
Plots in `trgtools`

Alejandro Oranday

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Trigger Candidate

■ Histograms:

- ▶ Sanity Checks: algorithm, detector ID, type, version.
- ▶ Useful Monitoring: ADC integral.
- ▶ Interesting: Δt for different time definitions.

■ Other:

- ▶ ADC Integral vs Number of TAs scatter plot.
- ▶ Time vs TC with average ticks per TC.

Trigger Activity

■ Histograms:

- ▶ Sanity Checks: algorithm, detector ID, type, version.
- ▶ Useful Monitoring:
 - ▶ ADC: Integral and Peak,
 - ▶ Channel: End, Peak, and Start,
 - ▶ Time: End, Peak, and Start.

■ Event displays

- ▶ Plots TPs within a TA by the time peak and channel number.

Trigger Primitives

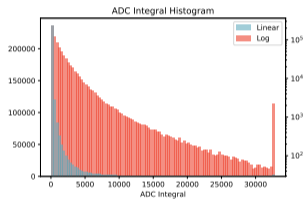
■ Histograms:

- ▶ Sanity Checks: algorithm, flag, detector ID, type, version.
- ▶ Useful Monitoring:
 - ▶ ADC: Integral and Peak,
 - ▶ Channel,
 - ▶ Time: Peak, Start, and Over Threshold.

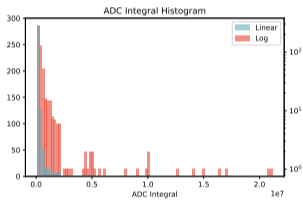
■ Interesting Plots:

- ▶ Time Over Threshold vs Channel scatter plot.
- ▶ ADC Integral vs ADC Peak scatter plot.

