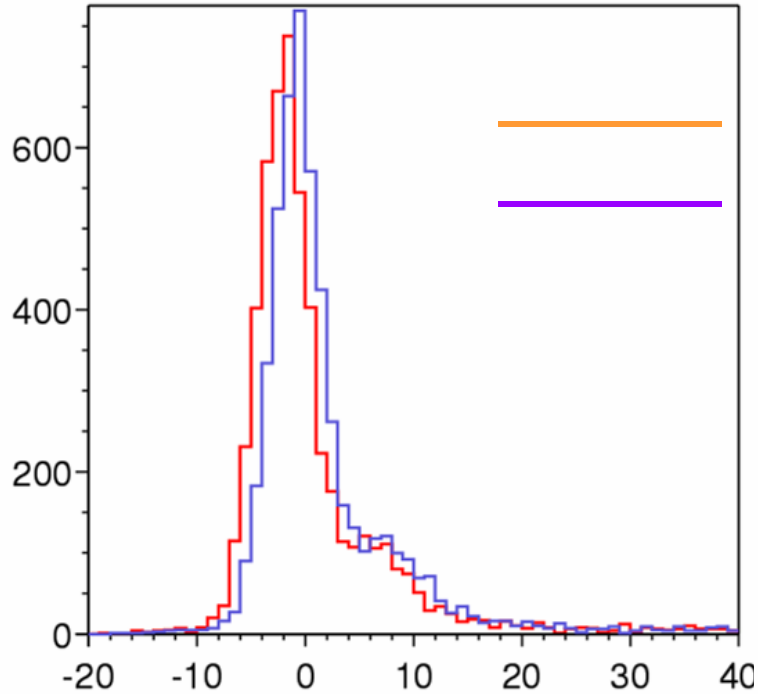
Either

- *L2 muon SLIC-stubs output times (= Inputs to pre-processors)*
- *L2 muon pre-processor output times (= Inputs to L2 Global)*

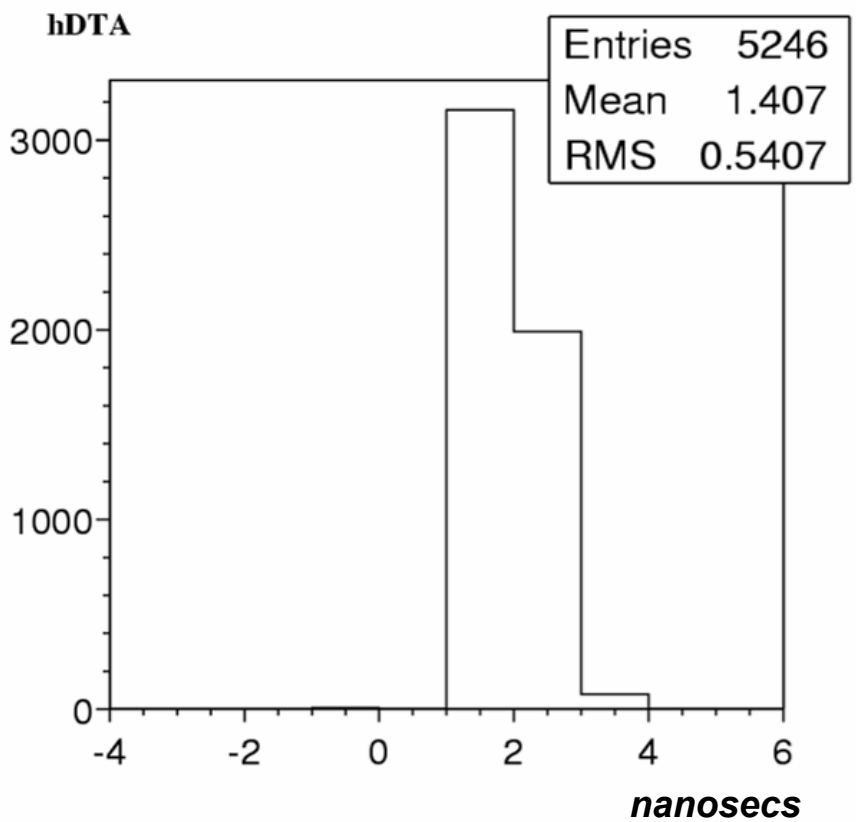
Package	Source	Path	Result
reco TMB	L3 – RDC	all through to MuoCandidate	T
TrigSim	L3 – RDC	simulated SLIC->BETA->	T
"TrigSim" ***(no algorithms)***	L2 – RDC	real online SLIC->BETA->	T – dt
Examine	L2 – RDC	real online SLIC->BETA->	T – dt
reco TMB	L2 – RDC	l1l2_evt/	T – dt

