

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0006
2025-12-12 13:54:54

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
-1.000987	1.006348	-1.024910	-1.022930	0.996034	0.021106
-50.007827	50.012126	-49.648369	-49.681149	50.062626	0.074022

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005383	-0.031754	-0.029064	0.000000
Initial measured gains:	0.999978	0.992177	0.992886	1.001241
Gain corrections:	0.999978	1.007885	1.007165	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	0.994979
50.000000	50.054703

Measured offset: -0.006240
Measured gain: 1.001219
Gain correction: 0.998783

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001265	1.001211	-1.001039	-1.001074	1.001080	0.028314
-50.008283	50.007381	-50.007610	-50.007362	50.007660	0.058418

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000037	0.000217	0.000176	-0.000139
Final measured gains:	0.999983	0.999991	0.999985	1.000008

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000332	-0.000035	-0.000049	0.000206
Final measured offsets stdev:	0.000702	0.000237	0.000245	0.000177
Final measured gains mean:	0.999981	0.999986	0.999981	0.999996
Final measured gains stdev:	0.000009	0.000005	0.000005	0.000011

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
-1.001361	1.018010	-1.057065	-1.058671	0.998613	0.020017
-100.015360	100.015211	-99.273178	-99.313965	100.186424	0.153735

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.016819	-0.063772	-0.064983	0.000000
Initial measured gains:	0.999830	0.991942	0.992337	1.001925
Gain corrections:	0.999830	1.008124	1.007722	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	0.996806
100.000000	100.171036

Measured offset: -0.004954
Measured gain: 1.001760
Gain correction: 0.998243

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001310	1.001479	-1.001760	-1.001614	1.001740	0.028347
-100.015465	100.014126	-100.014534	-100.014534	100.016151	0.135979

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000184	-0.000465	-0.000317	0.000243
Final measured gains:	0.999985	0.999986	0.999988	1.000018

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000019	-0.000188	-0.000199	0.000762
Final measured offsets stdev:	0.000155	0.000178	0.000109	0.000405
Final measured gains mean:	0.999981	0.999981	0.999984	1.000002
Final measured gains stdev:	0.000005	0.000004	0.000003	0.000013

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____