

# DAQ Strategy

## Garden of Forking Paths

Last year Norman showed a diagram suggesting two separate but converging paths for progress towards a new DAQ system. One involved evolving the old DAQ with gradual addition of DAQ -1 components. The other branch started with DAQ -1 with incorporation of relevant ingredients from the old DAQ.

Some work has been done on both paths.

We recently decided that we don't have enough effort in the UK to pursue both simultaneously. Also as the engineers would like to have a working DAQ available at all times, it was decided to continue only with the old DAQ evolution route for the moment.

Meanwhile, the DAQ group have finally accepted the strong pressures on them and will start to produce a DAQ -1 suitable for the test beam (this summer) and generally for ROD crates (probably later).

## DAQ -1 Tutorial

- The DAQ group are holding a tutorial on the BackEnd DAQ software on Wed-Thur 13-14 April. This will involve lectures and hands on exercises.
- It is seen as starting point for subdetector development towards Testbeam and ROD crate DAQ.
- Learning about this stuff is useful now (or soon) and also good level 1 representation will keep the pressure up for a DAQ system we could use.
- NB there will also be a discussion meeting at CERN on Mon-Tues 11-12 April to discuss moving offline trigger software to OO.

## Technical Proposal

- The DAQ, DCS and higher level trigger technical proposal is now in its second draft and due for submission by the end of March.
- The Detector Interface Group chapter concerns us (eg our requirements for ROD crate DAQ etc). Should be looked at before the deadline...
- [atlasinfo.cern.ch/Atlas/GROUPS/DAQTRIG/SG/TP/draft\\_tp.html](http://atlasinfo.cern.ch/Atlas/GROUPS/DAQTRIG/SG/TP/draft_tp.html)