

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0024
2025-12-17 11:55:25

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 = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.002680	1.003618	-1.028128	-1.027222	1.001679	0.042438
-50.006671	50.009780	-49.656342	-49.651802	50.076351	0.062618

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000894	-0.033137	-0.032306	0.000000
Initial measured gains:	1.000044	0.992332	0.992258	1.001398
Gain corrections:	1.000044	1.007728	1.007803	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	0.999100
50.000000	50.069618

Measured offset: -0.002339
Measured gain: 1.001439
Gain correction: 0.998563

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.002689	1.002534	-1.002810	-1.002861	1.003354	0.031144
-50.006904	50.006413	-50.006313	-50.006447	50.006554	0.059708

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000148	-0.000135	-0.000184	0.000834
Final measured gains:	0.999993	0.999985	0.999987	0.999986

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000319	-0.000103	-0.000144	0.000835
Final measured offsets stdev:	0.000481	0.000042	0.000051	0.000283
Final measured gains mean:	0.999975	0.999980	0.999981	0.999989
Final measured gains stdev:	0.000026	0.000011	0.000012	0.000009

Saving channel 1 calibration constants to qspi

lab{4}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.002047	0.999629	-1.054836	-1.055411	1.000786	0.013285
-100.012507	99.999649	-99.301186	-99.377808	100.233551	0.012689

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.002313	-0.060522	-0.060327	0.000000
Initial measured gains:	0.999895	0.992283	0.993051	1.002351
Gain corrections:	0.999895	1.007777	1.006998	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	0.999425
100.000000	100.221672

Measured offset: -0.002820

Measured gain: 1.002245

Gain correction: 0.997760

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.002059	1.000003	-1.001965	-1.001889	0.999040	-0.000086
-100.012705	100.000026	-100.011917	-100.012009	99.997894	-0.000791

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.001949	0.000087	0.000165	-0.000951
Final measured gains:	0.999893	0.999993	0.999995	0.999988

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.002292	-0.000055	-0.000043	0.000488
Final measured offsets stdev:	0.000230	0.000226	0.000200	0.001599
Final measured gains mean:	0.999906	0.999986	0.999988	1.000006
Final measured gains stdev:	0.000010	0.000007	0.000005	0.000012

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____

