

Report of Calibration  
PSC 2CH-HSS-AR-QD-QF\_S/N 0027  
2025-12-17 14:17:50

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	dcctl1	dcct2	dacRB	err
-1.001825	1.004796	-1.021328	-1.026619	0.995710	0.039898
-50.007931	50.006018	-49.651100	-49.632843	50.045750	0.110002

	dacSP	dcctl1	dcct2	dacRB
Initial measured offsets:	-0.003071	-0.027197	-0.032969	0.000000
Initial measured gains:	0.999900	0.992321	0.991840	1.000996
Gain corrections:	0.999900	1.007739	1.008227	1.000000

Writing gain and offset corrections for dacSP, dcctl1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.994197
50.000000	50.037495

Measured offset: -0.006687

Measured gain: 1.000884

Gain correction: 0.999117

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.001993	1.001656	-1.002026	-1.002029	1.000765	0.018671
-50.008313	50.006785	-50.007282	-50.007320	50.004982	0.065816

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets:	0.000312	-0.000055	-0.000057	-0.000873
Final measured gains:	0.999976	0.999978	0.999979	0.999981

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets mean:	0.000211	-0.000028	-0.000086	-0.000584
Final measured offsets stdev:	0.000231	0.000029	0.000077	0.000352
Final measured gains mean:	0.999995	0.999994	0.999993	0.999986
Final measured gains stdev:	0.000011	0.000008	0.000008	0.000014

Saving channel 1 calibration constants to qspi

Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcctl1	dcctl2	dacRB	err
-1.000851	1.003507	-1.053647	-1.060594	1.000359	0.020920
-100.013810	100.050540	-99.307693	-99.344666	100.197853	0.142532

	dacSP	dcctl1	dcctl2	dacRB
Initial measured offsets:	-0.002311	-0.060467	-0.067110	0.000000
Initial measured gains:	1.000344	0.992335	0.992638	1.001519
Gain corrections:	1.000344	1.007724	1.007416	1.000000

Writing gain and offset corrections for dacSP, dcctl1, and dcctl2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.999040
100.000000	100.184692

Measured offset: -0.002836

Measured gain: 1.001875

Gain correction: 0.998128

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcctl2	dacRB	err
-1.000945	1.001108	-1.001123	-1.001121	1.000359	0.018800
-100.014255	100.013526	-100.013451	-100.013855	100.011375	0.139559

	dacSP	dcctl1	dcctl2	dacRB
Final measured offsets:	-0.000172	-0.000188	-0.000181	-0.000735
Final measured gains:	0.999991	0.999990	0.999994	0.999986

	dacSP	dcctl1	dcctl2	dacRB
Final measured offsets mean:	-0.000022	-0.000233	-0.000090	-0.000225
Final measured offsets stdev:	0.000213	0.000211	0.000247	0.000372
Final measured gains mean:	0.999992	0.999991	0.999993	0.999986
Final measured gains stdev:	0.000004	0.000003	0.000001	0.000007

Saving channel 2 calibration constants to qspi

Test data reviewed by \_\_\_\_\_ Date\_\_\_\_\_

