Software Organisation

Do we need a software process?

- T/DAQ reorganisation will create an Online Software group, with overall responsibility for all online software including coordination of subdetector software
- The Backend DAQ will become an Open Source project with a model for collaborative software development
- One person responsible for each identified component
- Typical components might be the run controller for a subdetector or perhaps the database schema for the subdetectors data, etc
- Software process: requirements and high level design, detailed design, coding, test strategy, user guide. Produce deliverables, then iterate and refine
- Coding conventions? Not much in DAQ -1: some inconsistencies even within packages. But old ATLAS software process defined conventions. Some uniformity seems desirable

Hardware Platforms

Do we need new CPUs?

- Network access to old VME processes is probably adequate
- We have enough at RAL for a three crate system; also some dying VICs
- Birmingham has Bit3 connection for a two crate system – but these need special recovery from bus errors
- Do Heidelberg, Mainz or Stockholm need to run more than one crate in the near future for prototype tests?
- Final architecture for ATLAS will probably(?) have a (diskless?) CPU per crate doing the real work, with CPUs connected by a high speed network switch
- Should we test this scheme in our prototype system?

Available single board VME PCs

- VMIC (used by DAQ group).
  - 166MHz Pentium: $2160
  - 333MHz Pentium II: $2737
  - 700MHz Pentium III: $4443
- Concurrent Technologies
  - 333MHz Pentium II: $1873
  - 600MHz Pentium III: $1988
- All with 64Mb, IDE, excluding VAT. Concurrent boards can alternatively host SCSI

Software Training and Meetings

DAQ -1 Training Session

- Wednesday 12 – Thursday 13 April
- Lectures in the morning, hands on session in the afternoon
- You must register for the hands on session
  `www.cern.ch/Training/ENSTEC/P2000/Special/ATLASDAQ-1_e.htm`
- A good opportunity to learn about the DAQ software, interact with members of the DAQ group, and keep up the pressure for our requirements

OO Offline Software Meeting

- Monday 10 – Tuesday 11 April
- Planning for migration of trigger simulation to OO
- Presentations on Monday, technical discussions on Tuesday
- We should send (at least) one representative