

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0019
2025-09-26 16:48:57

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{1}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999684	1.002157	-1.026384	-1.024498	1.000836	0.008951
-50.001654	50.047704	-49.687340	-49.677059	50.199028	0.077774

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.001583	-0.033657	-0.031942	0.000000
Initial measured gains:	1.000889	0.993041	0.992870	1.003112
Gain corrections:	1.000889	1.007008	1.007182	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	1.001425
50.000000	50.197292

Measured offset: -0.002572
Measured gain: 1.003997
Gain correction: 0.996019

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999466	0.999406	-0.999376	-0.999458	0.998826	0.016019
-50.001488	50.000953	-50.001122	-50.000961	50.001812	0.065733

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000050	0.000084	-0.000003	-0.000609
Final measured gains:	0.999990	0.999994	0.999989	1.000029

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000027	-0.000020	-0.000018	-0.000481
Final measured offsets stdev:	0.000240	0.000220	0.000192	0.000100
Final measured gains mean:	0.999985	0.999987	0.999985	1.000011
Final measured gains stdev:	0.000010	0.000009	0.000006	0.000012

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
-0.999372	1.002871	-1.055741	-1.062516	1.002572	0.000797
-100.003368	100.045227	-99.326996	-99.313301	100.374344	0.085564

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003112	-0.063765	-0.070747	0.000000
Initial measured gains:	1.000387	0.992599	0.992392	1.003326
Gain corrections:	1.000387	1.007456	1.007666	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	1.003202
100.000000	100.371643

Measured offset: -0.000520
Measured gain: 1.003722
Gain correction: 0.996292

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999263	0.999697	-0.999357	-0.999352	0.999263	0.011796
-100.003557	100.002883	-100.003113	-100.002930	100.004395	0.080773

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000445	-0.000099	-0.000096	-0.000454
Final measured gains:	0.999989	0.999995	0.999993	1.000020

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000098	-0.000144	-0.000109	0.000041
Final measured offsets stdev:	0.000288	0.000080	0.000067	0.000292
Final measured gains mean:	0.999985	0.999988	0.999989	1.000006
Final measured gains stdev:	0.000003	0.000003	0.000002	0.000010

Saving channel 2 calibration constants to qspi

Test data reviewed by



Date 9/30/25