

detdaq18, run 660 (Feb 12, 2021)

Performance Measures

Pedestal Summary

Method: Dark environment, nominal operation, collect 1000 frames @120Hz. Generate per-pixel mean and standard deviation over 1000 frames. Pixels more than 3 sigma out of detector-wide mean are flagged bad. Files archived as xxxx.

Map of pedestal non-conforming pixels for all gain modes [here](#).

Gain Mode	Mean Pedestal Value (ADU)	Number of NCP	Pixels Map, Histogram
FH	3303 $\pm$ 233	4847	Graphs
FM	3232 $\pm$ 226	4804	Graphs
FL	3199 $\pm$ 221	4790	Graphs
AHL	3306 $\pm$ 231	4858	Graphs
AML	3234 $\pm$ 225	4822	Graphs

Noise Summary

Map of noise non-conforming pixels for all gain modes [here](#).

Gain Mode	Variation (ADU)	Number of NCP	Pixels Map, Histogram
FH	6	461801	Graphs
FM	3	378589	Graphs
FL	2	358870	Graphs
AHL	7	166346	Graphs
AML	3	376682	Graphs

Gain and uniformity (photon source)

Map of gain non-conforming pixels for all gain modes [here](#).

Gain Mode	Number of NCP
FH	1
FM	1
FL	6017
AHL	171
AML	80

Configuration Settings:

configdb_readxtc

Global System Acq+Rdo Scope ADC ASICs ASIC Mask Maps

EVR Run EventCode 40

EVR Run Delay [119MHz] 0

Quad0

Quad1

Quad2

Quad3

High

Medium

Low

Auto HL

Auto ML

Set Gain for All

Save Cancel

configdb_readxtc

Global System Acq+Rdo Scope ADC ASICs ASIC Mask Maps

Quad 0

Quad 1

Quad 2

Quad 3

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15

CompTH_DAC 22 DM1en 0 Vldl_b 1 RowStart 0

CompEn_lowB 0 DM2en 0 S2D_tcomp 0 RowStop b1

CompEn_midB 1 emph_bd 0 Filter_DAC 11 ColumnStart 0

CompEn_topB 1 emph_bc 0 testLVDTx 0 ColumnStop 2f

PulserSync 1 VREF_DAC 13 tc 0 chipID 0

pixelDummy 5a VrefLow 3 S2D 3 S2D1_GR 3

Pulser 3ff TPS_tcomp 1 S2D_DAC_Bias 3 S2D2_GR 3

Pbit 0 TPS_MUX 0 TPS_tcDAC 0 S2D3_GR 3

atest 0 RO_Monost 3 TPS_DAC 10 trbit 1

test 0 TPS_GR 3 testBE 0 S2D0_tcDAC 1

Sab_test 0 S2D0_GR 3 is_en 0 S2D0_DAC 14

Hrtest 0 PP_OCB_S2D 1 DelEXEC 0 S2D1_tcDAC 1

PulserR 0 OCB 3 DelCCKreg 0 S2D1_DAC 12

DM1 1 Monost 3 RO_rst_en 1 S2D2_tcDAC 1

DM2 0 fastPP_en 0 SLVDSbit 1 S2D2_DAC 12

Pulser_daq 3 Preamp 4 FELmode 1 S2D3_tcDAC 1

MonostPulser 0 Pixel_CB 4 CompEnOn 0 S2D3_DAC 12

Copy ASICs

Copy From Copy To None All COPY

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15

Q0 Q1 Q2 Q3 Q0 Q1 Q2 Q3 Q0 Q1 Q2 Q3 Q0 Q1 Q2 Q3

Save Cancel

Linearity (signal injection)

Thermal measurements (all thermometers)

Experiment History

Experiment	Hutch	Shifts	Date Deployed
Commissioning			