

Data Acquisition (DAQ) Update

Reminder of Layout

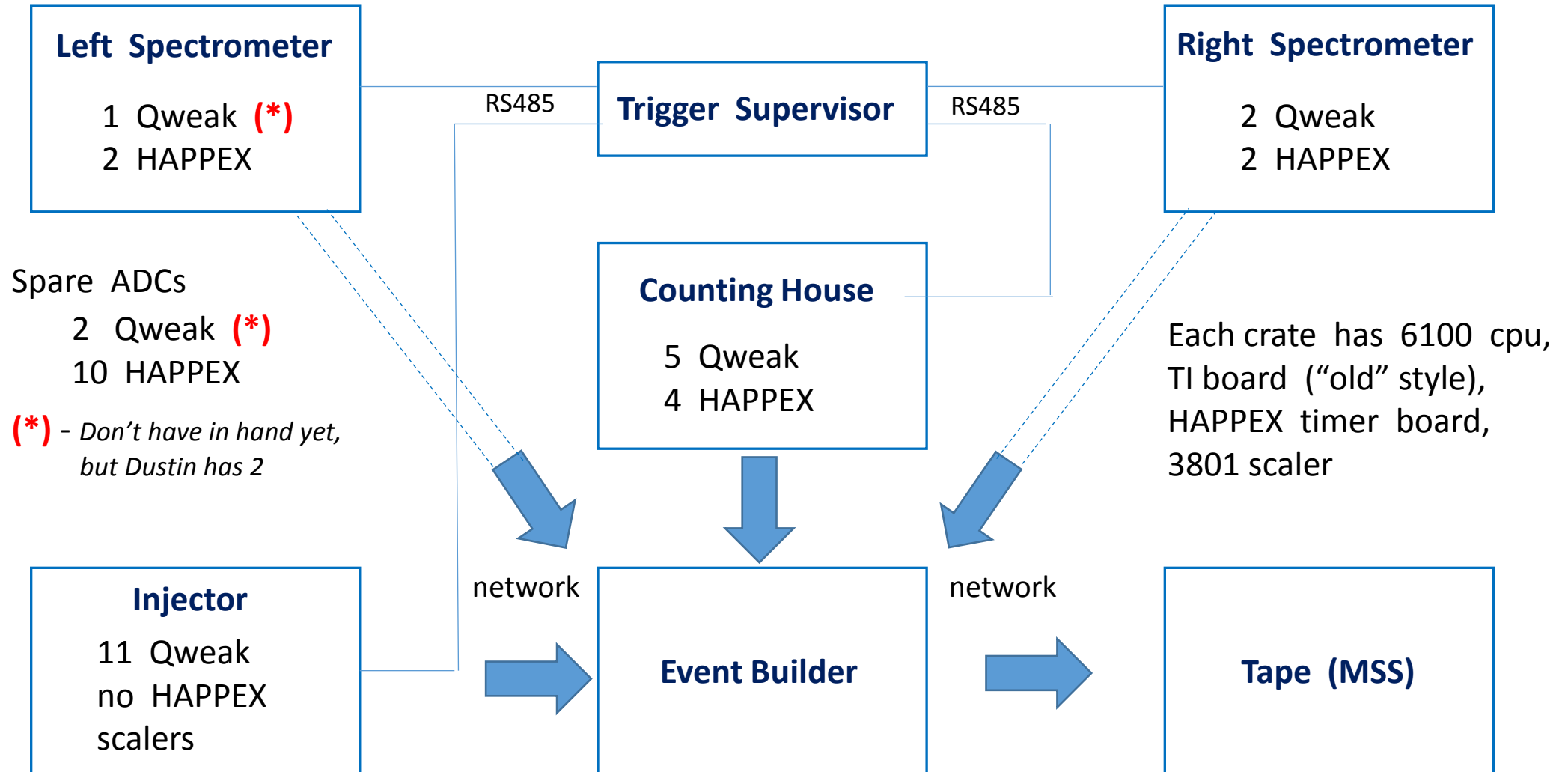
Present Status

Recent work (since last collaboration meeting)

