

My understanding of what's going on:

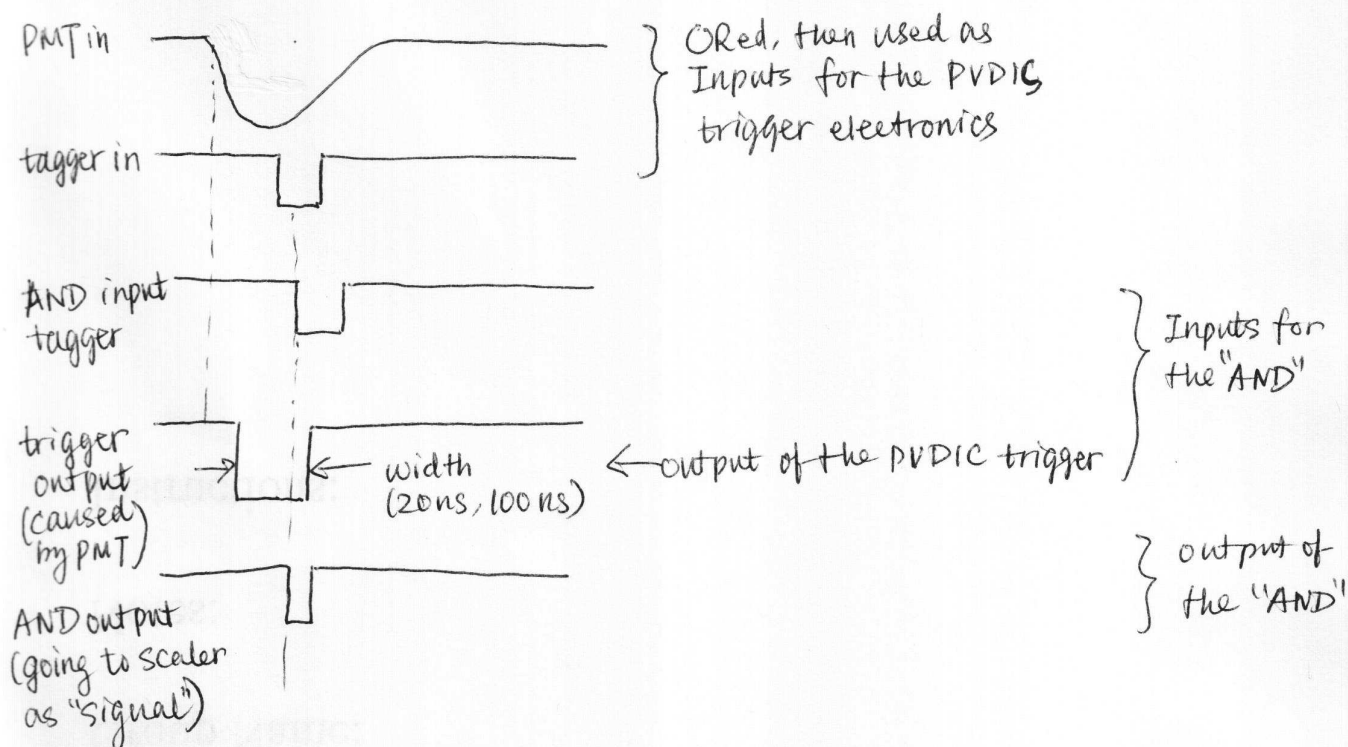
- Main goal is to measure how much signal will be lost

Loss: case #1:

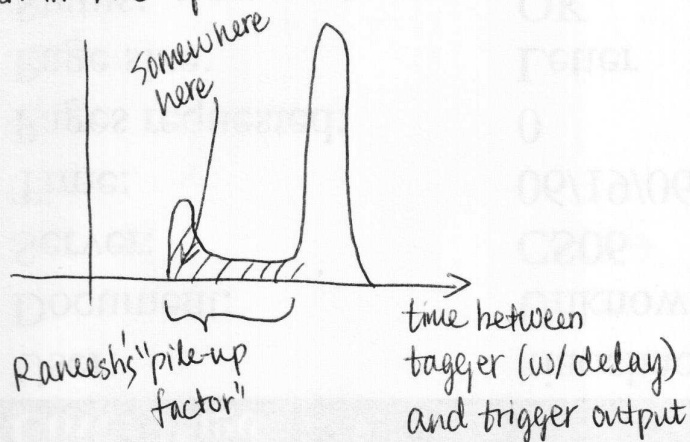
* tagger comes right after a PMT signal, but the "AND" of the tagger and the trigger output overlap.

* outcome: no loss in "signal/tagger"

show up as a tail in the TDC spectrum



Result in TDC spectrum:



"pile-up" factor depends on:

- ① trigger path width
- ② how the trigger output is aligned (in time) w.r.t. tagger AND input.

For real experimental running, the 2nd PMT pulse coming at the same timing as the (pulser) tagger here will be lost.