

Report of Calibration
PSC 4CH-MSS-AR Slow XY Corr_S/N 0006
2026-01-02 17:45:24

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
-1.001051	1.003194	-1.010395	-1.011518	1.002327	0.019073
-27.001663	26.998744	-26.812294	-26.819910	27.037781	0.023837

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002337	-0.016995	-0.017868	0.000000
Initial measured gains:	0.999805	0.992357	0.992607	1.001535
Gain corrections:	0.999805	1.007702	1.007448	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	1.001313
27.000000	27.035934

Measured offset: -0.000019

Measured gain: 1.001332

Gain correction: 0.998670

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001115	1.000917	-1.001078	-1.001050	1.001362	0.037935
-27.001547	27.001756	-27.001629	-27.001503	27.002157	0.046169

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000214	0.000042	0.000067	0.000447
Final measured gains:	1.000016	1.000005	1.000001	0.999998

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000184	-0.000413	-0.000370	0.000438
Final measured offsets stdev:	0.000338	0.000317	0.000310	0.000096
Final measured gains mean:	0.999908	0.999904	0.999907	0.999993
Final measured gains stdev:	0.000164	0.000159	0.000155	0.000006

Saving channel 1 calibration constants to qspi

lab{2}Chan2
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000303	1.002588	-1.008359	-1.010478	0.999487	0.030404
-27.001235	26.993451	-26.811064	-26.806257	27.078398	0.033047

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002672	-0.015682	-0.018067	0.000000
Initial measured gains:	0.999613	0.992376	0.992110	1.003388
Gain corrections:	0.999613	1.007682	1.007953	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	0.999213
27.000000	27.076794

Measured offset: -0.003771

Measured gain: 1.002984

Gain correction: 0.997025

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000196	1.000198	-1.000504	-1.000553	1.000134	0.002770
-27.001120	27.001585	-27.001667	-27.001499	27.001890	0.040654

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000016	-0.000299	-0.000356	-0.000078
Final measured gains:	1.000018	1.000009	1.000001	1.000014

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000021	-0.000352	-0.000289	-0.000194
Final measured offsets stdev:	0.000195	0.000108	0.000167	0.000250
Final measured gains mean:	0.999986	0.999986	0.999986	1.000003
Final measured gains stdev:	0.000021	0.000015	0.000013	0.000006

Saving channel 2 calibration constants to qspi

lab{2}Chan3
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999816	1.003220	-1.010226	-1.010576	1.002535	0.051418
-27.000687	26.980041	-26.795603	-26.823074	27.020002	0.020556

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.004328	-0.018696	-0.018004	0.000000
Initial measured gains:	0.999075	0.991712	0.992755	1.001565
Gain corrections:	0.999075	1.008357	1.007298	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	1.002590
27.000000	27.019054

Measured offset: 0.001957

Measured gain: 1.000633

Gain correction: 0.999367

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999829	1.000049	-1.000152	-1.000007	1.000704	0.049018
-27.000860	27.000739	-27.000671	-27.000710	27.001621	0.049272

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000234	-0.000343	-0.000191	0.000646
Final measured gains:	0.999987	0.999980	0.999987	1.000009

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000174	-0.000186	-0.000158	0.000839
Final measured offsets stdev:	0.000219	0.000165	0.000181	0.000184
Final measured gains mean:	0.999995	0.999987	0.999989	1.000001
Final measured gains stdev:	0.000010	0.000012	0.000013	0.000017

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
-0.999707	1.005465	-1.010649	-1.010347	1.000288	0.011193
-27.000649	27.002759	-26.824924	-26.815994	27.072828	0.001358

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005898	-0.018119	-0.018149	0.000000
Initial measured gains:	0.999860	0.992821	0.992489	1.002894
Gain corrections:	0.999860	1.007231	1.007568	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	1.000748
27.000000	27.072412

Measured offset: -0.002008

Measured gain: 1.002756

Gain correction: 0.997251

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999575	0.999686	-0.999569	-0.999442	0.999361	0.055352
-27.000698	27.001013	-27.000950	-27.000935	27.000969	0.032811

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000103	0.000015	0.000147	-0.000335
Final measured gains:	1.000008	1.000010	1.000014	1.000011

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000034	-0.000197	-0.000080	-0.000393
Final measured offsets stdev:	0.000198	0.000182	0.000191	0.000309
Final measured gains mean:	0.999990	0.999986	0.999993	1.000015
Final measured gains stdev:	0.000013	0.000013	0.000011	0.000012

Saving channel 4 calibration constants to qspi

Test data reviewed by _____ Date_____