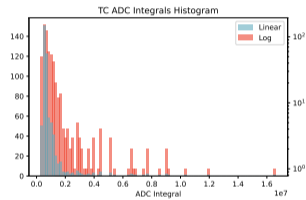
ADC Integral Histograms



TP

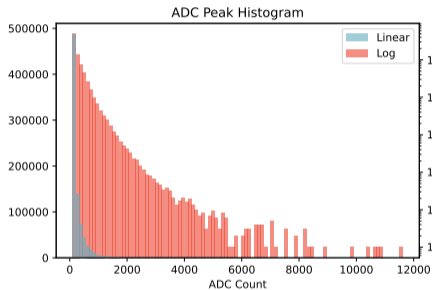


TA

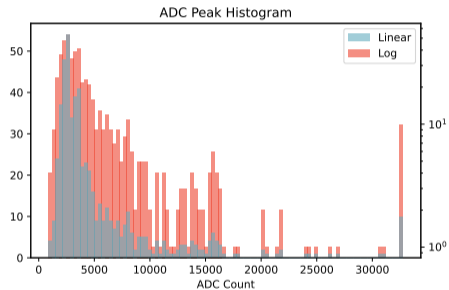


TC

ADC Peak Histograms

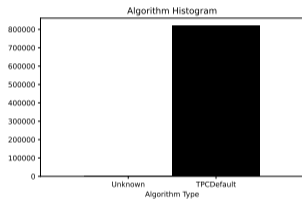


TP

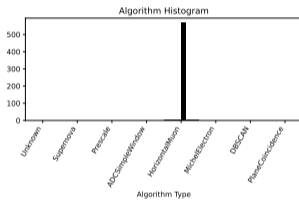


TA

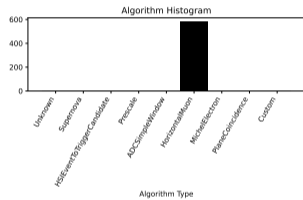
Algorithm Histograms



TP

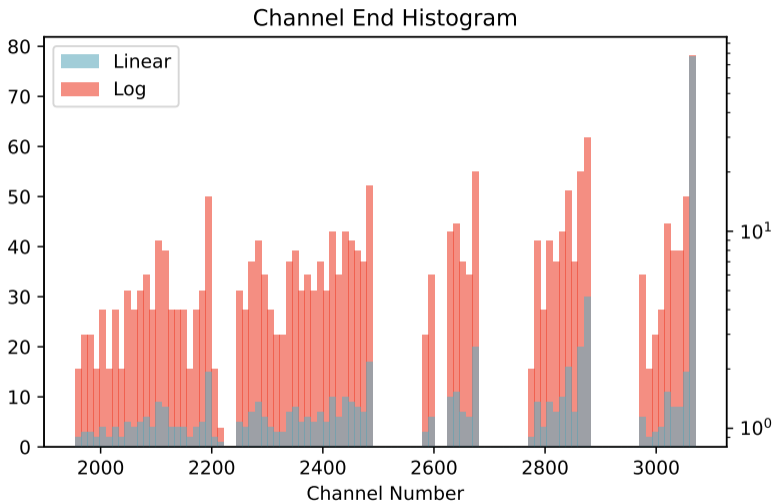


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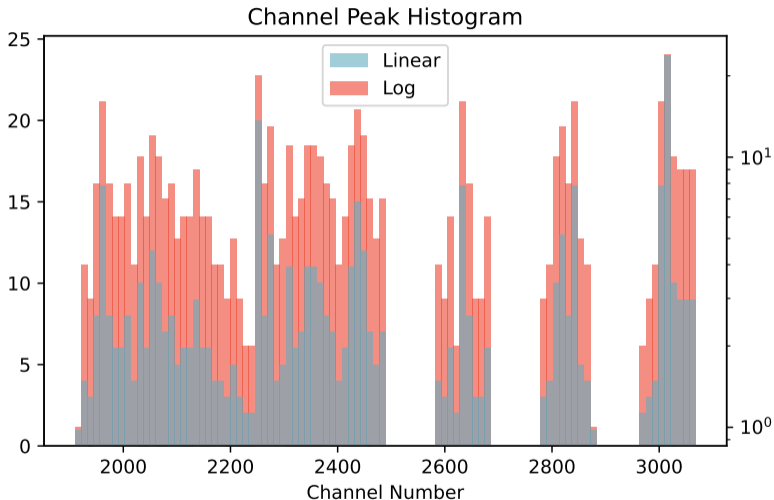


