

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0022
2025-09-26 16:59:49

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
-1.000172	1.009949	-1.029918	-1.028938	1.003476	0.021348
-50.001961	50.031486	-49.675495	-49.693142	50.123699	0.076018

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.009374	-0.037017	-0.035656	0.000000
Initial measured gains:	1.000403	0.992731	0.993111	1.002013
Gain corrections:	1.000403	1.007323	1.006937	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	1.003334
50.000000	50.121758

Measured offset: 0.000917

Measured gain: 1.002417

Gain correction: 0.997589

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000234	0.999985	-1.000245	-1.000221	1.001618	0.006794
-50.002003	50.001194	-50.001312	-50.001350	50.002228	0.059959

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000238	-0.000025	0.000000	0.001646
Final measured gains:	0.999989	0.999986	0.999987	0.999988

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000213	-0.000070	0.000051	0.001750
Final measured offsets stdev:	0.000196	0.000069	0.000097	0.000070
Final measured gains mean:	0.999984	0.999978	0.999981	0.999986
Final measured gains stdev:	0.000006	0.000011	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
-0.999318	1.009541	-1.053124	-1.061875	0.996867	-0.000300
-100.003785	100.079073	-99.382736	-99.316200	100.238441	0.075298

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.009566	-0.060618	-0.070130	0.000000
Initial measured gains:	1.000657	0.993184	0.992423	1.001737
Gain corrections:	1.000657	1.006863	1.007635	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	0.997781
100.000000	100.234932

Measured offset: -0.004615

Measured gain: 1.002395

Gain correction: 0.997610

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999474	0.999234	-0.999517	-0.999595	1.000237	-0.002838
-100.003673	100.003132	-100.003441	-100.002823	100.003830	0.064133

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000237	-0.000046	-0.000131	0.001006
Final measured gains:	0.999997	0.999997	0.999990	0.999997

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000056	-0.000089	-0.000136	0.001055
Final measured offsets stdev:	0.000134	0.000214	0.000088	0.000150
Final measured gains mean:	0.999986	0.999987	0.999987	0.999981
Final measured gains stdev:	0.000008	0.000007	0.000003	0.000009

Saving channel 2 calibration constants to qspi

Test data reviewed by

Date 9/30/25