Command:

macros/cis/CIS\_DB\_Update.py --date "September 29, 2021" "October 27, 2021"

With output redirection and free terminal:

macros/cis/CIS\_DB\_Update.py --date "October 07, 2021" "October 27, 2021" &> runs.txt &

To check progress output anytime:

Tail -f runs.txt

List of Runs since Sep:

run [402692, 'CIS', '2021-10-01 14:03:07,2021-10-01 14:04:28']

run [402701, 'CIS', '2021-10-01 14:49:20,2021-10-01 14:50:48']

run [402709, 'CIS', '2021-10-01 15:14:26,2021-10-01 15:15:47']

run [402967, 'CIS', '2021-10-06 07:42:14,2021-10-06 07:43:29']

run [402997, 'CIS', '2021-10-06 13:49:44,2021-10-06 13:51:07']

run [403033, 'CIS', '2021-10-06 16:45:25,2021-10-06 16:46:38']

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run [403569, 'CIS', '2021-10-12 21:58:00,2021-10-12 21:58:56']

run [403571, 'CIS', '2021-10-12 22:09:49,2021-10-12 22:10:45']

run [403574, 'CIS', '2021-10-12 22:18:21,2021-10-12 22:19:40']

run [403637, 'CIS', '2021-10-13 11:02:52,2021-10-13 11:04:00']

run [403640, 'CIS', '2021-10-13 11:08:03,2021-10-13 11:09:00']

run [403642, 'CIS', '2021-10-13 11:12:58,2021-10-13 11:14:14']

run [403645, 'CIS', '2021-10-13 11:17:40,2021-10-13 11:18:36']

run [403801, 'CIS', '2021-10-14 11:21:00,2021-10-14 11:21:56']

run [403804, 'CIS', '2021-10-14 11:26:57,2021-10-14 11:28:04']

run [403806, 'CIS', '2021-10-14 11:32:11,2021-10-14 11:33:07']

run [404171, 'CIS', '2021-10-15 14:18:11,2021-10-15 14:19:30']

run [404497, 'CIS', '2021-10-20 10:28:59,2021-10-20 10:30:22']

run [404604, 'CIS', '2021-10-21 08:45:47,2021-10-21 08:47:04']

run [404750, 'CIS', '2021-10-22 10:32:01,2021-10-22 10:33:40']

run [404843, 'CIS', '2021-10-23 09:51:06,2021-10-23 09:52:48']

run [404924, 'CIS', '2021-10-25 11:38:45,2021-10-25 11:40:07']

LBC: Most of the runs on 10/6 look bad for both highgain and lowgain

LBA: one of the ones on 10/1 looks bad and all of the ones on 10/7 look bad

Ones on 6th are also bad for EBA

Also bad for EBC

Solution just ignore runs before that

macros/cis/CIS\_DB\_Update.py --date "September 29, 2021" "October 27, 2021"

Answer all the questions below and click **Finish the update**:

**Sqlite file data comment:** khughes (Fri Oct 29 00:06:56 2021): Update for run 404924 from file corr2.txt.

**Modules found in sqlite file:** LBA06 LBA14 LBA15 LBA21 LBA31 LBA35 LBA42 LBA43 LBA45 LBA47 LBA55 LBA59 LBA62 LBA64 LBC01 LBC08 LBC11 LBC13 LBC16 LBC17 LBC19 LBC20 LBC23 LBC31 LBC41 LBC43 LBC44 LBC46 LBC47 LBC48 LBC51 LBC52 LBC53 LBC55 LBC57 LBC59 LBC60 LBC62 LBC63 EBA01 EBA07 EBA08 EBA34 EBA40 EBA42 EBA49 EBA62 EBA64 EBC01 EBC04 EBC05 EBC09 EBC11 EBC13 EBC18 EBC21 EBC22 EBC23 EBC30 EBC37 EBC43 EBC44 EBC56 EBC61

