

Report of Calibration  
PSC 4CH-MSS-BTA-Q12-Q8-Q7-Q11\_S/N 0021  
2026-01-20 17:52:55

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
-0.999161	1.008317	-1.128043	-1.126284	1.003654	-0.005351
-224.047974	224.197260	-222.685577	-222.600601	224.822006	0.013811

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.008529	-0.135562	-0.134176	0.000000
Initial measured gains:	1.000628	0.993314	0.992941	1.002820
Gain corrections:	1.000628	1.006731	1.007109	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	1.005618
225.000000	225.777451

Measured offset: 0.002172

Measured gain: 1.003446

Gain correction: 0.996566

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999856	0.999503	-1.000022	-1.000627	1.005755	0.023014
-224.048261	224.046390	-224.048019	-224.049118	224.050751	0.002990

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000346	-0.000167	-0.000770	0.006261
Final measured gains:	0.999993	0.999998	1.000000	0.999992

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000837	-0.002177	-0.000978	0.005929
Final measured offsets stdev:	0.000576	0.001013	0.000159	0.001191
Final measured gains mean:	0.999991	0.999990	0.999992	0.999998
Final measured gains stdev:	0.000003	0.000005	0.000005	0.000011

Saving channel 1 calibration constants to qspi

Burden resistor = 8.0000

Measuring initial gains and offsets

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.001385	1.031316	-1.143107	-1.144992	0.990542	-0.010297
-224.047314	224.068968	-222.487167	-222.445938	224.652191	0.010977

	dacSP	dcctl1	dcct2	dacRB
Initial measured offsets:	-0.029968	-0.149363	-0.151441	0.000000
Initial measured gains:	0.999963	0.992370	0.992177	1.002798
Gain corrections:	0.999963	1.007689	1.007885	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	0.988578
225.000000	225.610016

Measured offset: -0.014197

Measured gain: 1.002774

Gain correction: 0.997233

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.001357	1.002826	-1.003939	-1.004842	0.997578	-0.012357
-224.047488	224.047182	-224.048523	-224.047333	224.041641	0.021331

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets:	-0.001477	-0.002589	-0.003501	-0.005247
Final measured gains:	0.999992	0.999993	0.999984	0.999999

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets mean:	0.000024	-0.002112	-0.003217	-0.003424
Final measured offsets stdev:	0.000768	0.000680	0.000266	0.000931
Final measured gains mean:	0.999994	0.999988	0.999985	0.999998
Final measured gains stdev:	0.000001	0.000003	0.000004	0.000006

Saving channel 2 calibration constants to qspi

Burden resistor = 6.0000

Measuring initial gains and offsets

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.000594	1.026001	-1.162561	-1.189196	1.010248	-0.002129
-300.082474	299.980460	-297.960693	-298.121704	300.823517	0.100684

	dacSP	dcctl1	dcct2	dacRB
Initial measured offsets:	-0.025834	-0.169608	-0.195792	0.000000
Initial measured gains:	0.999574	0.992364	0.992813	1.002873
Gain corrections:	0.999574	1.007695	1.007239	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	1.011039
300.000000	300.738708

Measured offset: 0.008606

Measured gain: 1.002434

Gain correction: 0.997572

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.001144	1.000991	-1.005146	-1.003913	1.010004	-0.005908
-300.083532	300.079646	-300.082489	-300.083221	300.098633	0.094663

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets:	0.000140	-0.004019	-0.002779	0.008979
Final measured gains:	0.999988	0.999983	0.999990	1.000033

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets mean:	-0.000443	-0.002196	-0.001092	0.009556
Final measured offsets stdev:	0.000551	0.001580	0.000880	0.000856
Final measured gains mean:	0.999988	0.999988	0.999992	1.000018
Final measured gains stdev:	0.000001	0.000003	0.000003	0.000008

Saving channel 3 calibration constants to qspi

Burden resistor = 6.7900

Measuring initial gains and offsets

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.000307	1.024068	-1.160372	-1.138801	0.976515	0.012827
-266.068131	266.117903	-264.242004	-264.334412	266.752747	0.061086

	dacSP	dcctl1	dcct2	dacRB
Initial measured offsets:	-0.023663	-0.167561	-0.145560	0.000000
Initial measured gains:	1.000098	0.992507	0.992937	1.002574
Gain corrections:	1.000098	1.007550	1.007113	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	0.976031
265.000000	265.684204

Measured offset: -0.026652

Measured gain: 1.002682

Gain correction: 0.997325

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcctl1	dcct2	dacRB	err
-1.000739	0.999945	-1.002836	-1.003886	0.994547	0.011991
-266.067783	266.065764	-266.068115	-266.069427	266.062012	0.063014

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets:	0.000790	-0.002103	-0.003152	-0.005404
Final measured gains:	0.999995	0.999993	0.999994	1.000006

	dacSP	dcctl1	dcct2	dacRB
Final measured offsets mean:	0.001580	-0.002106	-0.003387	-0.004743
Final measured offsets stdev:	0.000615	0.000391	0.000500	0.000937
Final measured gains mean:	0.999997	0.999991	0.999988	1.000010
Final measured gains stdev:	0.000001	0.000003	0.000006	0.000008

Saving channel 4 calibration constants to qspi

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