Requires
 - completion of LVDS support.
 - addition of gio support.
 - Implementation of CTP-emulator.



Module Progress: cmm



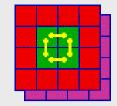
- Updates to register map need to be incorporated.
- Integration with db to be completed.
- Sub module structure required?
- Module service framework there
 - yet to be completely fleshed out.

(courtesy Norman)

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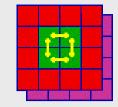
Module Progress: cpm (1)



- Cpm
 - only daqInterface methods implemented, for the most part.
- CpChip:
 - typical DaqInterface methods such as load(),reset(), initmodule(),etc...
 - other methods: emptyScanPath(),setThreshold(),getClock(),getDelay()
- SrlChip:
 - DaqInterface+ loadDPR() (from a file or with constant, ramp,etc...)



Module Progress: cpm (2)



- Further work on db-integration

• (6th November ... with M.L.)

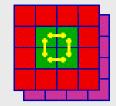
Accessory implementations

- eg: CpmFpgaFlashRam
 - mostly completed
 - (courtesy Gilles)

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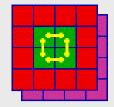
Module Progress: Ttcvi



- Basic implementation with simple register module
 - (bruce)
- Fifo fill for sending data on the B channel
 - (get_FifoValue, fillFifo).
 - (gilles)
 - how to deal with complexities of Ttcvi in a general way.
 - Db issues:
 - Especially in light of needs of older ttcrx chips:
 - (ie: no I2C interface.)



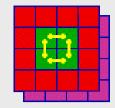
Module Progress: Tcm



- Basic implementation with simple register module
- DualPort testing.
 - Implementation of some cannery?



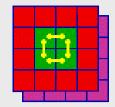
RoiBuilder



- New prototypes advancing well.
- Wish a window in which to test with "Real" RODs
 - Is there a window in 2003?
 - Can we afford not to make one?

CLRC

ROS: s/w

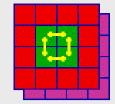


New OO ROS

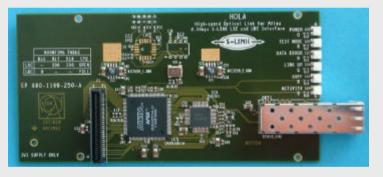
- is RH7.x compliant (2.4 kernel)
- has superceded old ROS s/w, but is not yet compete:
 - DataCollection interface (Q4 2002)
 - S-Link interface (Q1 2003)
- RH7.x (2.4 kernel) port of old s/w was never done.
 - Hence there will be NO distribution!
 - If we want 7.x s/w with S-Link and monitoring sooner:
 - we must justify with:
 - » specific time requirements
 - » consistency of need relative to RodCrateDaq developments: (Q4 2002 ...)

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ROS: h/w (1)



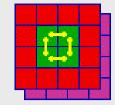
- Advances in link technology:
 - HOLA:
 - "High speed Optical Link for Atlas:
 - "HOLA can transfer with one duplex fibre at the full S-LINK bandwidth of 160 MB/s.
 Furthermore the HOLA will be cheaper than the ODIN"



- PCI-X:
 - "PCI-X, at 133 MHz and 64-bits, will enable data throughput of over 1 Gbyte/sec."
- More news at ROD Workshop (Annecy)

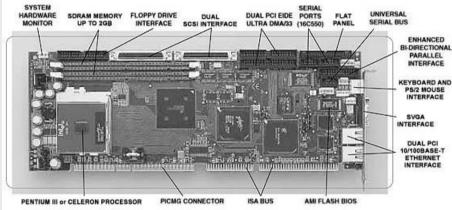


ROS: h/w (2)



Trenton PICMG platforms: - 10 PCI slots, in various flavours.

- Satisfactory experience. (Priv. Comm. M. Joos)



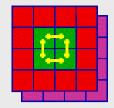




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CLRC

SysMan



- RAL Systems:
 - now all running RH7.2 (2.4 kernel) (gcc 2.96)
 - Concurrent PIII machines are all diskless.
 - (some tidying of implementation needed...)
- CERN will certify RH7.3.1 (2002)
 - DAQ-1 s/w v18 will be ported to this,
 - but only available for 2.95.2 (not 2.96) compiler issues.
 - gcc 3.2 will be available.
 - But porting will be some work due to strictness of complier.
 - We need to decide optimal timing to move to RH7.3 and v18 (from current v17.) (need 2.95.2 compiler...)