



6th February 2003

9U ROD (Again)



NOUN: rod

ETYMOLOGY: Middle English, from Old English *rodd*; akin to Old Norse *rudda* club ...

- 3 (a) A stick or bundle of sticks or switches used to give punishment by whipping.
- 3 (b) Punishment; correction.
4. A scepter, staff, or wand symbolizing power or authority.

C .N .P .Gee

Rutherford Appleton Laboratory



Post²-PDR Issues



- **Document now at Version Draft 0.7c. 82 pages.**
- **Many issues fixed:**
 - Lots of comments from reviewers (thanks to Eric for help).
- **Detailed register model, including VME64x configuration space.**
 - Thanks to Panagiotis for advice.
 - A little tidying up still needed, inside each FPGA.
 - *Probably more changes as firmware is developed.*
- **Outstanding decision on pins for Geoadd**
 - No benefit in making it same as PPR?
 - CANBUS, TTC not documented – should use same as ALC



Remaining Details



- **Event Formats (yes, still)**
 - Must match CPM, JEM, CMM G-Link formats.
 - *Asking DPCS to help with this.*
- **Details of data rates**
- **Details of bits in registers**

- **How many to make in the first batch for slice/test beam.**
 - Initially 1, then 2 more?

- **Division of firmware responsibility**
 - And where the firmware is stored (not only a ROD issue).



Future use of 6U ROD/ Data Formats



- **Timetable for 9U ROD means 6U ROD continues in use for tests**
 - and probably in test beam, accompanied by 1 9U ROD
- **Data formats are different and incompatible.**
 - Block header handles different no of slices from different parts of a module. Sub-status zero suppressed if no error.
- **Once formats are agreed, should we update 6U rod formats?**
 - Answer: Discuss: probably: hard to survive with old and new formats co-existing in analysis (on-line and off-line).
 - *But we are in trouble if we can't survive like this in future.*
 - *The old format did not foresee a per-module event format version. This is included in the new block header.*