Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0008
2025-09-22 16:54:02

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
-0.999802	1.005424	-1.024627	-1.024801	0.998694	0.011593
-50.001914	50.004349	-49.631161	-49.647694	50.056957	0.073885

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005687	-0.032896	-0.032736	0.000000
Initial measured gains:	0.999935	0.991927	0.992261	1.001211
Gain corrections:	0.999935	1.008138	1.007799	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   0.998806
50.000000   50.054958

Measured offset: -0.002340
Measured gain: 1.001146
Gain correction: 0.998855

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999624	0.999729	-0.999757	-0.999774	1.000207	0.016602
-50.001746	50.001248	-50.001133	-50.001186	50.002022	0.078077

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000116	-0.000148	-0.000164	0.000472
Final measured gains:	0.999988	0.999985	0.999986	1.000006

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000150	-0.000170	-0.000121	0.000618
Final measured offsets stdev:	0.000162	0.000045	0.000058	0.000108
Final measured gains mean:	0.999985	0.999984	0.999986	0.999995
Final measured gains stdev:	0.000005	0.000003	0.000003	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
    -0.999426    1.001846   -1.059492   -1.058807    0.997131    0.001997
  -100.003612  100.089877  -99.356750  -99.299850  100.213127    0.065172

                                  dacSP        dcct1        dcct2        dacRB
Initial measured offsets:      -0.001573    -0.067203    -0.067085     0.000000
Initial measured gains:         1.000847     0.992860     0.992292     1.001291
Gain corrections:               1.000847     1.007192     1.007768     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    0.997557
100.000000    100.209953

Measured offset: -0.004588
Measured gain: 1.002145
Gain correction: 0.997859

Writing gain and offset constants for dacRB to PSC

Verification
       Itest       dacSP       dcct1       dcct2       dacRB         err
    -0.999306    0.999497   -0.999548   -0.999595    1.000420    0.005016
  -100.003674  100.003138 -100.002167 -100.002525  100.002647    0.091143

                                  dacSP        dcct1        dcct2        dacRB
Final measured offsets:        -0.000198    -0.000260    -0.000304     0.000937
Final measured gains:           0.999993     0.999982     0.999985     0.999986

                                  dacSP        dcct1        dcct2        dacRB
Final measured offsets mean:    0.000105    -0.000245    -0.000375     0.001397
Final measured offsets stdev:   0.000343     0.000230     0.000128     0.000452
Final measured gains mean:      0.999988     0.999981     0.999984     1.000000
Final measured gains stdev:     0.000007     0.000006     0.000004     0.000009

Saving channel 2 calibration constants to qspi




Test data reviewed by _____   Date_____


Page 2 of 2
```