

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0012
2026-01-06 12:17:57

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
-1.001054	1.006885	-1.025019	-1.023581	1.000684	0.031630
-50.007339	50.031420	-49.673630	-49.661427	50.084614	0.056147

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005458	-0.031271	-0.030052	0.000000
Initial measured gains:	1.000372	0.992701	0.992482	1.001212
Gain corrections:	1.000372	1.007352	1.007575	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	0.999770
50.000000	50.076656

Measured offset: -0.001799
Measured gain: 1.001569
Gain correction: 0.998433

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000972	1.001043	-1.000924	-1.001145	1.002420	0.038681
-50.007449	50.007107	-50.007229	-50.007362	50.007366	0.043657

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000080	0.000044	-0.000179	0.001400
Final measured gains:	0.999992	0.999996	0.999995	0.999977

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000272	-0.000073	-0.000141	0.000422
Final measured offsets stdev:	0.000556	0.000181	0.000148	0.000599
Final measured gains mean:	0.999989	0.999990	0.999991	0.999985
Final measured gains stdev:	0.000008	0.000007	0.000005	0.000007

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
-1.000154	1.009413	-1.053095	-1.056901	1.002349	0.024451
-100.015014	100.008469	-99.313667	-99.350937	100.286583	0.135869

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.009419	-0.060560	-0.064028	0.000000
Initial measured gains:	0.999840	0.992382	0.992720	1.002881
Gain corrections:	0.999840	1.007676	1.007333	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	1.001902
100.000000	100.270851

Measured offset: -0.000814
Measured gain: 1.002717
Gain correction: 0.997291

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000116	1.000165	-1.000322	-1.000339	1.002572	0.024368
-100.015277	100.014906	-100.015099	-100.014977	100.015480	0.123085

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000054	-0.000210	-0.000228	0.002425
Final measured gains:	0.999996	0.999996	0.999995	0.999981

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000097	-0.000242	-0.000216	0.002409
Final measured offsets stdev:	0.000169	0.000232	0.000152	0.000127
Final measured gains mean:	0.999999	0.999998	0.999997	0.999991
Final measured gains stdev:	0.000002	0.000002	0.000002	0.000016

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____