**Change thresholds:**

SMALL = 0.0001 %

INFO = 1.0 %

WARNING = 10.0 %

ERROR = 1000.0 %

**Difference between current and new calibration:**

Affected module: LBA06

- Info: chn 0, adc 1 new/old value = 78.288 / 81.669, diff = -4.1 %

- Info: chn 1, adc 1 new/old value = 81.415 / 80.533, diff = 1.1 %

- Info: chn 2, adc 0 new/old value = 1.276 / 1.293, diff = -1.3 %

- Info: chn 2, adc 1 new/old value = 81.909 / 80.572, diff = 1.7 %

- Info: chn 3, adc 0 new/old value = 1.273 / 1.289, diff = -1.3 %

- Info: chn 4, adc 1 new/old value = 81.105 / 79.478, diff = 2.0 %

- Info: chn 5, adc 1 new/old value = 82.136 / 79.824, diff = 2.9 %

- Info: chn 37, adc 0 new/old value = 1.308 / 1.287, diff = 1.7 %

- Info: chn 37, adc 1 new/old value = 82.719 / 81.169, diff = 1.9 %

- Info: chn 39, adc 1 new/old value = 80.531 / 78.946, diff = 2.0 %

- Info: chn 40, adc 1 new/old value = 77.757 / 81.272, diff = -4.3 %

- Info: chn 41, adc 0 new/old value = 1.308 / 1.283, diff = 2.0 %

- Info: chn 41, adc 1 new/old value = 78.734 / 82.245, diff = -4.3 %

- Info: chn 47, adc 0 new/old value = 1.302 / 1.318, diff = -1.2 %

Affected module: LBA14

- **Warning**: chn 1, adc 1 new/old value = 40.675 / 81.265, diff = **-49.9 %**

- **Warning**: chn 3, adc 1 new/old value = 41.699 / 82.334, diff = **-49.4 %**

- **Warning**: chn 5, adc 1 new/old value = 42.359 / 81.729, diff = **-48.2 %**

- **Warning**: chn 7, adc 1 new/old value = 41.205 / 81.486, diff = **-49.4 %**

- **Warning**: chn 9, adc 1 new/old value = 40.874 / 80.861, diff = **-49.5 %**

- **Warning**: chn 11, adc 1 new/old value = 42.759 / 81.443, diff = **-47.5 %**

- **Warning**: chn 12, adc 1 new/old value = 39.254 / 81.083, diff = **-51.6 %**

- **Warning**: chn 13, adc 1 new/old value = 40.677 / 80.115, diff = **-49.2 %**

- **Warning**: chn 15, adc 1 new/old value = 41.145 / 80.784, diff = **-49.1 %**

- **Warning**: chn 16, adc 1 new/old value = 41.563 / 81.452, diff = **-49.0 %**

- **Warning**: chn 17, adc 1 new/old value = 41.230 / 80.768, diff = **-49.0 %**

- **Warning**: chn 18, adc 1 new/old value = 41.828 / 80.399, diff = **-48.0 %**

- **Warning**: chn 20, adc 1 new/old value = 41.243 / 79.957, diff = **-48.4 %**

- **Warning**: chn 21, adc 1 new/old value = 42.117 / 79.667, diff = **-47.1 %**

- **Warning**: chn 23, adc 1 new/old value = 40.270 / 79.505, diff = **-49.3 %**

- **Warning**: chn 25, adc 1 new/old value = 40.981 / 80.654, diff = **-49.2 %**

- **Warning**: chn 27, adc 1 new/old value = 41.693 / 80.810, diff = **-48.4 %**

- **Warning**: chn 29, adc 1 new/old value = 40.237 / 81.259, diff = **-50.5 %**

- **Warning**: chn 33, adc 1 new/old value = 41.797 / 81.020, diff = **-48.4 %**

- **Warning**: chn 34, adc 1 new/old value = 40.758 / 80.755, diff = **-49.5 %**

- Info: chn 35, adc 0 new/old value = 1.259 / 1.280, diff = -1.6 %

- **Warning**: chn 35, adc 1 new/old value = 42.398 / 82.310, diff = **-48.5 %**

- **Warning**: chn 36, adc 1 new/old value = 41.685 / 82.137, diff = **-49.2 %**

- **Warning**: chn 37, adc 1 new/old value = 42.071 / 80.548, diff = **-47.8 %**

- **Warning**: chn 38, adc 1 new/old value = 40.387 / 79.712, diff = **-49.3 %**

- **Warning**: chn 39, adc 1 new/old value = 42.453 / 80.810, diff = **-47.5 %**

- Info: chn 45, adc 0 new/old value = 1.264 / 1.285, diff = -1.6 %

- **Warning**: chn 45, adc 1 new/old value = 41.032 / 80.055, diff = **-48.7 %**

- **Warning**: chn 47, adc 1 new/old value = 41.885 / 81.240, diff = **-48.4 %**

Affected module: LBA15

- Info: chn 2, adc 1 new/old value = 78.340 / 79.678, diff = -1.7 % Status: 2000 (Channel masked (unspecified)) 2105 (Bad timing) => **BAD**

Affected module: LBA21

- Info: chn 45, adc 1 new/old value = 81.959 / 83.606, diff = -2.0 %

Affected module: LBA35

- Info: chn 8, adc 1 new/old value = 76.955 / 75.939, diff = 1.3 % Status: 1104 (Bad CIS calibration) 2000 (Channel masked (unspecified)) => **BAD**

