

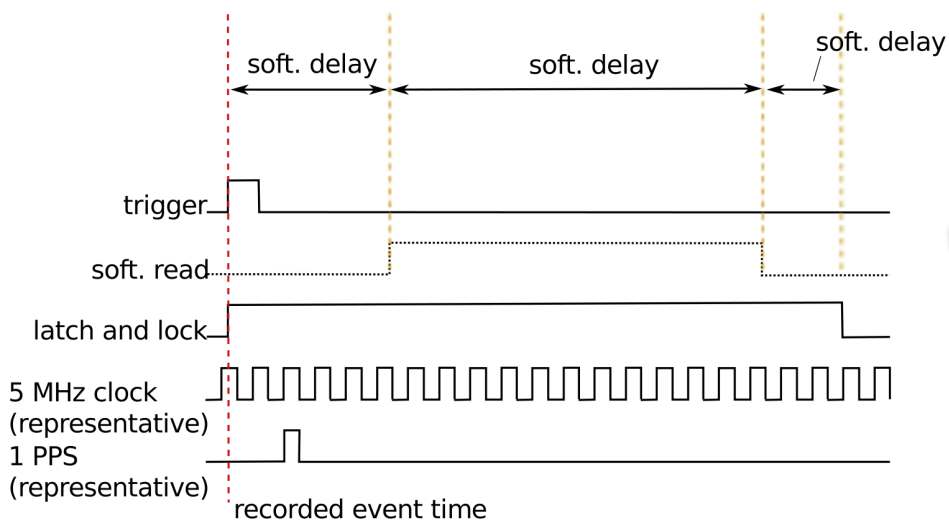
Neutron Benchmarking Working Group: Coincident Timing

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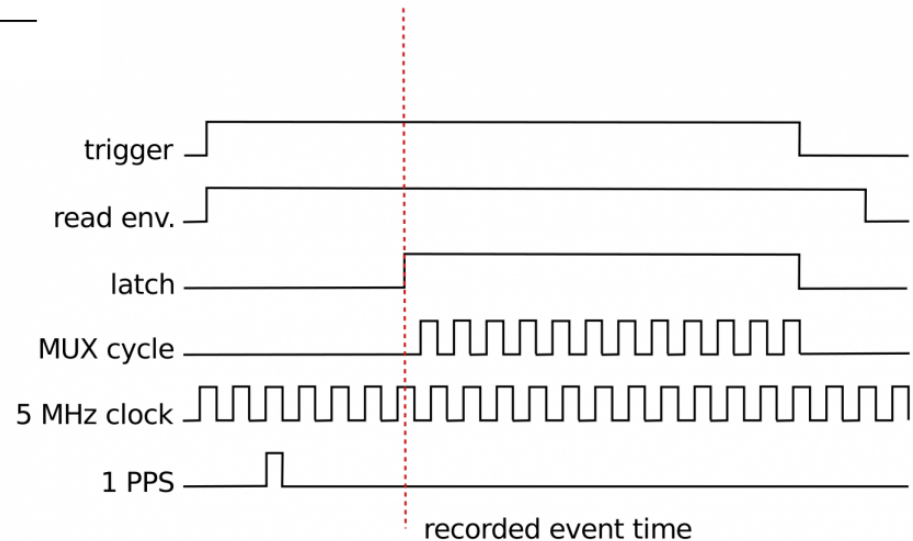
Timing Logistics



NMM

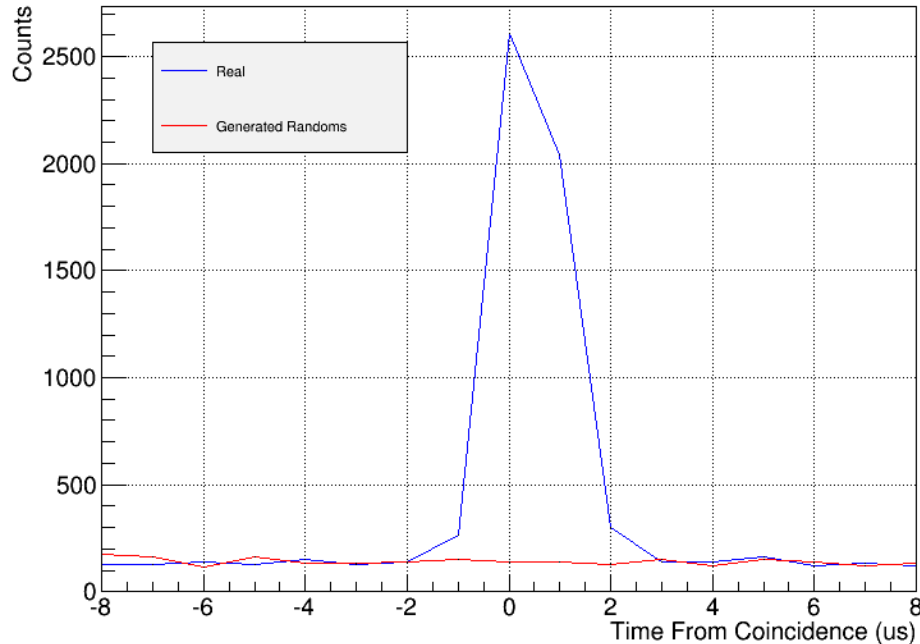
- Software/hardware upgrades completed spring
- NMM full timing readout into its data stream
- DAQ code maintained in GIT repository

Soudan Veto



Coincident Muon Runs

Time between NW and NMM triggers. 07/24/13 - 07/29/13



- See clear veto-nmm coincident peak during muon running
- $\pm 2 \mu\text{s}$ resolution
- About the right number of coincident triggers ~ 300 triggers per 6 hour run

Further Work

- See details of setup in the LRT 2013 proceedings:
<https://zzz.physics.umn.edu/lowrad/nmm/lrtproceedings>
- Currently running 1-month-long fast-neutron coincident search
- Oct 5. have a workshop for analyzers of coincident data
- More analyzers welcome, contact Anthony, Ray, Prisca if you have an interested student, **there is a lot of data to go through that all has interesting/useful aspects**