Sample artdaq-based DAQ system
UML Deployment Diagram

J. Freeman, 10/13/14

Run Control, supplied by the experiment, communicates with the artdaq processes via XML-RPC (connections not explicitly shown)

<<device>>
Experiment's Desktop #1

Run Control

<<device>>
Experiment's Front End Host

<<device>>
Detector Component(s) #1

<<Experiment's Communication Protocol #1>>

BoardReaderMain

<<device>>
Experiment's Desktop #2

EventBuilderMain

<<MPI>>

<<device>>
Experiment's Desktop #4

AggregatorMain

Typically, one AggregatorMain application's primary job is saving complete events to disk

<<device>>
(Semi?)permanent storage

<<device>>
Detector Component(s) #2

<<Experiment's Communication Protocol #2>>

BoardReaderMain

<<MPI>>

<<device>>
Experiment's Desktop #3

EventBuilderMain

<<MPI>>

<<shared memory>>

AggregatorMain

Experiment's Online Monitoring Webpage

Different types of detector components may (or may not) have different communication protocols with the different BoardReaderMain applications