Correlator implementation and Control meeting, 31/01/2013
11.00 local, Arpads room

present Jonathan, Salvatore, Harro, Des, Arpad

Minutes of meeting of weeks before not written down (shame on me..)

(old) action items
Jonathan: test fix of Erlang performance problems reading UDP packets
(on hold)
Jonathan + Salvatore: figure out how to make packet spacing adjustable
(on hold)
Des: investigate Suse and Erlang, how to keep Erlang synched across
platforms
#still unknown

Most work has gone to writing and fixing documents for design review.

Jonathan: found and fixed flooding bug, which according to Salvatore is
not a bug, but a wrong use of module. Tests ongoing with noisy sine
waves, compare with simulations.

Truncation in intermediate FFT steps wrong, handles negative numbers
wrongly. Causes increase in DC. Final truncation after FFT idem ditto.
Sergei is doing simulations to see if this can be cause. Salvatore is
checking the effect of the final truncation with matlab. Made correct
truncation, see if this solves it. Fixing truncation in intermediate steps
probably not possible, could remove truncation and limit input bus width.
Causes reduced accuracy.

One bug left, seemingly, occasional missing of one integration.