Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0011
2025-10-13 11:37:55

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
-1.000677	1.004880	-1.027581	-1.026593	1.001862	0.022852
-50.002911	50.023234	-49.650330	-49.669682	50.133110	0.080387

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003874	-0.034653	-0.033250	0.000000
Initial measured gains:	1.000329	0.992256	0.992671	1.002303
Gain corrections:	1.000329	1.007805	1.007383	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   1.001040
50.000000   50.130276

Measured offset: -0.001598
Measured gain: 1.002637
Gain correction: 0.997369

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000470	1.000434	-1.000613	-1.000675	1.000014	0.022790
-50.003020	50.002427	-50.002552	-50.002686	50.001904	0.066982

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000025	-0.000155	-0.000216	-0.000418
Final measured gains:	0.999989	0.999988	0.999989	0.999998

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000181	-0.000106	-0.000144	-0.000028
Final measured offsets stdev:	0.000482	0.000065	0.000090	0.000334
Final measured gains mean:	0.999981	0.999986	0.999987	0.999998
Final measured gains stdev:	0.000024	0.000011	0.000010	0.000010

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
   -1.000047     1.015708    -1.061175    -1.061773     1.006836     0.015571
 -100.004889   100.057659   -99.375153   -99.334175   100.252472     0.156416

                                   dacSP         dcct1         dcct2         dacRB
Initial measured offsets:       -0.015286     -0.068107     -0.069124      0.000000
Initial measured gains:          1.000375      0.993022      0.992602      1.002057
Gain corrections:                1.000375      1.007027      1.007453      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   1.006694
100.000000   100.248032

Measured offset: 0.004257
Measured gain: 1.002438
Gain correction: 0.997568

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -0.999856     1.000114    -1.000250    -1.000132     1.003669     0.021881
 -100.005095   100.003910  -100.004242  -100.004425   100.007133     0.137117


                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets:         -0.000273     -0.000407     -0.000286      0.003558
Final measured gains:            0.999985      0.999987      0.999990      0.999997


                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets mean: -0.000139     -0.000184     -0.000093      0.003451
Final measured offsets stdev: 0.000088      0.000115      0.000142      0.000133
Final measured gains mean:    0.999985      0.999987      0.999988      0.999991
Final measured gains stdev:   0.000007      0.000003      0.000003      0.000007

Saving channel 2 calibration constants to qspi




Test data reviewed by _____  Date_____


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