

Report of Calibration  
PSC 4CH-MSS-AR-SK\_S/N 0020  
2026-01-05 11:59:07

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{2}Chan1  
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001580	1.005762	-1.012339	-1.010171	1.003232	0.039497
-27.001676	27.008888	-26.828354	-26.805317	27.056507	0.059443

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.004065	-0.017850	-0.016486	0.000000
Initial measured gains:	1.000117	0.992920	0.992117	1.001929
Gain corrections:	1.000117	1.007130	1.007945	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	1.001411
27.000000	27.054787

Measured offset: -0.000641

Measured gain: 1.002053

Gain correction: 0.997951

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001499	1.001525	-1.001705	-1.001591	1.001115	0.021428
-27.001706	27.001285	-27.001808	-27.001423	27.001438	0.030470

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000044	-0.000210	-0.000107	-0.000432
Final measured gains:	0.999983	0.999996	0.999986	1.000022

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000013	-0.000135	-0.000212	-0.000093
Final measured offsets stdev:	0.000170	0.000113	0.000131	0.000199
Final measured gains mean:	0.999987	0.999990	0.999988	1.000011
Final measured gains stdev:	0.000004	0.000007	0.000008	0.000012

Saving channel 1 calibration constants to qspi

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lab{2}Chan2
Burden resistor = 33.3333
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Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000471	1.005517	-1.008150	-1.010443	0.997113	0.040192
-27.001030	27.001996	-26.806938	-26.808689	27.055176	0.045182

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005203	-0.015444	-0.017758	0.000000
Initial measured gains:	0.999843	0.992240	0.992219	1.002369
Gain corrections:	0.999843	1.007821	1.007842	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	0.996549
27.000000	27.053848

Measured offset: -0.005655

Measured gain: 1.002204

Gain correction: 0.997801

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000277	0.999914	-1.000378	-1.000552	1.000019	-0.021092
-27.001084	27.000940	-27.001013	-27.000935	27.000908	0.045168

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000372	-0.000107	-0.000291	0.000111
Final measured gains:	1.000008	0.999993	0.999984	0.999995

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000018	-0.000080	-0.000181	0.000115
Final measured offsets stdev:	0.000184	0.000134	0.000141	0.000087
Final measured gains mean:	0.999987	0.999989	0.999987	1.000016
Final measured gains stdev:	0.000011	0.000006	0.000004	0.000013

Saving channel 2 calibration constants to qspi

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lab{2}Chan3
Burden resistor = 33.3333
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Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000393	1.003739	-1.011599	-1.009532	1.004569	0.049106
-27.001103	27.009176	-26.826012	-26.821135	27.061733	0.038286

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003164	-0.018374	-0.016415	0.000000
Initial measured gains:	1.000182	0.992835	0.992727	1.001989
Gain corrections:	1.000182	1.007217	1.007326	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	1.004174
27.000000	27.060806

Measured offset: 0.001996

Measured gain: 1.002178

Gain correction: 0.997827

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000385	1.000342	-1.000693	-1.000700	1.000644	0.005290
-27.001310	27.000580	-27.000910	-27.000910	27.001078	0.030857

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000016	-0.000335	-0.000343	0.000294
Final measured gains:	0.999974	0.999973	0.999972	1.000008

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000032	-0.000344	-0.000178	0.000383
Final measured offsets stdev:	0.000077	0.000021	0.000088	0.000096
Final measured gains mean:	0.999996	0.999989	0.999992	1.000003
Final measured gains stdev:	0.000012	0.000009	0.000010	0.000012

Saving channel 3 calibration constants to qspi

lab{2}Chan4  
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000450	1.003186	-1.009409	-1.010260	1.000863	0.011829
-27.001121	27.005407	-26.809425	-26.815514	27.076326	0.009592

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002676	-0.016679	-0.017329	0.000000
Initial measured gains:	1.000060	0.992283	0.992484	1.002817
Gain corrections:	1.000060	1.007777	1.007573	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	1.000649
27.000000	27.075405

Measured offset: -0.002226

Measured gain: 1.002875

Gain correction: 0.997133

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000316	1.000382	-1.000553	-1.000518	0.999937	0.027976
-27.001187	27.001832	-27.001644	-27.001488	27.002373	0.046436

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000044	-0.000229	-0.000198	-0.000483
Final measured gains:	1.000022	1.000008	1.000004	1.000038

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000063	-0.000124	-0.000160	-0.000304
Final measured offsets stdev:	0.000131	0.000099	0.000095	0.000135
Final measured gains mean:	0.999994	0.999990	0.999990	1.000028
Final measured gains stdev:	0.000016	0.000015	0.000011	0.000010

Saving channel 4 calibration constants to qspi

Test data reviewed by \_\_\_\_\_ Date\_\_\_\_\_