TrigSim running on Real Data
Exact same L2mu code runs Sim & Online

L2mu Inputs to L2-Global



DTA = TrigSim(L3 rdc) – Online(L2 rdc)



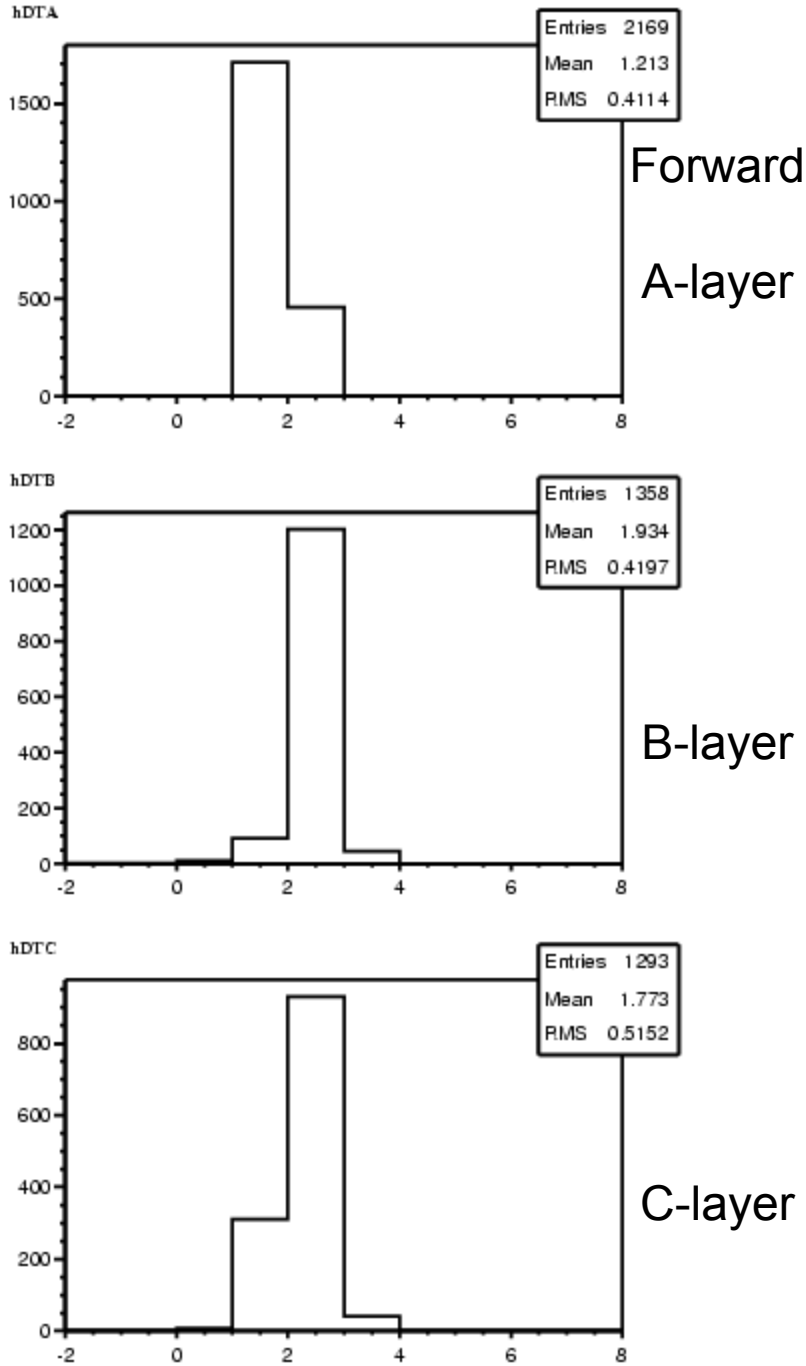
- Only hit absence makes
  T_sim = T_online
- the pattern is identical, central or forward
- TrigSim data conversion L3 -> L2 is channel-indept and works for all other vars.