Affected module: LBA59

- Info: chn 38, adc 0 new/old value = 1.260 / 1.282, diff = -1.7 % Status: 2000 (Channel masked (unspecified)) 2101 (Bad laser calibration) 2103 (Bad cesium calibration) => **BAD**

- Info: chn 38, adc 1 new/old value = 80.010 / 81.645, diff = -2.0 % Status: 2000 (Channel masked (unspecified)) 2101 (Bad laser calibration) 2103 (Bad cesium calibration) => **BAD**

Affected module: LBA62

- Info: chn 26, adc 1 new/old value = 103.469 / 81.840, diff = **26.4 %** Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

Affected module: LBA64

- Info: chn 29, adc 1 new/old value = 74.643 / 77.411, diff = -3.6 % Status: 1104 (Bad CIS calibration) => Affected

Affected module: LBC01

- Info: chn 25, adc 1 new/old value = 72.206 / 73.667, diff = -2.0 % Status: 1104 (Bad CIS calibration) => Affected

Affected module: LBC08

- Info: chn 3, adc 0 new/old value = 1.054 / 0.970, diff = 8.7 % Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

- Info: chn 42, adc 0 new/old value = 1.293 / 1.259, diff = 2.8 %

- Info: chn 42, adc 1 new/old value = 82.629 / 80.207, diff = 3.0 %

- Info: chn 46, adc 1 new/old value = 79.797 / 80.822, diff = -1.3 %

Affected module: LBC13

- Info: chn 15, adc 1 new/old value = 80.347 / 79.327, diff = 1.3 % Status: 2105 (Bad timing) => Affected

Affected module: LBC16

- Info: chn 29, adc 1 new/old value = 75.305 / 79.615, diff = -5.4 %

- Info: chn 38, adc 0 new/old value = 1.295 / 1.264, diff = 2.5 %

Affected module: LBC19

- **Warning**: chn 22, adc 0 new/old value = 0.630 / 1.260, diff = **-50.0 %**

Affected module: LBC23

- Info: chn 20, adc 0 new/old value = 1.787 / 1.630, diff = 9.7 % Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) 2101 (Bad laser calibration) 2105 (Bad timing) => **BAD**

Affected module: LBC31

- Info: chn 45, adc 0 new/old value = 1.295 / 1.278, diff = 1.3 %

- Info: chn 45, adc 1 new/old value = 81.420 / 80.206, diff = 1.5 %

Affected module: LBC41

- Info: chn 25, adc 1 new/old value = 47.261 / 120.733, diff = **-60.9 %** Status: 1002 (Stuck bit) 1103 (No CIS calibration) 1104 (Bad CIS calibration) 2000 (Channel masked (unspecified)) => **BAD**

Affected module: LBC43

- Info: chn 24, adc 1 new/old value = 75.911 / 82.459, diff = -7.9 % Status: 1000 (ADC masked (unspecified)) => **BAD**

Affected module: LBC44

- Info: chn 12, adc 1 new/old value = 80.270 / 81.668, diff = -1.7 %

Affected module: LBC46

- Info: chn 4, adc 1 new/old value = 79.490 / 76.976, diff = 3.3 % Status: 1104 (Bad CIS calibration) => Affected

Affected module: LBC47

- **Warning**: chn 35, adc 0 new/old value = 0.743 / 1.299, diff = **-42.8 %**

Affected module: LBC52

- **Warning**: chn 18, adc 1 new/old value = 110.754 / 81.265, diff = **36.3 %**

Affected module: LBC57

- Info: chn 6, adc 1 new/old value = 75.199 / 77.413, diff = -2.9 %

Affected module: LBC62

- Info: chn 8, adc 1 new/old value = 76.702 / 80.562, diff = -4.8 %

Affected module: EBA07

- Info: chn 31, adc 0 new/old value = 0.917 / 0.636, diff = **44.2 %** Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

Affected module: EBA34

- Info: chn 8, adc 0 new/old value = 1.270 / 0.644, diff = **97.3 %** Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

Affected module: EBA42

- Info: chn 30, adc 1 new/old value = 75.207 / 78.740, diff = -4.5 %

Affected module: EBA49

- Info: chn 0, adc 1 new/old value = 70.787 / 75.926, diff = -6.8 % Status: 1104 (Bad CIS calibration) => Affected

Affected module: EBA64

- **Warning**: chn 3, adc 1 new/old value = 40.445 / 79.610, diff = **-49.2 %**

Affected module: EBC11

- Info: chn 11, adc 0 new/old value = 1.272 / 1.296, diff = -1.8 %

Affected module: EBC13

- Info: chn 3, adc 0 new/old value = 1.345 / 1.323, diff = 1.6 % Status: 1104 (Bad CIS calibration) => Affected

