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Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0024
2026-01-04 12:11:49


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{4}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets
      Itest      dacSP       dcct1       dcct2       dacRB         err
   -1.001447    1.002185   -1.026852   -1.026141    1.000126    0.022287
  -50.007608   50.008928  -49.655403  -49.650963   50.073437    0.075073


                                dacSP        dcct1        dcct2        dacRB
Initial measured offsets:     -0.000727    -0.033121    -0.032487    0.000000
Initial measured gains:        1.000012     0.992295     0.992219    1.001358
Gain corrections:              1.000012     1.007765     1.007842    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   0.998745
50.000000   50.066368

Measured offset: -0.002635
Measured gain: 1.001380
Gain correction: 0.998622


Writing gain and offset constants for dacRB to PSC

Verification
      Itest      dacSP       dcct1       dcct2       dacRB         err
   -1.001450    1.001392   -1.001411   -1.001437    1.001750    0.030413
  -50.007775   50.007425  -50.007557  -50.007626   50.007679    0.055350


                                dacSP        dcct1        dcct2        dacRB
Final measured offsets:        0.000052     0.000035     0.000011     0.000360
Final measured gains:          0.999994     0.999996     0.999997     0.999998



                                dacSP        dcct1        dcct2        dacRB
Final measured offsets mean: -0.000151     0.000008    -0.000053     0.000222
Final measured offsets stdev: 0.000340     0.000100     0.000143     0.000404
Final measured gains mean:    0.999986     0.999993     0.999992     0.999990
Final measured gains stdev:   0.000014     0.000004     0.000005     0.000013

Saving channel 1 calibration constants to qspi
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Burden resistor = 9.0000

Measuring initial gains and offsets
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.000634     0.999011    -1.053118    -1.053565     0.999811     0.035808
 -100.015003    99.999038   -99.298546   -99.373886   100.227501     0.034923

                                  dacSP          dcct1          dcct2          dacRB
Initial measured offsets:      0.001479      -0.060255      -0.059944       0.000000
Initial measured gains:        0.999855       0.992234       0.992990       1.002300
Gain corrections:              0.999855       1.007827       1.007059       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    1.000583
100.000000    100.214218

Measured offset: -0.001575
Measured gain: 1.002158
Gain correction: 0.997847

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -1.000477     1.000023    -1.000627    -1.000774     1.000177    -0.000810
 -100.015117   100.000104  -100.014229  -100.014214   100.000725    -0.003384


                                  dacSP          dcct1          dcct2          dacRB
Final measured offsets:        0.000307      -0.000160      -0.000309       0.000149
Final measured gains:          0.999853       0.999990       0.999988       1.000005


                                  dacSP          dcct1          dcct2          dacRB
Final measured offsets mean:   0.000755      -0.000004      -0.000133      -0.000144
Final measured offsets stdev:  0.000318       0.000118       0.000120       0.000290
Final measured gains mean:     0.999866       0.999987       0.999987       0.999995
Final measured gains stdev:    0.000010       0.000006       0.000005       0.000007

Saving channel 2 calibration constants to qspi




Test data reviewed by _____    Date_____
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