TC

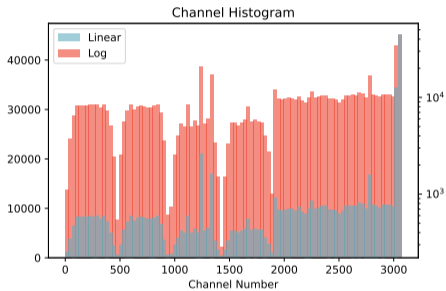
TA Channel End Histogram



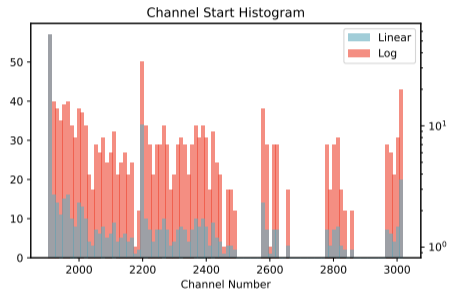
TA Channel Peak Histogram



TP Channel & TA Channel Start Histograms

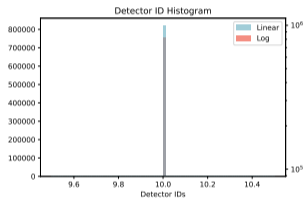


TP

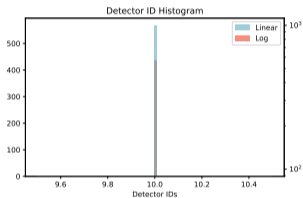


TA

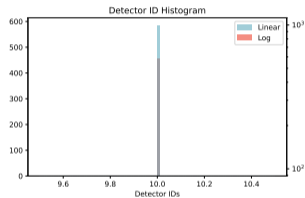
Detector ID Histograms



TP

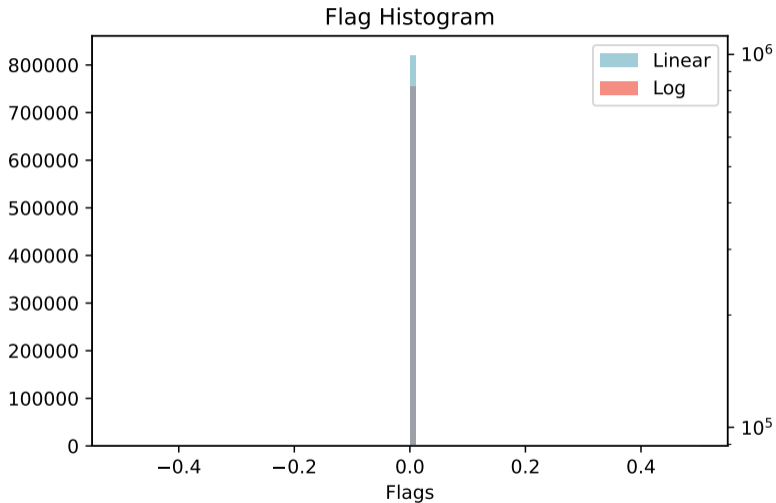


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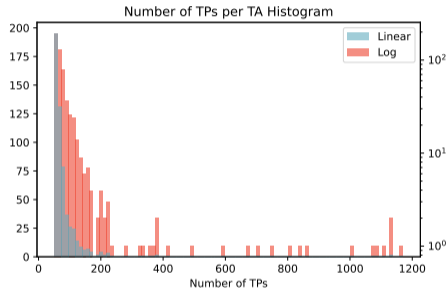