Affected module: EBC18

- Info: chn 4, adc 0 new/old value = 0.627 / 0.666, diff = -5.8 % Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

Affected module: EBC23

- Info: chn 1, adc 0 new/old value = 1.234 / 1.280, diff = -3.5 %

- Info: chn 3, adc 1 new/old value = 75.371 / 79.563, diff = -5.3 %

- Info: chn 31, adc 0 new/old value = 0.790 / 0.662, diff = **19.4 %** Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

- **Warning**: chn 36, adc 1 new/old value = 68.790 / 77.323, diff = **-11.0 %**

Affected module: EBC30

- Info: chn 11, adc 0 new/old value = 1.220 / 1.268, diff = -3.8 %

- Info: chn 11, adc 1 new/old value = 75.906 / 78.956, diff = -3.9 %

Affected module: EBC43

- **Warning**: chn 36, adc 0 new/old value = 0.833 / 1.298, diff = **-35.8 %**

- **Warning**: chn 36, adc 1 new/old value = 54.530 / 81.181, diff = **-32.8 %**

- **Warning**: chn 37, adc 0 new/old value = 0.823 / 1.306, diff = **-37.0 %**

- **Warning**: chn 37, adc 1 new/old value = 52.245 / 81.960, diff = **-36.3 %**

- **Warning**: chn 38, adc 0 new/old value = 0.838 / 1.260, diff = **-33.5 %**

- **Warning**: chn 38, adc 1 new/old value = 52.825 / 82.708, diff = **-36.1 %**

- **Warning**: chn 39, adc 0 new/old value = 0.847 / 1.337, diff = **-36.7 %**

- **Warning**: chn 39, adc 1 new/old value = 54.525 / 81.766, diff = **-33.3 %**

- **Warning**: chn 40, adc 0 new/old value = 0.861 / 1.259, diff = **-31.6 %**

- **Warning**: chn 40, adc 1 new/old value = 52.266 / 82.099, diff = **-36.3 %**

- **Warning**: chn 41, adc 0 new/old value = 0.852 / 1.258, diff = **-32.3 %**

- **Warning**: chn 41, adc 1 new/old value = 53.713 / 81.240, diff = **-33.9 %**

Affected module: EBC56

- Info: chn 41, adc 0 new/old value = 1.173 / 1.214, diff = -3.4 % Status: 1000 (ADC masked (unspecified)) 1104 (Bad CIS calibration) => **BAD**

Affected module: EBC61

- Info: chn 8, adc 0 new/old value = 1.282 / 1.308, diff = -2.0 %

**Numbers of changes within limits:**

SMALL = 510 changes

INFO = 54 changes

WARNING = 44 changes

ERROR = 0 changes

No changes = 5536 values

CRITICAL: Multi Version folder /TILE/OFL02/STATUS/ADC does not contain the required tag TileOfl02StatusAdc-RUN2-UPD4-21 Exiting

Closed database connection

Closed Oracle database connection

Finished with 1 error(s) at 29 Oct 2021 01:33:13.

2021-10-29 01:33:13.684082 RunRobot.py Finalizing

FullDataPath is: /var/vhost/atlas-tile-calib/secure/v8/TileCoolUpdateRobot/files/v8/q\_211028232952qcka

End scriptRunner.sh

macros/cis/Public\_Super\_Macro.py --history -0.5 0.5 --date 'October 7, 2020' 'October 27, 2020' --ndate 'October 7, 2021' 'October 27, 2021' --datelabel 'October 2020 vs 2021'

macros/cis/Public\_Super\_Macro.py --date '10/07/21' '10/27/21' --mean --lowmem --datelabel 'October 7 - October 27, 2021' --rmsplots --flagplots --gcals

Runs we didnt’ include

run [402692, 'CIS', '2021-10-01 14:03:07,2021-10-01 14:04:28']

run [402701, 'CIS', '2021-10-01 14:49:20,2021-10-01 14:50:48']

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run [403033, 'CIS', '2021-10-06 16:45:25,2021-10-06 16:46:38']

403033 Oct 6

LG amp/charge: slightly off for LBA, really off for LBC, EBA, EBC

HG amp/charge: ok LBA, bad for LBC, EBA, EBC

LG Timing: BAD LBA, LBC, EBA, EBC

HG Timing: BAD LBA, LBC, EBA, EBC

402709 Oct 1

amp/charge LG: bad LBA, ok LBC, bad EBA, ok EBC

amp/charge HG: Bad LBA, ok LBC, EBA, EBC

LG timing; all good

HG timing: all good