

Correlator meeting, Arpad's room, October 4 2012, 11.00 am
Present: Jonathan, Des, Jintao, Harro, Salvatore, Arpad

actions:

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/Harro: save N11L4 scan 11 reference data from Mark5 diskpack to
file

Harro is still waiting for LTO4 tape to write data to tape. Remains

- Des: write up how to deal with timestamps in the
correlator

done remove

-Jintao to write up latest insight in pulsar gating module.

done remove

- Arpad: schedule PG meeting with sfxc people (Aard? or both?) discussing
Jintao's three PG scenarios to comment on their
science/applicability/comparativeness to sfxc

done, meeting held, remove

update

Jonathan: tests done, bugs found. Erlang uses 2 write to write into part of
register, wreaks havoc if write is used as trigger. Fixed by Harro. Racing
condition in Fifo, fixed by a wait of 16 cycles. Caused by different clock
speeds of MM clock and system clock. Salvatore not convinced, but J+S
will discuss further offline. Zero check is needed, in order to be able to
read last 2 seconds of data from memory. Still no data ends up in files,
found that destination Mac address is 0. Will be investigated.

Salvatore: changes to DDR interface on BN, synthesizes now

Jintao: investigating binary pulsar needs, see if linear will be ok on 1
second scales.

Des: working on metadata, need to enable more uniboards at a time

Harro: firmware fix (see above), ongoing fight with j2ms2, need to inspect
every packet that comes out of correlator...

next meeting: October 11, after JIVE coffee, Arpad will not be there