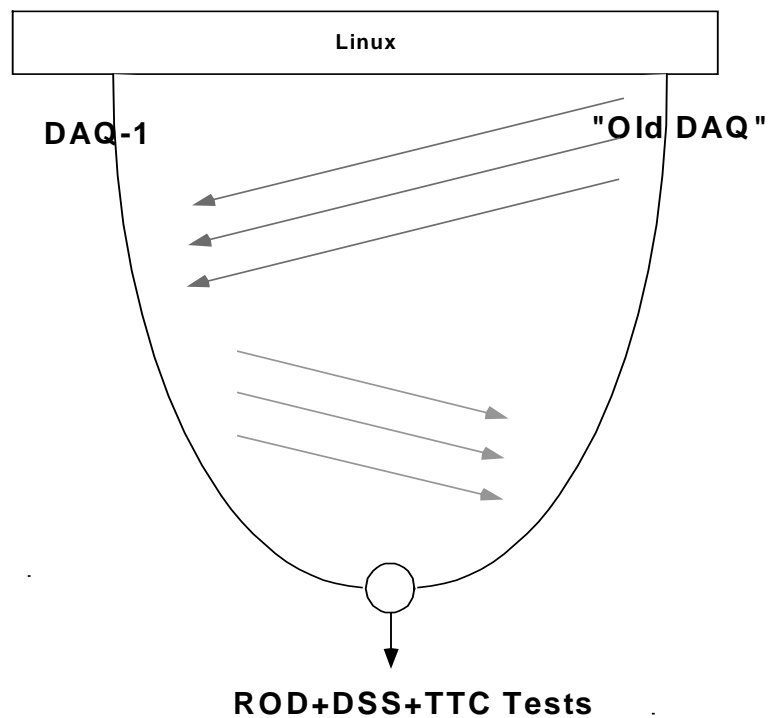


Data Acquisition Software - Status January 2000

Reminder of Aims

- Unified DAQ developed from our current daq and Daq-1;



- **Must provide a usable DAQ system at appropriate times for trigger hardware tests**
- **Intended to be a prototype for the final DAQ, so experience in running the prototype software is essential.**
- **Running on PC under Linux (to overcome limitations of the elderly 68K system);**
- **Connects to VME via Ethernet and a small interface program in the 68K – but portable to other interface when we eventually choose one;**

DAQ Software Status January 2000

Work Completed:

- The current working DAQ is version v421 at Birmingham. This contains the DSS support.
- We have collected v421 and inserted it into cvs.
- A new version v425 has been created at RAL (leaving v422 – v424 if needed for 68K development).
- The following changes have been made, leading to a “reduced DAQ” (still temporarily called v425):
 1. The code has been adapted to compile and link with the c++ compiler.
 2. Support for obsolete hardware modules has been removed (FADC, TXM, CPM, FEM, JEM, CTPD). This leaves just DSS and (existing) TCM (+VIC) supported.
 3. The ROOT histogramming system has been installed on the PC, and some test programs have been demonstrated.

Next Steps

To get back to a working system, we need to make separate changes to daqctl, daqprod and daqana:

Daqctl:

1. Remove the code to start and stop runs and programs – daqctl will then become just a menu-based editor for daq parameters. Run control will be via the daq-1 user interface.
2. Eventually replace with proper database system.

