Correlator meeting, Arpad's room, 13 February 2014, 11.00 am
Present: Guifré, Salvatore, Jonathan, Des, Harro

- progress reports:

. Guifré
Has checked some data. He's busy installing sfxc on marcopolo so he can run sfxc himself and compare against uniboard. Marcopolo also has jive5ab and his notebook has Erlang. All basic units seem to be in place, only needs instructions on getting an Erlang runscript for the correlator. Des will do that.

. Jonathan/Salvatore
Fixed a bug which kept stations processed on FN#1 from working so in theory we might have a 16 station correlator. There was a slave counter in the non-master FN's not updating causing a problem. At least with 11 stations the data looks better. [Harro remarks: "better doesn't sound like good?"]. Signal tap showed that sometimes the BN is unsynchronized. Clearly connected to integration time - data is bad after first integration. Should be easy to find + fix because it's predictable.

Remaining probs:
* timing errors remain consistently in the FN design. Under investiation by Salvatore
* the spikes in the phases (see last week). Phase jumps by 80 - 120 degrees for one integration. Very close to 90 degrees (i.e. a repeated sample). Also indeed a repeated sample is seen in those affected integrations. The thought was that this was handled correctly. Simulation of interaction between pkt_rx and delay module are being done because these two modules are the ones involved in this.

. Des
Is one step further - now debugging code in stead of writing code. Harro and Des are ironing out errors in Harro's instructions (typo's, missing commands, dealing with different flavours of Mark5).

-aob

nothing

-next meeting

Thursday 20th february 11.00 am, after jive coffee