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Report of Calibration
PSC S/N: 2-HSS-001
2025-08-12 14:54:15

Calibration Current standard: BNL PSC ATE S/N 001
Calibration Volt standard: HP 3458A-002 S/N 2823A 06900
Calibration Resistance standard: Fluke 742A-1 S/N 1063008
End Header


lab{1}Chan1
Burden resistor = 4.5000

Measuring initial gains and offsets
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.000986     1.018304    -1.249576    -1.215678     0.978755     0.007076
 -400.065990   400.405836  -397.612366  -397.448517   400.672913     0.063210


                                   dacSP         dcct1         dcct2         dacRB
Initial measured offsets:       -0.016509     -0.255368     -0.221796      0.000000
Initial measured gains:          1.000808      0.993229      0.992903      1.000768
Gain corrections:                1.000808      1.006818      1.007148      1.000000


Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset
DAC SP    DAC RB
1.000000   0.976319
400.000000    400.607391

Measured offset: -0.025263
Measured gain: 1.001582
Gain correction: 0.998421


Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.001060     1.001547    -1.001826    -1.002197     0.991100     0.005966
 -400.067004   400.066561  -400.064484  -400.065125   400.062744     0.081248



                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets:         -0.000490     -0.000774     -0.001144     -0.010464
Final measured gains:            0.999998      0.999992      0.999992      1.000017



                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets mean: -0.000380     -0.000573     -0.000656     -0.010189
Final measured offsets stdev: 0.000445      0.000481      0.000262      0.000367
Final measured gains mean:    0.999996      0.999994      0.999993      1.000003
Final measured gains stdev:   0.000004      0.000003      0.000003      0.000011

Saving channel 1 calibration constants to qspi

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lab{1}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.001113     1.016823    -1.126369    -1.134224     1.000765    -0.000252
 -200.012968   200.108255  -198.685410  -198.659744   200.249832     0.094319

                                   dacSP         dcct1         dcct2          dacRB
Initial measured offsets:       -0.015310     -0.132564     -0.140588       0.000000
Initial measured gains:          1.000400      0.992700      0.992531       1.000792
Gain corrections:                1.000400      1.007354      1.007525       1.000000

Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset
DAC SP    DAC RB
1.000000   0.999953
200.000000   200.234650

Measured offset: -0.001226
Measured gain: 1.001179
Gain correction: 0.998822

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.001316     1.001296    -1.001651    -1.001336     1.001374     0.011483
 -200.012588   200.012613  -200.012665  -200.013382   200.017319     0.098665

                                   dacSP         dcct1         dcct2          dacRB
Final measured offsets:          0.000020     -0.000337     -0.000017       0.000055
Final measured gains:            1.000000      0.999999      1.000004       1.000023

                                   dacSP         dcct1         dcct2          dacRB
Final measured offsets mean: -0.000089     -0.000650     -0.000513      -0.000092
Final measured offsets stdev: 0.000442      0.000222      0.000313       0.000545
Final measured gains mean:    0.999995      0.999993      0.999993       1.000026
Final measured gains stdev:   0.000005      0.000006      0.000006       0.000008

Saving channel 2 calibration constants to qspi
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