

Report of Calibration
PSC 2CH-HSS-AR-ABend-QFA_S/N 001
2025-09-03 10:05:36

Calibration Current standard: BNL PSC ATE S/N 001
Calibration Volt standard: HP 3458A-002 S/N 2823A 06900
Calibration Resistance standard: Fluke 742A-1 S/N 1063008
End Header

lab{1}Chan1
Burden resistor = 4.5000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001618	1.019201	-1.249733	-1.217378	0.979568	0.008704
-400.045645	400.376900	-397.586426	-397.422699	400.629730	0.071095

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.016795	-0.254910	-0.222885	0.000000
Initial measured gains:	1.000786	0.993215	0.992886	1.000732
Gain corrections:	1.000786	1.006831	1.007165	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	0.976156
400.000000	400.581146

Measured offset: -0.025360
Measured gain: 1.001516
Gain correction: 0.998486

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001379	1.001682	-1.003207	-1.003232	0.991588	0.000572
-400.047327	400.047234	-400.045166	-400.046387	400.048859	0.079064

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000304	-0.001838	-0.001860	-0.010124
Final measured gains:	0.999999	0.999990	0.999993	1.000029

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000405	-0.000750	-0.000892	-0.010226
Final measured offsets stdev:	0.000451	0.000784	0.000652	0.000406
Final measured gains mean:	0.999991	0.999989	0.999988	1.000022
Final measured gains stdev:	0.000006	0.000002	0.000004	0.000008

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
-1.000974	1.016431	-1.125320	-1.132729	1.001415	0.015502
-200.007125	200.090503	-198.667542	-198.643311	200.222153	0.068277

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.015115	-0.131710	-0.139277	0.000000
Initial measured gains:	1.000341	0.992644	0.992485	1.000737
Gain corrections:	1.000341	1.007411	1.007572	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	0.999750
200.000000	200.214188

Measured offset: -0.001327
Measured gain: 1.001078
Gain correction: 0.998924

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001086	1.001442	-1.001481	-1.001354	1.001253	0.014718
-200.007492	200.007024	-200.006348	-200.006287	200.011139	0.077166

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000361	-0.000403	-0.000276	-0.000211
Final measured gains:	0.999996	0.999992	0.999993	1.000022

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000025	-0.000391	-0.000201	-0.000330
Final measured offsets stdev:	0.000417	0.000138	0.000114	0.000692
Final measured gains mean:	0.999994	0.999990	0.999993	1.000016
Final measured gains stdev:	0.000002	0.000002	0.000002	0.000008

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____