Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0028
2025-10-07 16:37:55

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
-1.000454	1.004989	-1.027521	-1.024303	0.999557	0.026057
-50.002777	50.045035	-49.698605	-49.652393	50.078037	0.077778

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003764	-0.033830	-0.031490	0.000000
Initial measured gains:	1.000770	0.993240	0.992363	1.000784
Gain corrections:	1.000770	1.006806	1.007696	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   0.999171
50.000000   50.075161

Measured offset: -0.002379
Measured gain: 1.001551
Gain correction: 0.998452

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000209	1.000315	-1.000198	-1.000306	1.001161	0.038377
-50.002688	50.001888	-50.002018	-50.002022	50.002697	0.067268

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000124	-0.000002	-0.000112	0.000848
Final measured gains:	0.999982	0.999987	0.999984	0.999999

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000020	-0.000047	-0.000101	0.000824
Final measured offsets stdev:	0.000208	0.000159	0.000075	0.000113
Final measured gains mean:	0.999977	0.999980	0.999979	0.999986
Final measured gains stdev:	0.000012	0.000006	0.000008	0.000008

Saving channel 1 calibration constants to qspi

```
lab{1}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets
        Itest       dacSP        dcct1        dcct2        dacRB          err
    -0.999691     1.010352    -1.053822    -1.057514     1.001984     0.020374
  -100.005024   100.086419   -99.361107   -99.353119   100.281250     0.134385

                                    dacSP         dcct1         dcct2         dacRB
Initial measured offsets:        -0.009946     -0.061179     -0.064989      0.000000
Initial measured gains:           1.000714      0.992949      0.992831      1.002051
Gain corrections:                 1.000714      1.007101      1.007220      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    1.001984
100.000000    100.277328

Measured offset: -0.000798
Measured gain: 1.002781
Gain correction: 0.997226

Writing gain and offset constants for dacRB to PSC

Verification
        Itest       dacSP        dcct1        dcct2        dacRB          err
    -0.999843     0.999982    -1.000272    -1.000099     1.002065     0.020288
  -100.005063   100.004061  -100.003876  -100.004105   100.002647     0.133269


                                    dacSP         dcct1         dcct2         dacRB
Final measured offsets:          -0.000151     -0.000445     -0.000268      0.002118
Final measured gains:             0.999988      0.999984      0.999988      0.999965


                                    dacSP         dcct1         dcct2         dacRB
Final measured offsets mean: -0.000026     -0.000241     -0.000239      0.002387
Final measured offsets stdev: 0.000134      0.000310      0.000063      0.000373
Final measured gains mean:    0.999987      0.999982      0.999984      0.999980
Final measured gains stdev:   0.000006      0.000003      0.000004      0.000009

Saving channel 2 calibration constants to qspi
```

Test data reviewed by _____ Date 10/13/25