

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0005
2025-12-30 23:15:15

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	dcct1	dcct2	dacRB	err
-1.000925	0.998360	-1.022774	-1.024092	0.997943	0.021329
-50.007731	50.007816	-49.663044	-49.636936	50.077862	0.045007

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.002619	-0.029336	-0.031214	0.000000
Initial measured gains:	1.000054	0.992521	0.991961	1.001438
Gain corrections:	1.000054	1.007536	1.008104	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	0.997405
50.000000	50.069839

Measured offset: -0.004073
Measured gain: 1.001478
Gain correction: 0.998524

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000953	1.000631	-1.000926	-1.000793	1.001212	0.023188
-50.007625	50.007250	-50.007603	-50.007610	50.007740	0.024502

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000320	0.000027	0.000162	0.000583
Final measured gains:	0.999999	1.000000	1.000003	0.999998

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000139	-0.000078	-0.000017	0.000555
Final measured offsets stdev:	0.000257	0.000134	0.000142	0.000252
Final measured gains mean:	0.999995	0.999992	0.999992	0.999988
Final measured gains stdev:	0.000007	0.000006	0.000007	0.000011

Saving channel 1 calibration constants to qspi

Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000127	1.000891	-1.052265	-1.064934	0.995994	0.022364
-100.015490	100.019492	-99.325302	-99.259254	100.174423	0.140496

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000732	-0.059636	-0.073100	0.000000
Initial measured gains:	1.000033	0.992503	0.991708	1.001614
Gain corrections:	1.000033	1.007554	1.008361	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	0.996034
100.000000	100.160576

Measured offset: -0.005628

Measured gain: 1.001662

Gain correction: 0.998341

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000064	0.999979	-1.000661	-1.000627	0.999466	0.012874
-100.015548	100.014806	-100.014854	-100.015045	100.012863	0.132693

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000079	-0.000610	-0.000574	-0.000498
Final measured gains:	0.999993	0.999987	0.999989	0.999986

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000064	-0.000291	-0.000237	-0.000473
Final measured offsets stdev:	0.000116	0.000199	0.000190	0.000127
Final measured gains mean:	0.999987	0.999988	0.999990	1.000001
Final measured gains stdev:	0.000007	0.000006	0.000004	0.000010

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date _____