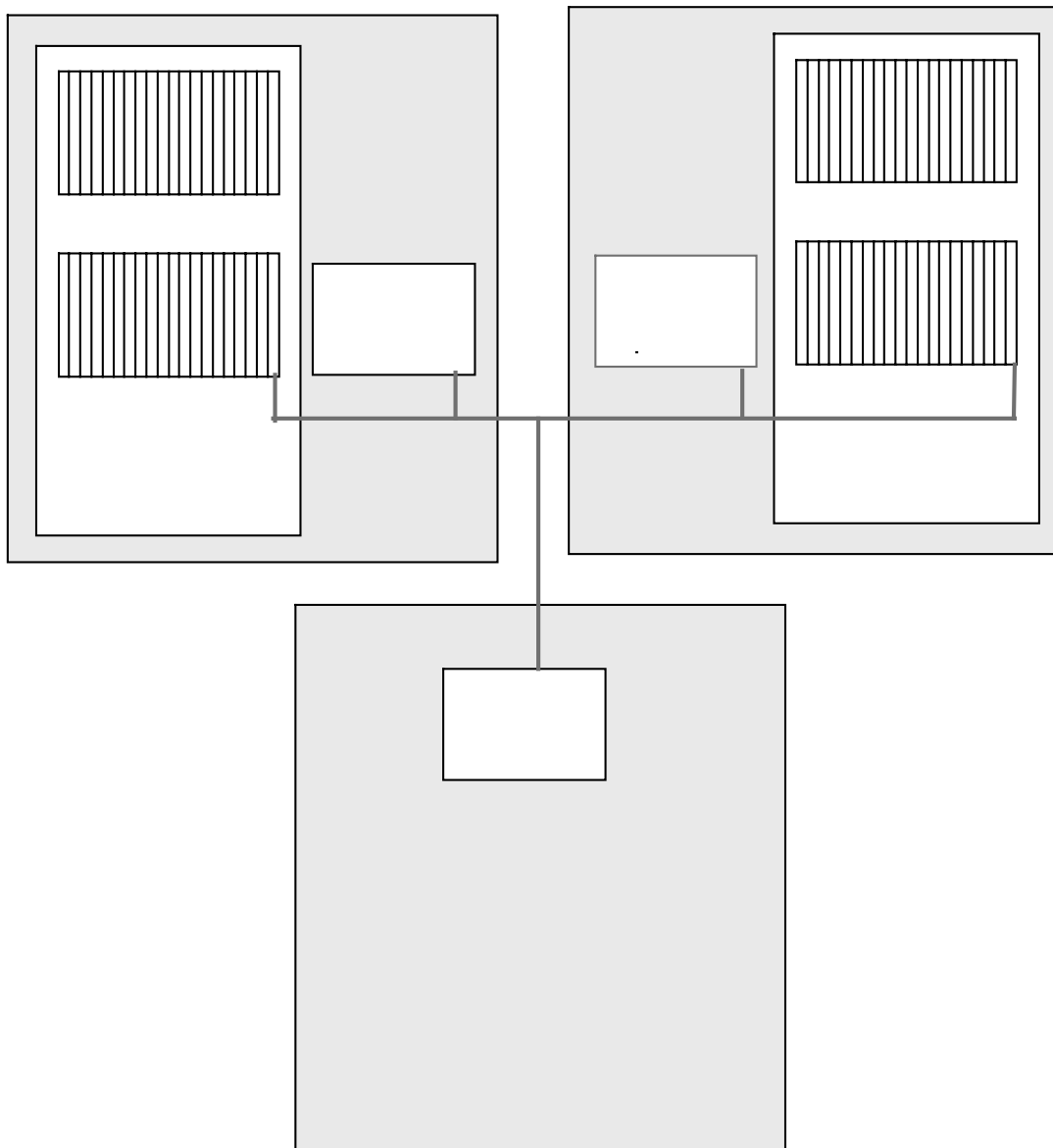
Daqprod:

1. Incorporate VME access via Ethernet. Add TTC support.
2. Eventually rewrite to include Objects (DSS, Event)

DAQ Software Status January 2000

Daqana:

1. **Replace existing HMINI calls with ROOT calls.**
When this works, the old presenter can be discarded.
2. **Eventually rewrite to analyse event objects.**



```
Tera Term - ephysx1.ph.bham.ac.uk VT
File Edit Setup Control Window Help

DATA ACQUISITION PARAMETERS
D Run comment..... :
E Edit run comment at run start..... : ON
F Maximum file size (Mbytes)..... : 0
G Autostart next run..... : OFF
C Camac access enabled..... : OFF
H FEM parameters
I TXM parameters
J FADC parameters
K TCM parameters
L CPM parameters
U CTPD parameters
W JPM parameters
S DSS parameters
M Magic slice number (for histos)..... : 0
U UIC parameters
P Print prod_pars to a file
Q Return to RUN SETUP

Make a selection>
```

```
Tera Term - hoptw97.pp.rl.ac.uk VT
File Edit Setup Control Window Help

DATA ACQUISITION PARAMETERS
D Run comment..... :
E Edit run comment at run start..... : ON
F Maximum file size (Mbytes)..... : 0
G Autostart next run..... : OFF
C Camac access enabled..... : OFF
K TCM parameters
S DSS parameters
M Magic slice number (for histos)..... : 0
U UIC parameters
P Print prod_pars to a file
Q Return to RUN SETUP

Make a selection> |
```