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Report of Calibration
PSC S/N: 0006
2025-08-29 16:39:52

Calibration Current standard: BNL PSC ATE S/N 001
Calibration Volt standard: HP 3458A-002 S/N 2823A 06900
Calibration Resistance standard: Fluke 742A-1 S/N 1063008
End Header


lab{1}Chan1
Burden resistor = 33.3333

Measuring initial gains and offsets
       Itest        dacSP        dcct1        dcct2        dacRB          err
    -0.999892     1.003266    -1.012094    -1.008849     0.997525    -0.135008
   -26.997601    27.001214   -26.814594   -26.802458    27.034107    -0.016185


                                   dacSP         dcct1         dcct2         dacRB
Initial measured offsets:      -0.003365     -0.019709     -0.016807      0.000000
Initial measured gains:         1.000009      0.992491      0.992149      1.001486
Gain corrections:               1.000009      1.007565      1.007913      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   0.997738
27.000000   27.036154

Measured offset: -0.003739
Measured gain: 1.001478
Gain correction: 0.998525

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
    -0.999795     1.001842    -1.000023    -1.000227     1.002250    -0.068436
   -26.997666    26.999791   -26.997711   -26.997740    27.000196     0.041135


                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets:        -0.002043     -0.000235     -0.000446      0.000409
Final measured gains:           1.000003      0.999993      0.999986      1.000000



                                   dacSP         dcct1         dcct2         dacRB
Final measured offsets mean: -0.001917     -0.000201     -0.000288      0.000405
Final measured offsets stdev: 0.000113      0.000097      0.000089      0.000046
Final measured gains mean:    1.000006      0.999995      0.999989      1.000006
Final measured gains stdev:   0.000005      0.000003      0.000003      0.000008

Saving channel 1 calibration constants to qspi
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lab{1}Chan2
Burden resistor = 33.3333

Measuring initial gains and offsets
      Itest        dacSP         dcct1         dcct2         dacRB          err
   -0.999676     1.001930     -1.010305     -1.008050      0.992629     -0.075609
  -26.997567    27.001679    -26.826340    -26.807438     27.008940     -0.036038

                                    dacSP          dcct1          dcct2          dacRB
Initial measured offsets:        -0.002182      -0.017622      -0.016007       0.000000
Initial measured gains:           1.000071       0.993005       0.992365       1.000637
Gain corrections:                 1.000071       1.007044       1.007694       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    0.993101
27.000000    27.011101

Measured offset: -0.007592
Measured gain: 1.000692
Gain correction: 0.999308

Writing gain and offset constants for dacRB to PSC

Verification
      Itest        dacSP         dcct1         dcct2         dacRB          err
   -0.999560     1.000882     -1.000037     -1.000107      1.001099     -0.038812
  -26.997528    26.999784    -26.997562    -26.997669     26.999674      0.039315


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets:          -0.001286      -0.000494      -0.000562       0.000230
Final measured gains:             1.000036       0.999983       0.999984       0.999987


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets mean: -0.001312      -0.000355      -0.000411       0.000274
Final measured offsets stdev: 0.000035       0.000118       0.000111       0.000066
Final measured gains mean:    1.000037       0.999988       0.999985       1.000002
Final measured gains stdev:   0.000005       0.000008       0.000005       0.000013

Saving channel 2 calibration constants to qspi
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```
lab{1}Chan3
Burden resistor = 33.3333

Measuring initial gains and offsets
       Itest       dacSP       dcct1       dcct2       dacRB         err
   -0.999708    1.002282   -1.010930   -1.010583    0.998566   -0.089082
  -26.997484   26.999732  -26.815401  -26.816010   27.013107    0.039909

                                  dacSP        dcct1        dcct2        dacRB
Initial measured offsets:     -0.002586    -0.018655    -0.018271     0.000000
Initial measured gains:        0.999987     0.992565     0.992601     1.000657
Gain corrections:              0.999987     1.007491     1.007454     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   0.998758
27.000000   27.015820

Measured offset: -0.001898
Measured gain: 1.000656
Gain correction: 0.999344

Writing gain and offset constants for dacRB to PSC

Verification
       Itest       dacSP       dcct1       dcct2       dacRB         err
   -0.999606    1.001155   -0.999909   -1.000027    1.001740   -0.042522
  -26.997488   26.998631  -26.997307  -26.997534   26.998802    0.087236


                                  dacSP        dcct1        dcct2        dacRB
Final measured offsets:       -0.001564    -0.000322    -0.000436     0.000602
Final measured gains:          0.999984     0.999981     0.999986     0.999984


                                  dacSP        dcct1        dcct2        dacRB
Final measured offsets mean: -0.001523    -0.000337    -0.000317     0.000326
Final measured offsets stdev: 0.000052     0.000082     0.000084     0.000282
Final measured gains mean:    0.999992     0.999989     0.999986     0.999990
Final measured gains stdev:   0.000005     0.000005     0.000004     0.000004

Saving channel 3 calibration constants to qspi
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```
lab{1}Chan4
Burden resistor = 33.3333

Measuring initial gains and offsets
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -0.999634     1.002268    -1.008869    -1.009849     0.993824    -0.090676
  -26.997549    26.997530   -26.813255   -26.822636    26.991922     0.135635

                                    dacSP        dcct1        dcct2        dacRB
Initial measured offsets:       -0.002736    -0.016676    -0.017333     0.000000
Initial measured gains:          0.999898     0.992556     0.992879     1.000109
Gain corrections:                0.999898     1.007500     1.007172     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   0.994126
27.000000   26.994078

Measured offset: -0.005872
Measured gain: 0.999998
Gain correction: 1.000002

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP        dcct1        dcct2        dacRB          err
   -0.999614     1.001209    -1.000060    -1.000183     1.001998    -0.041829
  -26.997681    26.997624   -26.997684   -26.997625    26.998217     0.128976


                                    dacSP        dcct1        dcct2        dacRB
Final measured offsets:         -0.001659    -0.000463    -0.000594     0.000796
Final measured gains:            0.999936     0.999983     0.999976     0.999992


                                    dacSP        dcct1        dcct2        dacRB
Final measured offsets mean: -0.001595    -0.000284    -0.000378     0.000292
Final measured offsets stdev: 0.000040     0.000134     0.000157     0.000569
Final measured gains mean:    0.999943     0.999986     0.999988     1.000000
Final measured gains stdev:   0.000004     0.000004     0.000007     0.000009

Saving channel 4 calibration constants to qspi




Test data reviewed by _____   Date_____


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