

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0014
2026-01-08 19:39:59

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{5}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001400	1.004140	-1.029430	-1.027739	0.996826	0.028504
-50.008143	49.994020	-49.627663	-49.637348	49.950176	0.056103

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003084	-0.036378	-0.034454	0.000000
Initial measured gains:	0.999656	0.991664	0.991896	0.999254
Gain corrections:	0.999656	1.008406	1.008170	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	0.995608
50.000000	49.942543

Measured offset: -0.003309

Measured gain: 0.998917

Gain correction: 1.001084

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001232	1.001298	-1.001283	-1.001206	1.000126	0.037054
-50.008435	50.008045	-50.008041	-50.008026	50.006023	0.065989

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000075	-0.000060	0.000018	-0.001154
Final measured gains:	0.999991	0.999991	0.999992	0.999983

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000098	-0.000115	-0.000135	-0.000501
Final measured offsets stdev:	0.000209	0.000082	0.000114	0.000622
Final measured gains mean:	0.999984	0.999988	0.999988	1.000001
Final measured gains stdev:	0.000009	0.000006	0.000005	0.000017

Saving channel 1 calibration constants to qspi

lab{5}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000508	1.019647	-1.062911	-1.058996	1.006918	0.018866
-100.015461	99.991513	-99.255386	-99.349541	100.168152	0.126456

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.019574	-0.070713	-0.065808	0.000000
Initial measured gains:	0.999565	0.991693	0.992684	1.001913
Gain corrections:	0.999565	1.008376	1.007370	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 1.006105
100.000000 100.153755

Measured offset: 0.004614

Measured gain: 1.001491

Gain correction: 0.998511

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000740	1.000664	-1.000763	-1.000731	1.003385	0.019436
-100.015969	100.015490	-100.015114	-100.015320	100.016235	0.137916

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000071	-0.000032	0.000002	0.002740
Final measured gains:	0.999996	0.999991	0.999994	0.999980

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-30420.038674	0.031959	0.009953	
0.002823				
Final measured offsets stdev:	60840.076850	0.064512	0.020143	0.000480
Final measured gains mean:	-30388.405414	1.032192	1.010045	
0.999981				
Final measured gains stdev:	60778.810792	0.064419	0.020111	0.000013

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____