TC

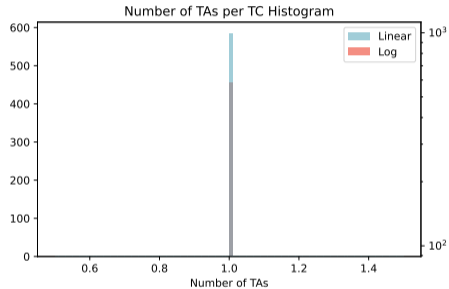
TP Flag Histogram



Number TX per TY Histograms

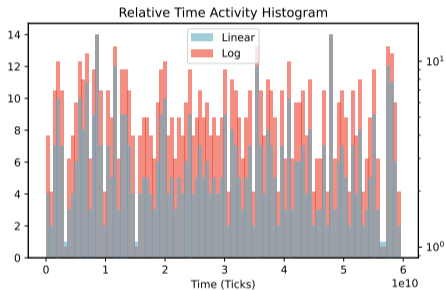


TA

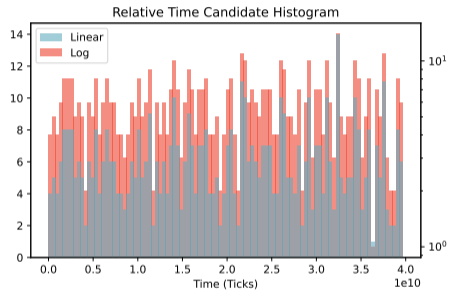


TC

Relative Time Activity & Candidate Histograms

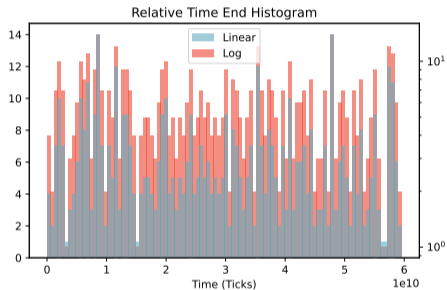


TA

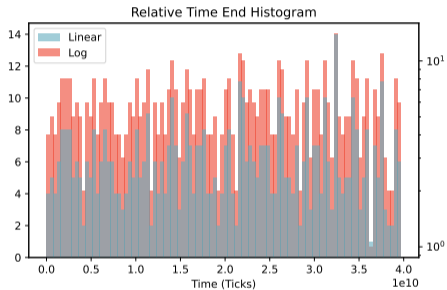


TC

Relative Time End Histograms

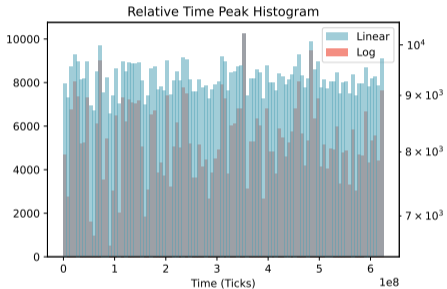


TA

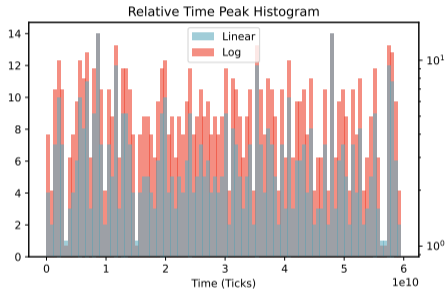


TC

TA Relative Time Peak Histogram

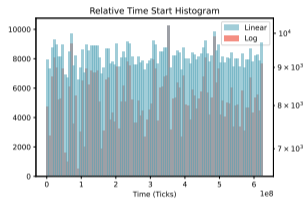


TP

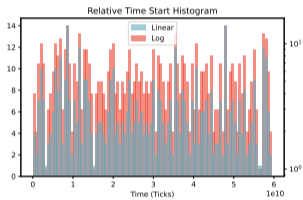


TA

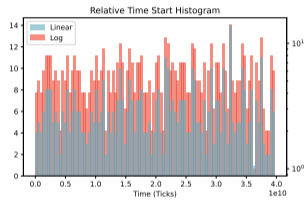
Relative Time Start Histograms



TP

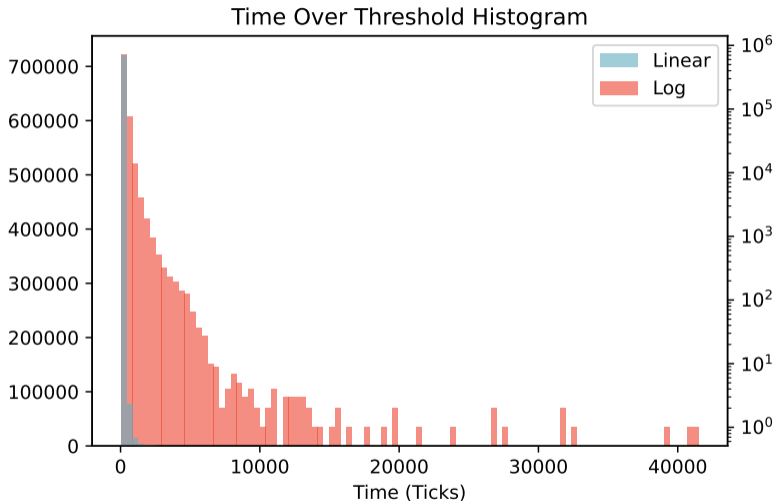


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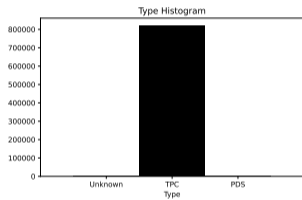


