

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0016
2025-11-24 10:27:38

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{5}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000851	1.007397	-1.026758	-1.026130	1.003720	0.039079
-50.006320	50.059382	-49.713467	-49.685131	50.123627	0.061953

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005597	-0.032418	-0.032355	0.000000
Initial measured gains:	1.000949	0.993495	0.992930	1.001385
Gain corrections:	1.000949	1.006547	1.007120	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	1.002999
50.000000	50.117626

Measured offset: 0.000659
Measured gain: 1.002339
Gain correction: 0.997666

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000762	1.000609	-1.000995	-1.000880	1.001750	0.018409
-50.006582	50.005875	-50.006111	-50.006039	50.006088	0.042869

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000141	-0.000248	-0.000132	0.001160
Final measured gains:	0.999989	0.999986	0.999986	0.999981

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000112	-0.000178	-0.000139	0.001251
Final measured offsets stdev:	0.000172	0.000133	0.000107	0.000078
Final measured gains mean:	0.999990	0.999985	0.999986	0.999994
Final measured gains stdev:	0.000008	0.000002	0.000001	0.000009

Saving channel 1 calibration constants to qspi

lab{5}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000219	1.011547	-1.056998	-1.054724	1.003080	0.027135
-100.011574	100.026437	-99.325027	-99.328888	100.154503	0.139493

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.011293	-0.064289	-0.061953	0.000000
Initial measured gains:	1.000036	0.992493	0.992554	1.001379
Gain corrections:	1.000036	1.007564	1.007501	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	1.002877
100.000000	100.143181

Measured offset: 0.001460

Measured gain: 1.001417

Gain correction: 0.998585

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000187	1.000247	-1.000463	-1.000442	1.003039	0.024155
-100.011895	100.010666	-100.011009	-100.010765	100.015396	0.132954

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000073	-0.000288	-0.000269	0.002773
Final measured gains:	0.999987	0.999988	0.999986	1.000020

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000017	-0.000175	-0.000133	0.003002
Final measured offsets stdev:	0.000291	0.000143	0.000183	0.000271
Final measured gains mean:	0.999986	0.999987	0.999986	1.000007
Final measured gains stdev:	0.000004	0.000005	0.000002	0.000013

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____