

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0024
2025-12-30 23:34:07

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
-1.001425	1.001980	-1.026530	-1.025883	1.000024	0.024202
-50.007539	50.003595	-49.650677	-49.647282	50.068306	0.075748

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000647	-0.032910	-0.032320	0.000000
Initial measured gains:	0.999908	0.992206	0.992150	1.001360
Gain corrections:	0.999908	1.007856	1.007912	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	0.998664
50.000000	50.060646

Measured offset: -0.002601

Measured gain: 1.001265

Gain correction: 0.998737

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001232	1.001190	-1.001204	-1.001146	1.001476	0.043194
-50.007677	50.007406	-50.007557	-50.007523	50.007668	0.061273

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000037	0.000026	0.000084	0.000287
Final measured gains:	0.999995	0.999998	0.999999	0.999999

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000006	0.000004	-0.000025	0.000081
Final measured offsets stdev:	0.000168	0.000069	0.000105	0.000231
Final measured gains mean:	0.999991	0.999991	0.999992	0.999994
Final measured gains stdev:	0.000010	0.000006	0.000006	0.000006

Saving channel 1 calibration constants to qspi

Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.000476	0.998123	-1.053072	-1.053337	0.998552	0.067691
-100.015301	99.998130	-99.292664	-99.366585	100.225914	0.068361

	dacSP	dcctl1	dcct2	dacRB
Initial measured offsets:	0.002204	-0.060429	-0.059950	0.000000
Initial measured gains:	0.999850	0.992171	0.992914	1.002297
Gain corrections:	0.999850	1.007891	1.007136	1.000000

Writing gain and offset corrections for dacSP, dcctl1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.998918
100.000000	100.212433

Measured offset: -0.003239

Measured gain: 1.002157

Gain correction: 0.997848

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.000229	1.000065	-1.000127	-1.000432	0.998552	-0.002235
-100.015603	100.000209	-100.014481	-100.014671	99.998611	-0.006688

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets:	0.000010	0.000092	-0.000214	-0.001512
Final measured gains:	0.999846	0.999990	0.999989	0.999999

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets mean:	0.000556	-0.000008	-0.000148	0.000706
Final measured offsets stdev:	0.000364	0.000061	0.000128	0.001331
Final measured gains mean:	0.999861	0.999988	0.999987	1.000002
Final measured gains stdev:	0.000011	0.000005	0.000004	0.000007

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____

