

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0023
2025-10-03 15:18:48

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
-0.999883	1.008335	-1.026914	-1.028739	0.999040	0.023345
-50.003285	50.033856	-49.684608	-49.691082	50.029861	0.075278

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.008001	-0.034086	-0.035816	0.000000
Initial measured gains:	1.000451	0.992945	0.993040	1.000108
Gain corrections:	1.000451	1.007105	1.007009	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	0.999395
50.000000	50.026463

Measured offset: -0.001158

Measured gain: 1.000552

Gain correction: 0.999448

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999713	0.999936	-0.999984	-1.000020	0.999263	0.031031
-50.002750	50.002861	-50.002785	-50.002838	50.002258	0.081687

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000225	-0.000275	-0.000311	-0.000675
Final measured gains:	0.999998	0.999995	0.999996	1.000001

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000087	0.000003	-0.000018	-0.000631
Final measured offsets stdev:	0.000276	0.000395	0.000322	0.000058
Final measured gains mean:	0.999985	0.999984	0.999984	1.000001
Final measured gains stdev:	0.000017	0.000012	0.000013	0.000011

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
-0.999533	1.008790	-1.059778	-1.056562	0.999770	0.018625
-100.005909	100.098640	-99.402542	-99.323112	100.259621	0.155800

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.008414	-0.066944	-0.064498	0.000000
Initial measured gains:	1.000843	0.993297	0.992527	1.001716
Gain corrections:	1.000843	1.006748	1.007529	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 1.000116
100.000000 100.253098

Measured offset: -0.002440

Measured gain: 1.002555

Gain correction: 0.997451

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999528	0.999679	-0.999888	-0.999759	0.999831	0.028054
-100.006410	100.004848	-100.005219	-100.005623	100.004044	0.148913

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000168	-0.000376	-0.000241	0.000162
Final measured gains:	0.999983	0.999984	0.999990	0.999990

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000012	-0.000240	-0.000313	0.000324
Final measured offsets stdev:	0.000114	0.000084	0.000054	0.000317
Final measured gains mean:	0.999982	0.999984	0.999987	0.999994
Final measured gains stdev:	0.000009	0.000007	0.000005	0.000012

Saving channel 2 calibration constants to qspi

Test data reviewed by _____

Date 10/7/25