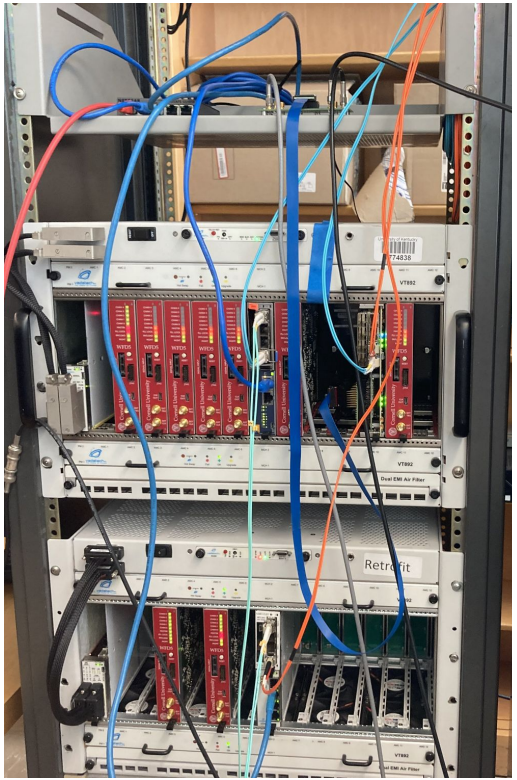
g-2 Modified DAQ Development Progress

- Added second crate to UKY test stand
- Debugged testbeam frontend software to handle multiple crates
- Can generate midas files with events built from multiple crates

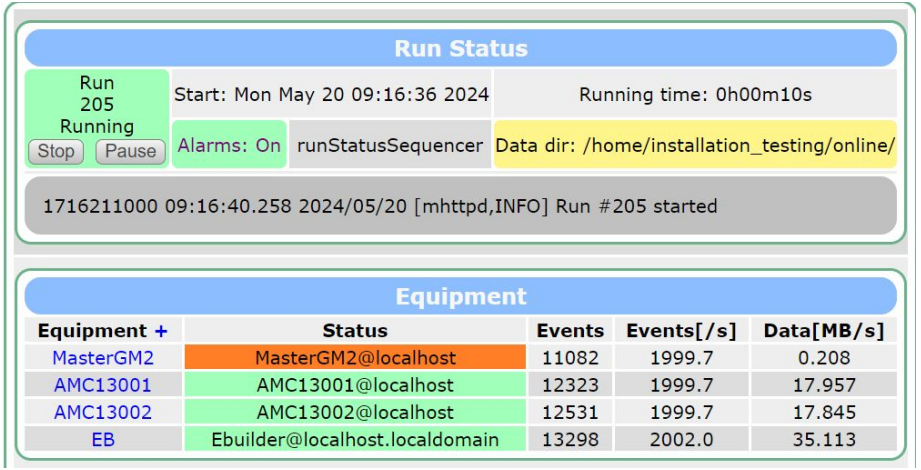


UKY test stand MicroTCA crates

Additional Debugging

- “CCC: Run abort” alarm shortening runs
  - FC7/WFD5 “performance” evaluation runs(?)

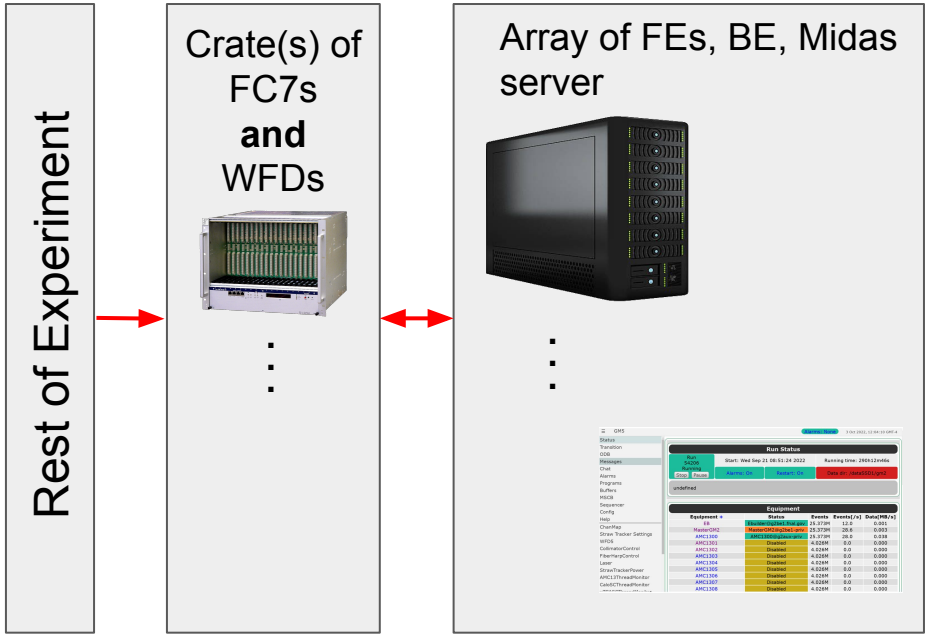
- Sean analyzed test beam and UKY teststand performance data.
  - Bottlenecks are due to rare, long pauses between events
  - Yet to determine exact reason for pauses



Midas Experiment running at 2kHz with multiple crates

g-2 Modified DAQ Development Outline

- Establish communication with all crate modules
- Finish hardware assembly
- Get frontend code and monitoring software running
- Add second crate to teststand
- Debug (increase) rate capabilities by optimizing frontend code
- Replace meinberg GPS trigger with parallel port triggers
- Write user manual for this DAQ



Simplified DAQ Diagram