TC

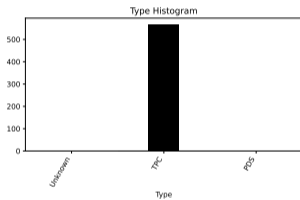
TP Time Over Threshold Histogram



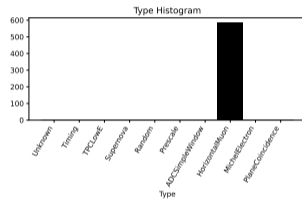
Type Histograms



TP

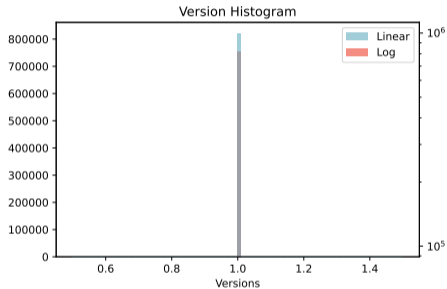


TA

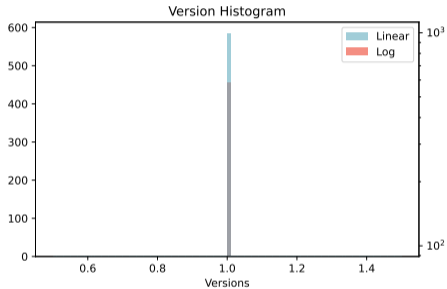


TC

Version Histograms

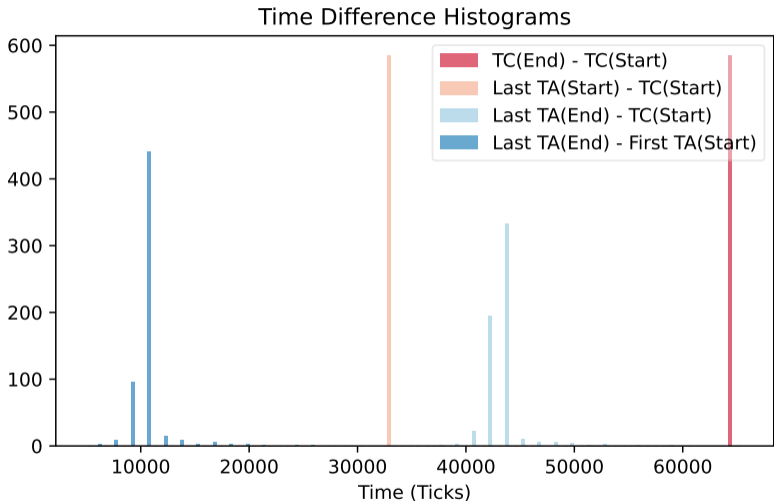


TP

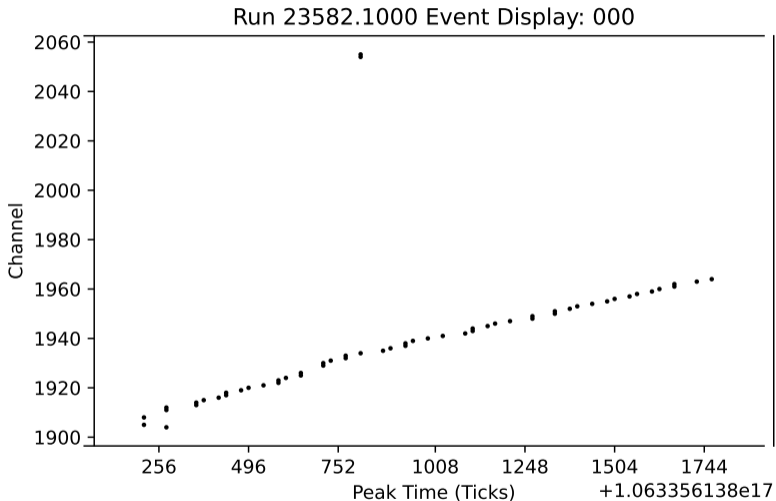


