

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0017
2025-12-03 20:30:35

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
-1.001287	1.007115	-1.025082	-1.025254	0.998867	0.028829
-50.006248	50.028806	-49.681232	-49.690876	50.119881	0.076444

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005487	-0.030922	-0.030901	0.000000
Initial measured gains:	1.000341	0.992882	0.993075	1.002026
Gain corrections:	1.000341	1.007169	1.006973	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	0.997831
50.000000	50.113476

Measured offset: -0.004529
Measured gain: 1.002360
Gain correction: 0.997645

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001104	1.001067	-1.001224	-1.001190	1.000440	0.026042
-50.006120	50.005770	-50.005726	-50.005764	50.005882	0.078668

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000031	-0.000130	-0.000095	-0.000641
Final measured gains:	0.999994	0.999990	0.999991	1.000015

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000215	-0.000182	-0.000188	-0.000502
Final measured offsets stdev:	0.000311	0.000129	0.000122	0.000431
Final measured gains mean:	0.999979	0.999982	0.999983	1.000008
Final measured gains stdev:	0.000013	0.000008	0.000008	0.000010

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
-1.000642	1.003754	-1.057785	-1.054247	1.001781	0.015951
-100.012236	100.141010	-99.414886	-99.331757	100.337425	0.124846

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.001843	-0.063758	-0.061024	0.000000
Initial measured gains:	1.001269	0.993390	0.992586	1.002001
Gain corrections:	1.001269	1.006654	1.007470	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	1.000968
100.000000	100.325996

Measured offset: -0.002315
Measured gain: 1.003283
Gain correction: 0.996728

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000755	1.000795	-1.000728	-1.000679	1.001659	0.026929
-100.012553	100.011190	-100.011162	-100.011864	100.011223	0.133029

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000053	0.000013	0.000070	0.000873
Final measured gains:	0.999986	0.999986	0.999994	0.999992

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000054	-0.000191	-0.000057	0.001493
Final measured offsets stdev:	0.000108	0.000192	0.000122	0.000350
Final measured gains mean:	0.999984	0.999979	0.999988	0.999977
Final measured gains stdev:	0.000008	0.000005	0.000004	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____