

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0013
2025-10-23 15:20:28

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
-1.000737	0.998287	-1.027861	-1.027947	1.001070	0.033999
-50.003243	50.045430	-49.685036	-49.672394	50.091537	0.078830

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.003361	-0.034177	-0.034522	0.000000
Initial measured gains:	1.000911	0.992953	0.992693	1.000883
Gain corrections:	1.000911	1.007097	1.007361	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	1.000440
50.000000	50.088013

Measured offset: -0.001347
Measured gain: 1.001787
Gain correction: 0.998216

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000509	1.000650	-1.000738	-1.000769	0.999364	0.039799
-50.003120	50.002245	-50.002632	-50.002781	50.002411	0.064653

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000162	-0.000244	-0.000273	-0.001315
Final measured gains:	0.999979	0.999985	0.999988	1.000030

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000089	-0.000110	-0.000124	-0.001082
Final measured offsets stdev:	0.000118	0.000098	0.000090	0.000159
Final measured gains mean:	0.999976	0.999981	0.999983	1.000011
Final measured gains stdev:	0.000008	0.000006	0.000007	0.000015

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
-1.000291	0.987516	-1.063697	-1.059694	0.998735	0.018733
-100.005447	100.040790	-99.309769	-99.342682	100.257515	0.135955

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.013260	-0.071075	-0.066700	0.000000
Initial measured gains:	1.000486	0.992333	0.992706	1.002075
Gain corrections:	1.000486	1.007726	1.007348	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	0.998715
100.000000	100.252190

Measured offset: -0.003846
Measured gain: 1.002560
Gain correction: 0.997446

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000027	0.999914	-1.000363	-1.000454	1.002410	0.026430
-100.005695	100.004414	-100.004677	-100.004570	100.004478	0.144853

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000102	-0.000350	-0.000443	0.002521
Final measured gains:	0.999988	0.999986	0.999984	0.999975

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000185	-0.000200	-0.000260	0.001762
Final measured offsets stdev:	0.000080	0.000180	0.000138	0.001173
Final measured gains mean:	0.999980	0.999985	0.999984	0.999995
Final measured gains stdev:	0.000009	0.000005	0.000004	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by



Date 11/12/25