Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0004
2025-11-24 14:25:55

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{5}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets
```
       Itest        dacSP        dcct1        dcct2        dacRB          err
    -1.000613     0.998095    -1.028164    -1.026721     1.000979     0.038635
   -50.005970    50.024637   -49.663334   -49.657726    50.123871     0.062210
```

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.002951	-0.035109	-0.033752	0.000000
Initial measured gains:	1.000432	0.992446	0.992361	1.001965
Gain corrections:	1.000432	1.007611	1.007698	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   1.000633
50.000000   50.118137
```

Measured offset: -0.001765
Measured gain: 1.002398
Gain correction: 0.997608

Writing gain and offset constants for dacRB to PSC

Verification
```
       Itest        dacSP        dcct1        dcct2        dacRB          err
    -1.000575     1.000312    -1.000626    -1.000731     1.000907     0.036731
   -50.005957    50.005201   -50.005547   -50.005535    50.006420     0.055118
```

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000252	-0.000060	-0.000168	0.000582
Final measured gains:	0.999990	0.999991	0.999988	1.000013

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000088	-0.000065	-0.000058	0.000128
Final measured offsets stdev:	0.000253	0.000156	0.000195	0.000571
Final measured gains mean:	0.999985	0.999984	0.999986	1.000000
Final measured gains stdev:	0.000013	0.000007	0.000007	0.000009

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
   -1.000274      0.991256     -1.060808     -1.063322      1.002166      0.017996
 -100.012127    100.034771    -99.313034    -99.321022    100.240738      0.133546

                                 dacSP         dcct1         dcct2         dacRB
Initial measured offsets:      0.009338     -0.068208     -0.070667      0.000000
Initial measured gains:        1.000320      0.992328      0.992383      1.001969
Gain corrections:              1.000320      1.007731      1.007675      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   1.001476
100.000000   100.228233

Measured offset: -0.000814
Measured gain: 1.002290
Gain correction: 0.997715

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP         dcct1         dcct2         dacRB           err
   -1.000176      1.000203     -1.000406     -1.000319      1.001578      0.022364
 -100.012208    100.011140   -100.011261   -100.011177    100.012825      0.133804


                                 dacSP         dcct1         dcct2         dacRB
Final measured offsets:       -0.000038     -0.000242     -0.000154      0.001371
Final measured gains:          0.999989      0.999988      0.999988      1.000003


                                 dacSP         dcct1         dcct2         dacRB
Final measured offsets mean:   0.000148     -0.000235     -0.000090      0.001594
Final measured offsets stdev:  0.000279      0.000079      0.000155      0.000175
Final measured gains mean:     0.999985      0.999986      0.999988      0.999987
Final measured gains stdev:    0.000009      0.000005      0.000006      0.000010

Saving channel 2 calibration constants to qspi




Test data reviewed by _____   Date_____


Page 2 of 2
```