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Report of Calibration
PSC 4CH-MSS-AR-SK_S/N 0016
2025-12-31 14:03:55

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 = 33.3333

Measuring initial gains and offsets
        Itest        dacSP         dcct1         dcct2         dacRB           err
    -1.000451     1.005034     -1.012675     -1.011008      1.004591      0.047249
   -27.000932    27.003920    -26.823069    -26.850449     27.047352      0.031864


                                    dacSP          dcct1          dcct2          dacRB
Initial measured offsets:        -0.004644      -0.019537      -0.016753       0.000000
Initial measured gains:           0.999939       0.992689       0.993806       1.001688
Gain corrections:                 0.999939       1.007365       1.006232       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   1.004164
27.000000   27.046377

Measured offset: 0.002540
Measured gain: 1.001624
Gain correction: 0.998379


Writing gain and offset constants for dacRB to PSC

Verification
        Itest        dacSP         dcct1         dcct2         dacRB           err
    -1.000474     1.000386     -1.000408     -1.000549      1.001664      0.035221
   -27.001103    27.001029    -27.001316    -27.001141     27.002569      0.043598



                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets:           0.000088       0.000076      -0.000077       0.001268
Final measured gains:             1.000001       1.000011       0.999999       1.000010



                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets mean: -0.000093      -0.000175      -0.000167       0.001134
Final measured offsets stdev: 0.000109       0.000146       0.000107       0.000185
Final measured gains mean:    0.999994       0.999996       0.999993       1.000008
Final measured gains stdev:   0.000011       0.000009       0.000006       0.000009

Saving channel 1 calibration constants to qspi
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lab{2}Chan2
Burden resistor = 33.3333

Measuring initial gains and offsets
       Itest        dacSP         dcct1         dcct2         dacRB           err
    -0.999604     1.000743     -1.008714     -1.009946     1.000194       0.047768
   -27.000639    27.001459    -26.821152    -26.823277    27.069353       0.043344


                                    dacSP          dcct1          dcct2          dacRB
Initial measured offsets:       -0.001151      -0.016360      -0.017558       0.000000
Initial measured gains:          0.999988       0.992747       0.992781       1.002632
Gain corrections:                0.999988       1.007306       1.007272       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   1.000660
27.000000   27.068575

Measured offset: -0.001952
Measured gain: 1.002612
Gain correction: 0.997395

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP         dcct1         dcct2         dacRB           err
    -0.999557     0.999695     -0.999855     -0.999918     1.000118       0.038931
   -27.000786    27.000140    -27.000530    -27.000614    27.000090       0.018574


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets:         -0.000168      -0.000319      -0.000381       0.000441
Final measured gains:            0.999970       0.999979       0.999980       0.999982



                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets mean: -0.000016      -0.000178      -0.000183       0.000401
Final measured offsets stdev: 0.000121       0.000111       0.000123       0.000281
Final measured gains mean:    0.999996       0.999998       0.999998       0.999991
Final measured gains stdev:   0.000016       0.000014       0.000012       0.000009

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

Measuring initial gains and offsets
        Itest        dacSP        dcct1        dcct2        dacRB          err
    -0.999592     0.999581    -1.007213    -1.009661     1.001603      0.046798
    -27.001051    26.991249   -26.809622   -26.818903    27.049749     0.034063

                                    dacSP          dcct1          dcct2          dacRB
Initial measured offsets:        -0.000365      -0.015274      -0.017459       0.000000
Initial measured gains:           0.999623       0.992345       0.992607       1.002173
Gain corrections:                 0.999623       1.007714       1.007448       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   1.002185
27.000000   27.048609

Measured offset: 0.000399
Measured gain: 1.001786
Gain correction: 0.998218

Writing gain and offset constants for dacRB to PSC

Verification
        Itest        dacSP        dcct1        dcct2        dacRB          err
    -0.999798     0.999636    -1.000048    -0.999979     1.000715      0.024334
    -27.000979    27.000322   -27.000652   -27.000504    27.001539     0.006889


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets:           0.000143      -0.000272      -0.000207       0.001074
Final measured gains:             0.999981       0.999978       0.999975       1.000005


                                    dacSP          dcct1          dcct2          dacRB
Final measured offsets mean:     0.000092      -0.000274      -0.000257       0.000814
Final measured offsets stdev:    0.000031       0.000106       0.000099       0.000446
Final measured gains mean:       0.999990       0.999986       0.999986       1.000004
Final measured gains stdev:      0.000011       0.000007       0.000006       0.000012

Saving channel 3 calibration constants to qspi
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lab{2}Chan4
Burden resistor = 33.3333

Measuring initial gains and offsets
       Itest        dacSP         dcct1         dcct2         dacRB           err
    -0.999326     0.998397     -1.007334     -1.007606     0.998128       0.055577
    -27.000698    26.998550    -26.820986    -26.809542    27.040983      0.050743

                                      dacSP         dcct1         dcct2          dacRB
Initial measured offsets:          0.000882     -0.015222     -0.015945       0.000000
Initial measured gains:            0.999953      0.992780      0.992330       1.001642
Gain corrections:                  0.999953      1.007272      1.007730       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   0.999109
27.000000   27.040331

Measured offset: -0.002476
Measured gain: 1.001585
Gain correction: 0.998417

Writing gain and offset constants for dacRB to PSC

Verification
       Itest        dacSP         dcct1         dcct2         dacRB           err
    -0.999588     0.999174     -0.999691     -0.999724     0.999125       0.033080
    -27.000595    27.000343    -27.000843    -27.000755    27.000700      0.056514


                                      dacSP         dcct1         dcct2          dacRB
Final measured offsets:            0.000420     -0.000097     -0.000135      -0.000064
Final measured gains:              1.000006      1.000006      1.000001       1.000016


                                      dacSP         dcct1         dcct2          dacRB
Final measured offsets mean:       0.000367     -0.000066     -0.000085      -0.000011
Final measured offsets stdev:      0.000194      0.000152      0.000142       0.000222
Final measured gains mean:         0.999996      0.999995      0.999996       0.999999
Final measured gains stdev:        0.000010      0.000007      0.000002       0.000013

Saving channel 4 calibration constants to qspi




Test data reviewed by _____    Date_____


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