Report of Calibration
PSC 4CH-MSS-BTA-Q12-Q8-Q7-Q11_S/N 0008
2026-01-20 14:33:53

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{2}Chan1
Burden resistor = 8.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.003208	1.046700	-1.138721	-1.133765	1.020329	-0.008077
-224.043816	223.998433	-222.461029	-222.520905	224.694214	0.016439

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.043891	-0.143242	-0.137993	0.000000
Initial measured gains:	0.999602	0.992296	0.992587	1.003239
Gain corrections:	0.999602	1.007764	1.007469	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	1.018547
225.000000	225.654922

Measured offset: 0.015706
Measured gain: 1.002841
Gain correction: 0.997167

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.003361	1.002513	-1.005435	-1.004339	1.005573	-0.003099
-224.044625	224.042975	-224.043274	-224.044006	224.046677	0.059495

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000845	-0.002090	-0.000985	0.003057
Final measured gains:	0.999996	0.999985	0.999993	1.000003

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000289	-0.002281	-0.001173	0.003883
Final measured offsets stdev:	0.000731	0.000185	0.000217	0.002252
Final measured gains mean:	0.999994	0.999988	0.999995	1.000006
Final measured gains stdev:	0.000002	0.000005	0.000002	0.000003

Saving channel 1 calibration constants to qspi

Burden resistor = 8.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001939	1.031255	-1.136848	-1.128134	0.989263	-0.004079
-224.045675	224.163776	-222.636841	-222.429840	224.730804	0.042282

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.028917	-0.141844	-0.134021	0.000000
Initial measured gains:	1.000398	0.993079	0.992190	1.002729
Gain corrections:	1.000398	1.006969	1.007872	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	0.989172
225.000000	225.687988

Measured offset: -0.013948
Measured gain: 1.003120
Gain correction: 0.996890

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001995	1.000776	-1.003094	-1.003962	0.997121	0.000473
-224.046385	224.044189	-224.045853	-224.046417	224.044800	0.022874

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.001215	-0.001106	-0.001976	-0.003674
Final measured gains:	0.999996	0.999993	0.999991	1.000019

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.001037	-0.001434	-0.002739	-0.002545
Final measured offsets stdev:	0.000521	0.000796	0.000844	0.002292
Final measured gains mean:	0.999993	0.999992	0.999987	1.000005
Final measured gains stdev:	0.000003	0.000002	0.000003	0.000014

Saving channel 2 calibration constants to qspi

Burden resistor = 6.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001346	1.020465	-1.172140	-1.164282	1.016765	0.002385
-300.080853	299.803428	-297.755249	-297.958282	300.714233	0.082463

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.020112	-0.179152	-0.170588	0.000000
Initial measured gains:	0.999008	0.991653	0.992358	1.003061
Gain corrections:	0.999008	1.008417	1.007701	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	1.014633
300.000000	300.629333

Measured offset: 0.012577
Measured gain: 1.002056
Gain correction: 0.997948

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001750	1.002658	-1.004354	-1.004415	1.007019	0.000040
-300.081808	300.081978	-300.080414	-300.080353	300.092651	0.099524

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000910	-0.002617	-0.002678	0.004340
Final measured gains:	0.999998	0.999987	0.999986	1.000021

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000397	-0.002591	-0.002755	0.005237
Final measured offsets stdev:	0.001223	0.000289	0.001319	0.001386
Final measured gains mean:	0.999989	0.999984	0.999984	1.000009
Final measured gains stdev:	0.000006	0.000003	0.000003	0.000009

Saving channel 3 calibration constants to qspi

Burden resistor = 6.7900

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000747	1.026468	-1.148005	-1.165042	0.992878	0.012795
-266.070287	266.053020	-264.260895	-264.315033	266.439850	0.052114

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.025883	-0.154646	-0.171542	0.000000
Initial measured gains:	0.999838	0.992618	0.992758	1.001586
Gain corrections:	0.999838	1.007437	1.007295	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	0.991102
265.000000	265.369110

Measured offset: -0.010330
Measured gain: 1.001432
Gain correction: 0.998570

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001474	1.001991	-1.004639	-1.003523	1.002513	0.012114
-266.070213	266.069570	-266.070312	-266.070374	266.069061	0.076296

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000521	-0.003177	-0.002056	0.000527
Final measured gains:	0.999996	0.999988	0.999993	0.999996

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000549	-0.003142	-0.002279	0.000307
Final measured offsets stdev:	0.000202	0.000184	0.000227	0.000474
Final measured gains mean:	0.999991	0.999989	0.999988	1.000009
Final measured gains stdev:	0.000004	0.000003	0.000004	0.000009

Saving channel 4 calibration constants to qspi

Test data reviewed by _____ Date_____