

detdaq19, run 153 (Sept 13, 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	3238 $\pm$ 248	5050	Graphs
FM	3194 $\pm$ 238	5079	Graphs
FL	3172 $\pm$ 231	5093	Graphs
AHL	3242 $\pm$ 245	5051	Graphs
AML	3196 $\pm$ 237	5082	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	1237	Graphs
FM	3	1671	Graphs
FL	2	14682	Graphs
AHL	7	428	Graphs
AML	3	23	Graphs

Gain and uniformity (photon source)

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

Gain Mode	Number of NCP
FH	0
FM	0
FL	4096
AHL	220
AML	61

Configuration Settings

GlobalSystemAcq+RdoScopeADCASICsASIC MaskMaps

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

GlobalSystemAcq+RdoScopeADCASICsASIC MaskMaps

Quad 0

Quad 1

Quad 2

Quad 3

A0A1A2A3A4A5A6A7A8A9A10A11A12A13A14A15

CompTH_DAC1aDM1en0Vldl_b1RowStart0

CompEn_lowB0DM2en0S2D_tcomp0RowStopb1

CompEn_midB1emph_bd0Filter_DAC11ColumnStart0

CompEn_topB1emph_bc0testLLVDtx0ColumnStop2f

PulserSync1VREF_DAC13tc0chipID0

pixelDummy5aVrefLow3S2D3S2D1_GR3

Pulser3ffTPS_tcomp1S2D_DAC_Bias3S2D2_GR3

Pbit0TPS_MUX0TPS_tcDAC0S2D3_GR3

atest0RO_Monost3TPS_DAC10trbit0

test0TPS_GR3testBE0S2D0_tcDAC1

Sab_test0S2D0_GR3is_en1S2D0_DAC14

Hrtest0PP_OCB_S2D1DelEXEC0S2D1_tcDAC1

PulserR0OCB3DelCCKreg0S2D1_DAC12

DM11Monost3RO_rst_en1S2D2_tcDAC1

DM20fastPP_en0SLVDSbit1S2D2_DAC12

Pulser_daq3Preamp4FELmode1S2D3_tcDAC1

MonostPulser0Pixel_CB4CompEnOn1S2D3_DAC12

Copy ASICs

Copy From

Copy To

None

All

COPY

A0A1A2A3A4A5A6A7A8A9A10A11A12A13A14A15

Q0

Q1

Q2

Q3

Q0

Q1

Q2

Q3

Save

Linearity (signal injection)

Thermal measurements (all thermometers)