

Report of Calibration
PSC 4CH-MSS-AR Slow XY Corr_S/N 0012
2026-01-05 17:16:54

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{3}Chan1
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000844	1.002114	-1.009576	-1.008871	1.001658	0.051021
-27.001343	27.012283	-26.829981	-26.797606	27.051926	0.029768

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000898	-0.015665	-0.016179	0.000000
Initial measured gains:	1.000372	0.993073	0.991855	1.001542
Gain corrections:	1.000372	1.006975	1.008212	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	1.000765
27.000000	27.050159

Measured offset: -0.001135
Measured gain: 1.001900
Gain correction: 0.998104

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000600	1.000796	-1.000978	-1.000993	1.000507	0.032595
-27.001175	27.001337	-27.001116	-27.001251	27.001221	0.036652

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000197	-0.000396	-0.000406	-0.000295
Final measured gains:	0.999999	0.999983	0.999988	1.000007

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000033	-0.000232	-0.000246	-0.000368
Final measured offsets stdev:	0.000255	0.000173	0.000183	0.000408
Final measured gains mean:	0.999995	0.999988	0.999990	1.000019
Final measured gains stdev:	0.000018	0.000004	0.000004	0.000013

Saving channel 1 calibration constants to qspi

lab{3}Chan2
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999997	1.001143	-1.008257	-1.009991	0.999043	0.044649
-27.000951	26.989645	-26.807320	-26.807102	27.046602	0.033641

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.001625	-0.016025	-0.017834	0.000000
Initial measured gains:	0.999521	0.992235	0.992160	1.002272
Gain corrections:	0.999521	1.007826	1.007902	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	0.999032
27.000000	27.046026

Measured offset: -0.002775
Measured gain: 1.001807
Gain correction: 0.998196

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000044	0.999997	-1.000064	-1.000392	1.000902	0.037193
-27.001013	27.000432	-27.000534	-27.000854	27.000481	0.024542

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000027	-0.000040	-0.000367	0.000938
Final measured gains:	0.999979	0.999981	0.999981	0.999967

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000081	-0.000052	-0.000253	0.000319
Final measured offsets stdev:	0.000059	0.000050	0.000134	0.000477
Final measured gains mean:	0.999995	0.999997	0.999993	0.999992
Final measured gains stdev:	0.000010	0.000010	0.000008	0.000025

Saving channel 2 calibration constants to qspi

lab{3}Chan3
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999805	1.001645	-1.007701	-1.009381	1.002629	0.052187
-27.001018	26.974715	-26.792934	-26.815842	27.028496	0.059350

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002923	-0.016201	-0.017065	0.000000
Initial measured gains:	0.998918	0.991693	0.992510	1.002033
Gain corrections:	0.998918	1.008376	1.007547	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 1.003040

27.000000 27.027617

Measured offset: 0.002094

Measured gain: 1.000945

Gain correction: 0.999056

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999953	0.999816	-1.000288	-1.000137	0.999948	0.027466
-27.001200	27.001393	-27.001472	-27.001518	27.002321	0.048905

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000150	-0.000337	-0.000179	0.000101
Final measured gains:	1.000013	0.999998	1.000005	1.000031

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000125	-0.000271	-0.000138	0.000220
Final measured offsets stdev:	0.000142	0.000139	0.000125	0.000301
Final measured gains mean:	1.000016	1.000005	1.000005	1.000027
Final measured gains stdev:	0.000019	0.000021	0.000021	0.000006

Saving channel 3 calibration constants to qspi

lab{3}Chan4
Burden resistor = 33.3333

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999384	1.002104	-1.009909	-1.006959	1.000370	0.032235
-27.000840	26.994164	-26.813412	-26.812523	27.047260	0.015880

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003081	-0.018133	-0.015104	0.000000
Initial measured gains:	0.999639	0.992387	0.992466	1.002109
Gain corrections:	0.999639	1.007672	1.007591	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	1.001033
27.000000	27.046488

Measured offset: -0.000715
Measured gain: 1.001748
Gain correction: 0.998255

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999494	0.999249	-0.999345	-0.999417	0.999251	0.028557
-27.000805	27.000563	-27.000610	-27.000923	27.000151	0.005888

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000245	0.000148	0.000084	0.000019
Final measured gains:	1.000000	0.999998	1.000007	0.999984

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000066	-0.000195	-0.000126	0.000197
Final measured offsets stdev:	0.000107	0.000182	0.000132	0.000391
Final measured gains mean:	0.999995	0.999988	0.999993	0.999991
Final measured gains stdev:	0.000012	0.000007	0.000010	0.000017

Saving channel 4 calibration constants to qspi

Test data reviewed by _____ Date_____