TC

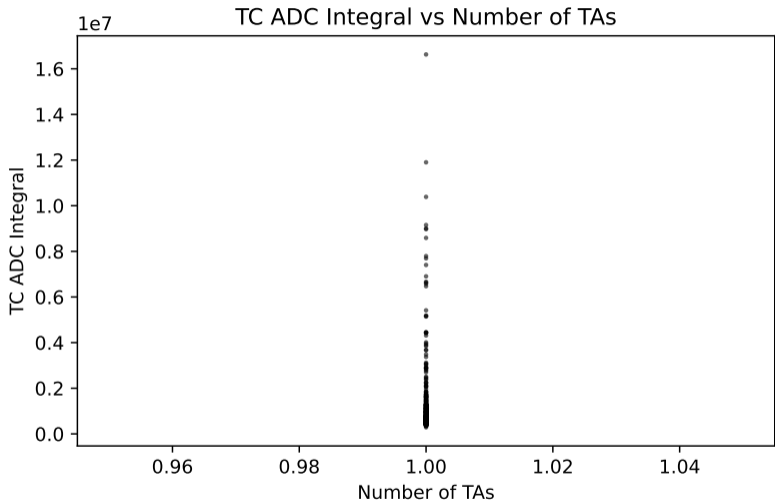
TC Δt Histograms



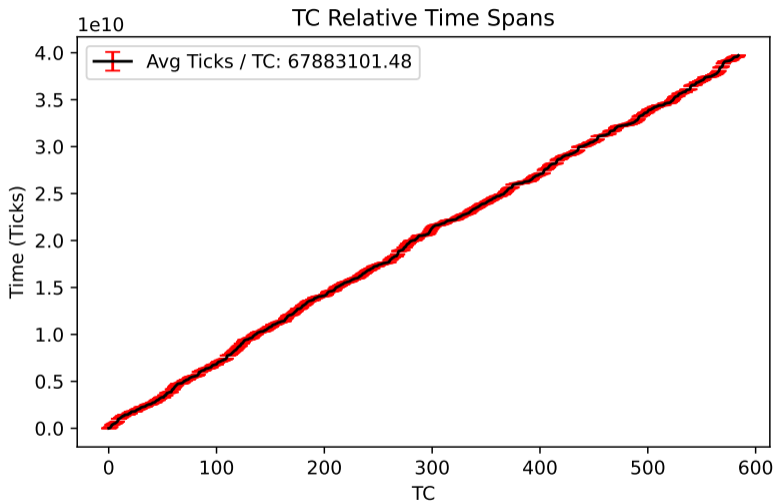
TA Event Display



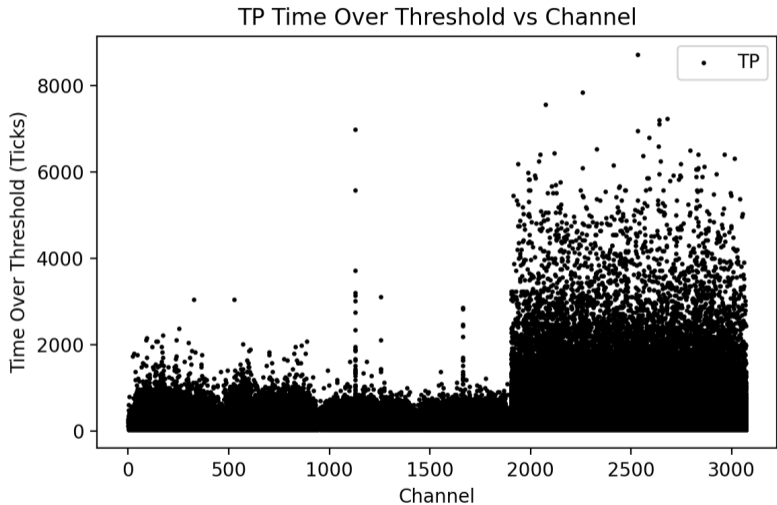
TC ADC Integral vs Number of TAs



TC Relative Time Spans Plot



TP Time Over Threshold vs Channel Scatter Plot



TP ADC Integral vs ADC Peak Scatter Plot

