

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0010
2025-10-03 15:37:56

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{1}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999918	1.006782	-1.024950	-1.026563	0.999303	0.032625
-50.003049	50.037155	-49.681782	-49.659039	50.131668	0.067723

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.006309	-0.032098	-0.034208	0.000000
Initial measured gains:	1.000556	0.992933	0.992436	1.002080
Gain corrections:	1.000556	1.007117	1.007622	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	0.999375
50.000000	50.127831

Measured offset: -0.003247
Measured gain: 1.002622
Gain correction: 0.997385

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999852	0.999655	-0.999890	-1.000003	0.998806	0.018384
-50.003045	50.002624	-50.002785	-50.002895	50.002014	0.062780

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000192	-0.000044	-0.000157	-0.000854
Final measured gains:	0.999995	0.999994	0.999994	1.000005

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000086	-0.000094	-0.000144	0.000467
Final measured offsets stdev:	0.000217	0.000126	0.000113	0.000667
Final measured gains mean:	0.999986	0.999988	0.999988	0.999995
Final measured gains stdev:	0.000008	0.000005	0.000005	0.000007

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
-0.999506	1.001949	-1.049523	-1.056644	0.991953	0.020098
-100.005799	100.010961	-99.258835	-99.352402	100.286629	0.153015

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002415	-0.058062	-0.064311	0.000000
Initial measured gains:	1.000027	0.991950	0.992823	1.002885
Gain corrections:	1.000027	1.008115	1.007229	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	0.992806
100.000000	100.280151

Measured offset: -0.010097
Measured gain: 1.002902
Gain correction: 0.997106

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999702	0.999404	-0.999974	-0.999801	0.998613	0.012463
-100.005796	100.005095	-100.006241	-100.005219	100.004417	0.128605

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000294	-0.000270	-0.000106	-0.000792
Final measured gains:	0.999996	1.000002	0.999993	1.000001

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000050	-0.000209	-0.000233	0.001298
Final measured offsets stdev:	0.000212	0.000125	0.000066	0.001488
Final measured gains mean:	0.999992	0.999993	0.999989	0.999993
Final measured gains stdev:	0.000002	0.000005	0.000003	0.000008

Saving channel 2 calibration constants to qspi

Test data reviewed by



Date 10/7/25