

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0032
2025-09-08 15:11:15

Calibration Current standard: BNL PSC ATE S/N 001
Calibration Volt standard: HP 3458A-002 S/N 2823A 06900
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
-1.000516	0.994041	-1.023869	-1.024292	0.998471	0.011365
-50.002158	50.031299	-49.677799	-49.658463	50.121140	0.088307

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.007202	-0.030453	-0.031279	0.000000
Initial measured gains:	1.000727	0.992904	0.992501	1.001742
Gain corrections:	1.000727	1.007147	1.007556	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	0.998177
50.000000	50.119160

Measured offset: -0.004293
Measured gain: 1.002469
Gain correction: 0.997537

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000567	1.000289	-1.000301	-1.000288	0.999852	0.024257
-50.002228	50.001180	-50.001465	-50.001472	50.001270	0.078489

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000262	0.000256	0.000269	-0.000448
Final measured gains:	0.999984	0.999990	0.999990	1.000011

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000136	-0.000051	-0.000115	-0.000331
Final measured offsets stdev:	0.000100	0.000157	0.000205	0.000076
Final measured gains mean:	0.999981	0.999981	0.999979	1.000001
Final measured gains stdev:	0.000007	0.000009	0.000010	0.000009

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
-0.999850	1.018624	-1.063169	-1.058933	1.007628	0.002092
-100.003881	100.123377	-99.407257	-99.317444	100.241936	0.076208

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.017757	-0.069983	-0.066612	0.000000
Initial measured gains:	1.001017	0.993334	0.992470	1.001307
Gain corrections:	1.001017	1.006711	1.007587	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	1.007628
100.000000	100.238281

Measured offset: 0.005298
Measured gain: 1.002330
Gain correction: 0.997676

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000025	0.999999	-0.999772	-0.999920	1.004156	0.007247
-100.004203	100.002779	-100.003036	-100.003189	100.007156	0.062477

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000012	0.000244	0.000096	0.004155
Final measured gains:	0.999986	0.999991	0.999991	1.000002

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000107	-0.000085	-0.000162	0.004409
Final measured offsets stdev:	0.000152	0.000188	0.000135	0.000300
Final measured gains mean:	0.999987	0.999985	0.999985	0.999992
Final measured gains stdev:	0.000004	0.000005	0.000004	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____