Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0025
2025-10-08 09:53:32

Calibration Current standard: BNL PSC ATE S/N 001
Calibration Volt standard: HP 3458A-002 S/N 2823A 23647
Calibration Resistance standard: Fluke 742A-1 S/N 1063008
End Header

lab{1}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000730	1.007519	-1.026548	-1.031263	1.003730	0.020604
-50.002617	50.043761	-49.705288	-49.693966	50.142532	0.058053

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.006087	-0.032418	-0.037461	0.000000
Initial measured gains:	1.000701	0.993405	0.993078	1.002092
Gain corrections:	1.000701	1.006638	1.006970	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   1.002918
50.000000   50.139954

Measured offset: 0.000121
Measured gain: 1.002797
Gain correction: 0.997211

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000459	1.000442	-1.000726	-1.000610	1.001730	0.012096
-50.002670	50.002109	-50.001976	-50.001949	50.003143	0.075923

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000005	-0.000287	-0.000169	0.001293
Final measured gains:	0.999989	0.999980	0.999982	0.999995

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000108	-0.000159	-0.000107	0.001256
Final measured offsets stdev:	0.000271	0.000155	0.000134	0.000255
Final measured gains mean:	0.999979	0.999980	0.999982	1.000005
Final measured gains stdev:	0.000011	0.000007	0.000006	0.000008

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
    -1.000022     1.003253     -1.053479     -1.056021      0.999486      0.018850
  -100.004087   100.063020    -99.387878    -99.332825    100.397285      0.145260


                                      dacSP          dcct1          dcct2          dacRB
Initial measured offsets:          -0.002668      -0.060222      -0.063345       0.000000
Initial measured gains:             1.000563       0.993236       0.992654       1.003412
Gain corrections:                   1.000563       1.006810       1.007400       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   0.999669
100.000000   100.392189

Measured offset: -0.004296
Measured gain: 1.003965
Gain correction: 0.996051

Writing gain and offset constants for dacRB to PSC

Verification
        Itest        dacSP         dcct1         dcct2         dacRB           err
    -1.000042     1.000110     -0.999932     -1.000179      0.999892      0.032645
  -100.004304   100.003176   -100.003120   -100.003311    100.006523      0.142320


                                      dacSP          dcct1          dcct2          dacRB
Final measured offsets:            -0.000080       0.000099      -0.000149      -0.000254
Final measured gains:               0.999988       0.999989       0.999989       1.000036


                                      dacSP          dcct1          dcct2          dacRB
Final measured offsets mean: -0.000054      -0.000010      -0.000235      -0.000272
Final measured offsets stdev: 0.000117       0.000151       0.000104       0.000283
Final measured gains mean:    0.999982       0.999985       0.999985       1.000006
Final measured gains stdev:   0.000007       0.000006       0.000003       0.000018

Saving channel 2 calibration constants to qspi
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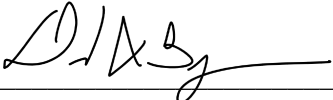
Test data reviewed by _____ Date 10/23/25