

DAQ proposal for DS-proto-0 @ CERN, period March'19 ...



Midas frontend: V1725 readout Midas data server (mserver) Midas web server (mhttpd) Midas data logger (mlogger) Midas data monitor (mdsproto, root based)

Applications running on DSPROTODAQ

Applications running on DSPROTOANA Root: Online/Offline data analyzer (root based)

- System: Running Mode : Event-by-Event
- Up to 64 input
- Midas event composed of data collected after global trigger generation.
- Each event composed of 4 Midas banks (one per module) AND ChronoBox bank.
- Each V1725 bank is composed of N samples for each channels in RAW format.
- ChronoBox bank composed of Global trigger timestamp AND trigger primitive mask, counters.
- HW clock Synchronized across all 4 V1725 + ChronoBox
- Timestamps across banks are checked
- LVDS inputs width extension
- Enable on each pair of LVDS
- Enable for Top/Bot grouping
- Logic selection at the group level
- Time Sync pattern at start of run
- Busy with time extension

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