

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0026
2025-12-12 15:14:11

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
-1.002562	1.004718	-1.028376	-1.029289	1.003679	0.026459
-50.007428	50.031265	-49.678349	-49.688839	50.082005	0.075556

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.001712	-0.033074	-0.033792	0.000000
Initial measured gains:	1.000442	0.992758	0.992953	1.001056
Gain corrections:	1.000442	1.007295	1.007097	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	1.000999
50.000000	50.074165

Measured offset: -0.000494
Measured gain: 1.001493
Gain correction: 0.998509

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.002321	1.002367	-1.002166	-1.002267	1.003679	0.050296
-50.007696	50.006889	-50.007004	-50.007114	50.006653	0.065119

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000064	0.000144	0.000043	0.001343
Final measured gains:	0.999983	0.999989	0.999989	0.999968

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000176	-0.000011	-0.000059	0.001329
Final measured offsets stdev:	0.000108	0.000119	0.000098	0.000128
Final measured gains mean:	0.999977	0.999981	0.999981	0.999978
Final measured gains stdev:	0.000010	0.000007	0.000007	0.000008

Saving channel 1 calibration constants to qspi

lab{4}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001758	1.005235	-1.058292	-1.060638	0.996542	0.015670
-100.013814	100.086840	-99.350693	-99.348030	100.143135	0.164864

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002774	-0.063815	-0.066212	0.000000
Initial measured gains:	1.000702	0.992732	0.992681	1.000656
Gain corrections:	1.000702	1.007322	1.007373	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	0.994451
100.000000	100.130203

Measured offset: -0.006921

Measured gain: 1.001371

Gain correction: 0.998631

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001575	1.001900	-1.001611	-1.001557	1.003425	0.035766
-100.014090	100.012597	-100.013039	-100.013199	100.013283	0.142822

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000343	-0.000046	0.000009	0.001533
Final measured gains:	0.999982	0.999989	0.999991	0.999992

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000053	-0.000164	-0.000225	-0.000833
Final measured offsets stdev:	0.000230	0.000179	0.000134	0.001189
Final measured gains mean:	0.999977	0.999981	0.999985	0.999991
Final measured gains stdev:	0.000011	0.000006	0.000005	0.000010

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____