DTA = TrigSim(L3 rdc) – Online(L2 rdc)

- Next : attempt an indept crosscheck on hardware inputs (?)

- Proposal for Trig-V14 :

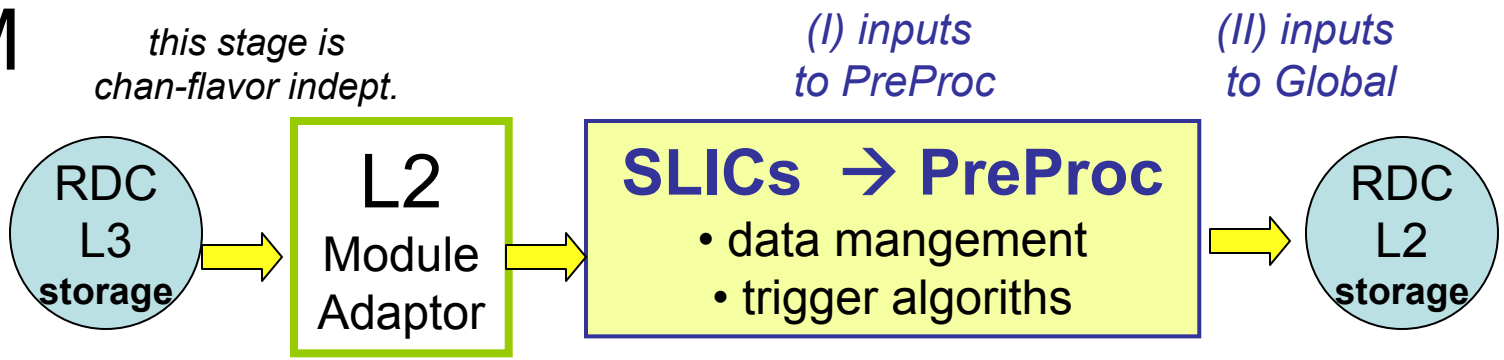
  -- software tuning (2ns) the L2mu inputs to L2-Global.



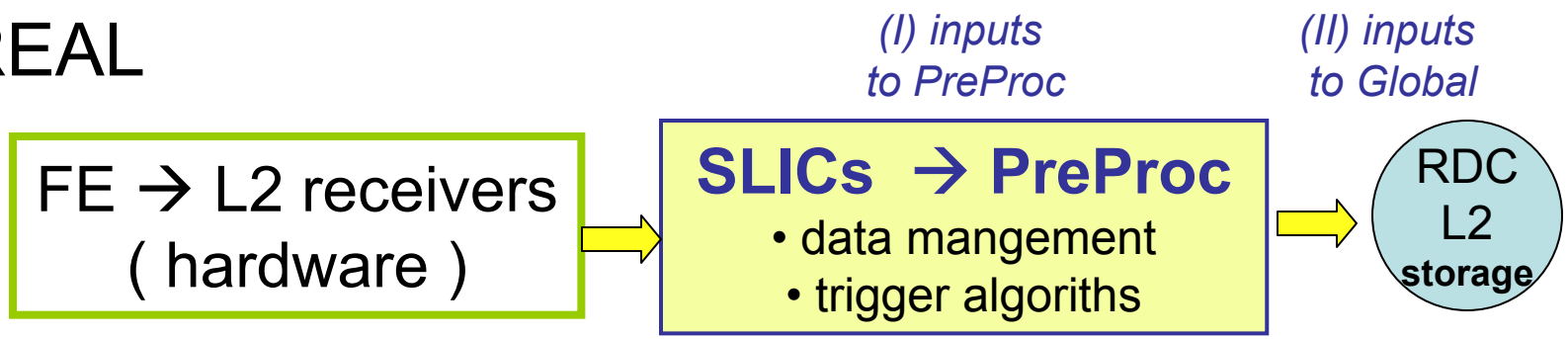
TrigSim Usage

(thanks Christos)

SIM



REAL



- last two stages can be directly compared: stubs(25K) and L2mu candidates.
- stub-by-stub, all kinem&quality vars, #of hits used etc OK, except time values.

Conclusions

- The discrepancy is Times – specific
- It is outside the domain of L2-specific algorithms or data management
- It is upstream the “common media” for all L2 channels (upstream the L2 patch panel)
- It represents a shift, but not a significant dispersion in the times distributions