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## **dbbcif(a|b|c|d|e|f|g|h)=[input[,attenuation[,filter[,target\_agc]]]]**

Sets configuration for (G)CoMo-IF modules.

Parameters:

synth\_oen: IF input 1 (no downconversion) (1) or IF input 2 (with downconversion) (2)

selecting input 1 will disable the Synthesizer tone for the downconversion LO

attenuation: *agc* for automatic gain control

*man* for manual gain control, retaining last agc value

*value* between and 0 (0 dB) and 63 (31.5 dB) in stepsize of 0.5 dB

filter: no function for DBBC3, deprecated

target\_agc: target power level for agc mode

## **samplerstats=board\_nr**

Prints out and validates sampler statistics (power (gain), offset and delay)

## **core3hstats=board\_nr**

Prints out power level and bit statistics of the two FIR filters.

## **time**

prints out timestamps (VDIF time) of all boards. Timestamps must be identical.

## **checkphase[=board\_nr]**

Checks the delay phase calibration of specified ADB3L sampler board, or of all boards if board number is not specified

## **tap=board\_nr,filter\_nr,file\_name**

Command to load the filter coefficients for the specified board\_nr (1 to 8) and filter\_nr (1 or 2). The file with the filter coefficients needs to be present in the config folder (like C:\DBBC\_CONF\OCT\_D\_120\)

## **exit**

Exit Client Program.

## **reconfigure**

Reloads firmware to the Core3H, than reinitializes ADB3L and Core3H from the config files and performs timesynchronization.

## **cal\_offset=board\_nr**

Calibrates the offset for selected ADB3L. The CoMo connected to this ADB3L should be set to manual attenuation with a power level between 5000 and 10000 to get optimal calibration.

## **cal\_gain=board\_nr**

Calibrates the gain for selected ADB3L. The CoMo connected to this ADB3L should be set to agc with 32000 power target to get optimal calibration.

## **cal\_delay=board\_nr**

Calibrates the delay for selected ADB3L. The CoMo connected to this ADB3L should be set to agc with 32000 power target to get optimal calibration.

## **core3hinit[=board\_nr]**

Reinitializes selected Core3H (starting with 1) from Core3H config files or all Core3H if board parameter not specified.

## **adb3l=command**

Sends specified command to adb3l. (selection of ADB3L is included in the command)

## **core3h=board\_nr,command**

Sends specified command to selected Core3H

## **synth=board\_nr,command**

Sends specified command to selected GCoMo Synthesizer (1-4)

## **pps\_delay**

Prints out the delay between internal and external 1PPS for all boards in ns.

## **printmainconfig**

Prints out the main configuration file on the console

## **printadb3lconfig**

Prints out the configuration file for the ADB3L boards on the console

## **printcore3hconfig=board\_nr**

Prints out the configuration file for the specified Core3H on the console

## **version**

Prints out the version of the Control Software.