

16.1.2013

Olaf reports:

in the tests I ran last night, I noticed that some HBA tiles/elements did not accept delays for the analog beam forming. Here is the corresponding output from `rspctl --realdelays`:

```

HBA[66].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[67].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[96].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[97].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[160].real delays= 204 212 220 228 188 196 200 208 172 180 184 ??? 156 160 168 176
HBA[161].real delays= 204 212 220 228 188 196 200 208 172 180 184 ??? 156 160 168 176
HBA[166].real delays= 204 212 220 228 188 196 200 208 172 180 184 ??? 156 160 168 176
HBA[167].real delays= 204 212 220 228 188 196 200 208 172 180 184 ??? 156 160 168 176

```

In other words 66/67,96/97 did not work at all, and 160/161,166/167 had problems with one element. I tried it again by going back to swlevel 0, but to no avail.

[Note:] This was testted after directly switching to rcumode 5, i.e. going to swlevel 3, defining a beam and then testing after BeamControl is done setting everyting up. No tests with first going to rcumode 5 and testing the analog beam forming after the tiles have been in switched on for a while was done. (See 26th November 2012.)

21.1.2013

HBA Modem-Tests:

In all tests I did, we had:

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HBA[66].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[67].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[96].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???
HBA[97].real delays= ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ??? ???

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In the first part of modemtest, also those two consistently showed up:

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HBA[26].real delays= 1 2 3 4 5 6 7 8 9 10 11 ??? 13 14 15 16
HBA[27].real delays= 1 2 3 4 5 6 7 8 9 10 11 ??? 13 14 15 16
HBA[166].real delays= 1 2 3 4 5 6 7 8 9 10 11 ??? 13 14 15 16
HBA[167].real delays= 1 2 3 4 5 6 7 8 9 10 11 ??? 13 14 15 16

```

In other tests they were fine.

31.1.2013

Talking to ASTRON:

Apparently all HBA's were working during the stationtest on 30.1.2013.

Testing Juelich LTA -> Effelsberg transfer during ILT obs

There is missing data even when no data transfer is taking place. During data transfer more data seems to go missing...

Number of flagged LBAs in ILT mode

In ILT mode in rcumode 3, 130 out of 192 RCUs are switched OFF (65 out of 96 antennas, 68%), this is because they are flagged in the ASTRON system health database. Apparently the RFI at in LBA Effelsberg causes the stationtest to flag many LBAs.