Report of Calibration
PSC 2CH-HSS-AR-ABend-QFA_S/N 0027
2025-12-22 13:14:36

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{4}Chan1
Burden resistor = 4.5000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.006626	1.031999	-1.221079	-1.266738	0.958045	0.018552
-400.084823	400.211051	-397.365967	-397.412354	400.555237	0.135500

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.025119	-0.221852	-0.267510	0.000000
Initial measured gains:	1.000253	0.992650	0.992652	1.001048
Gain corrections:	1.000253	1.007405	1.007403	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   0.949679
400.000000   400.466797

Measured offset: -0.051617
Measured gain: 1.001296
Gain correction: 0.998706

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.006626	1.006160	-1.006968	-1.006603	0.996298	0.012989
-400.088590	400.085303	-400.085144	-400.084106	400.079132	0.134906

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000459	-0.000352	0.000011	-0.009871
Final measured gains:	0.999993	0.999991	0.999989	1.000009

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000057	-0.000524	-0.000565	-0.008557
Final measured offsets stdev:	0.000486	0.000241	0.000527	0.000956
Final measured gains mean:	0.999986	0.999987	0.999985	1.000009
Final measured gains stdev:	0.000010	0.000004	0.000004	0.000005

Saving channel 1 calibration constants to qspi

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lab{4}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets
        Itest         dacSP         dcct1         dcct2         dacRB          err
    -1.004287      1.009787     -1.118249     -1.131734      1.001050      0.029129
  -200.031379    200.135602   -198.646927   -198.723175    200.445892      0.133057

                                    dacSP          dcct1          dcct2          dacRB
Initial measured offsets:        -0.005002      -0.121524      -0.134692       0.000000
Initial measured gains:           1.000496       0.992471       0.992787       1.001602
Gain corrections:                 1.000496       1.007586       1.007266       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    0.996501
200.000000    200.416092

Measured offset: -0.005607
Measured gain: 1.002108
Gain correction: 0.997896

Writing gain and offset constants for dacRB to PSC

Verification
        Itest         dacSP         dcct1         dcct2         dacRB          err
    -1.004629      1.003868     -1.004707     -1.005402      1.000806      0.015677
  -200.032372    200.030763   -200.030716   -200.031082    200.026001      0.130348


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets:          0.000757      -0.000086      -0.000784      -0.003053
Final measured gains:            0.999996       0.999991       0.999990       0.999991


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets mean:     0.000677      -0.000205      -0.000597      -0.002856
Final measured offsets stdev:    0.000551       0.000204       0.000275       0.000816
Final measured gains mean:       0.999994       0.999991       0.999990       0.999999
Final measured gains stdev:      0.000003       0.000003       0.000003       0.000013

Saving channel 2 calibration constants to qspi




Test data reviewed by _____    Date_____


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