Prototype DAQ Software (1)

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Routes to Prototype DAQ System

- **OldDAQ**: Evolve from existing DAQ software, adding DAQ -1 components
- **ProZAQ**: Start afresh with DAQ -1 based system plus homegrown components
- **DetDAQ**: Wait for full DAQ -1 development for ROD crates
- Look at required tasks - some will be common
- Prioritise the common tasks to avoid wasting our limited effort

Common DAQ Tasks

- Define configuration database:
  (partitions, available modules, VME addresses, software; calibration and setup parameters, modules present, modules to read, etc)
- Develop database editor
- Select VME access method
- Develop Module and related classes
- Initialise modules and crate interconnections
  (load and configure RC commands)
- Start/stop modules
  (run, stop RC commands)
- Definition of Event format/class?
  (inclusion of data read from non-ROD modules?)
- Understanding how to use and test the ROD

Prototype DAQ Software (2)

ProZAQ Tasks

- BufferManager as jacket class around PBM?
- Simple Event class
- Mechanism to trigger readout of Events
- Simple Producer class
  `ModuleList->Init(),Load(),ReadEvent()`
- Simple monitor/analysis class

DetDAQ Tasks

- Help define the architecture to meet our requirements
- To meet a summer timescale, help to implement it?
  Serious work may start after April DAQ -1 workshop?
- Still need our own run controller, Module classes, database, monitor
- Still need to sort out Event format

OldDAQ Tasks

- Iterative reengineering... (cf Normans talk on 31 Jan)