To - Do List

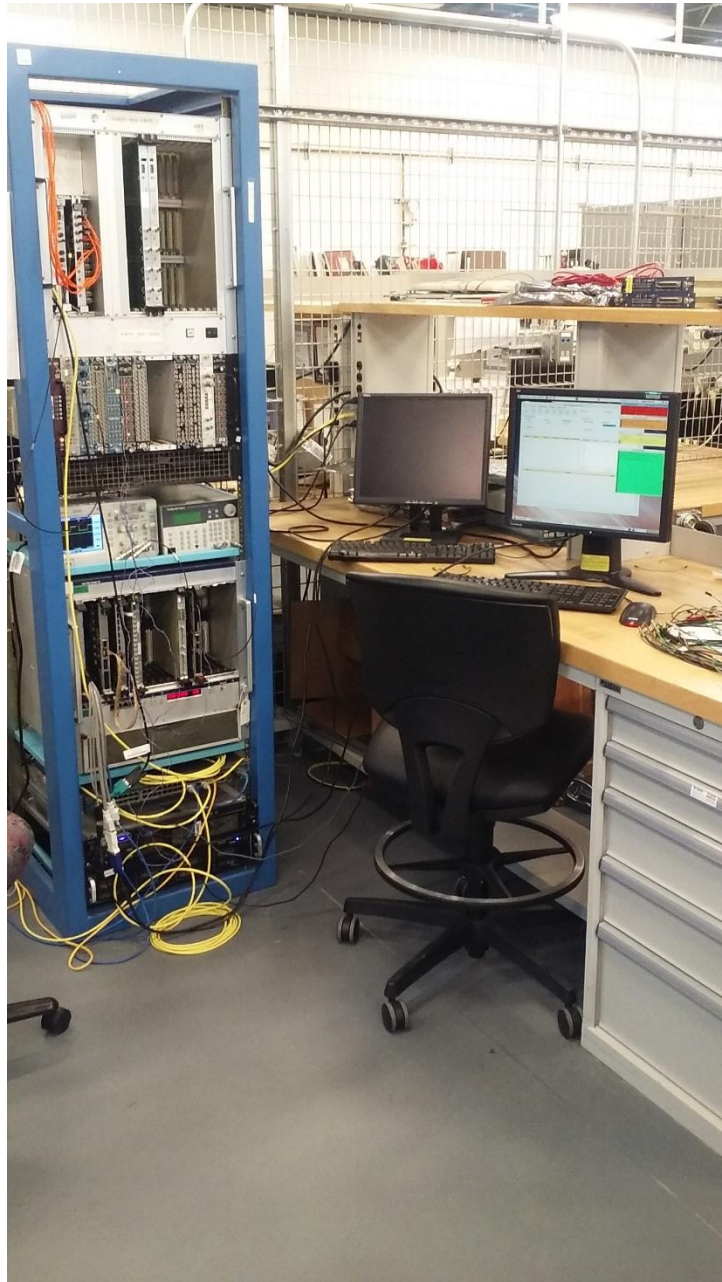
See the September 2017 talk for Inventory, Comparison of Qweak and HAPPEX ADCs, and more discussion of Upgrades.

Parity DAQ



Status -- Overview

- We have a good inventory of all parts plus 2 or more spares of everything. (see Sept 2017 talk)
- Could run all “critical” signals in Qweak ADCs if we wanted to. HAPPEX ADCs as backups and/or for lower-resolution signals.
- Injector and Counting-room DAQ basically works. L-HRS and R-HRS DAQs are deployed but need more work to get into shape. Can happen this summer
- I’m confident the DAQ will be ready



DAQ Test Stand

Located in the TEDF building

Recent effort to port Compton counting DAQ to **CODA 3.07**. Seems to work but note that data structures are different.

Bryan Moffit volunteers to help with **CODA3** porting of Parity DAQ if we decide to do that. However, it requires getting rid of our vxWorks cpu's and a buying Linux/Intel frontends.

To – Do List for DAQ (and related)

Job	Status
Revive all crates	Can finish in summer 2018
Feedback	Underway, needed by Injector Studies
Run-dependent database generation	Software exists, need to revive
Coil pulsing	ditto
Panguin	ditto
Prompt analysis	ditto
Synchronization check	Dismantled, need to revive
E-logbook entries	Needs work since new E-logbook
DAQ for GEMs is needed.	The rest of the HRS DAQ is ready.
Upgrade to CODA 3 ???	If we decide to do it, costs ~30K\$ and we need to start soon. Not really needed.