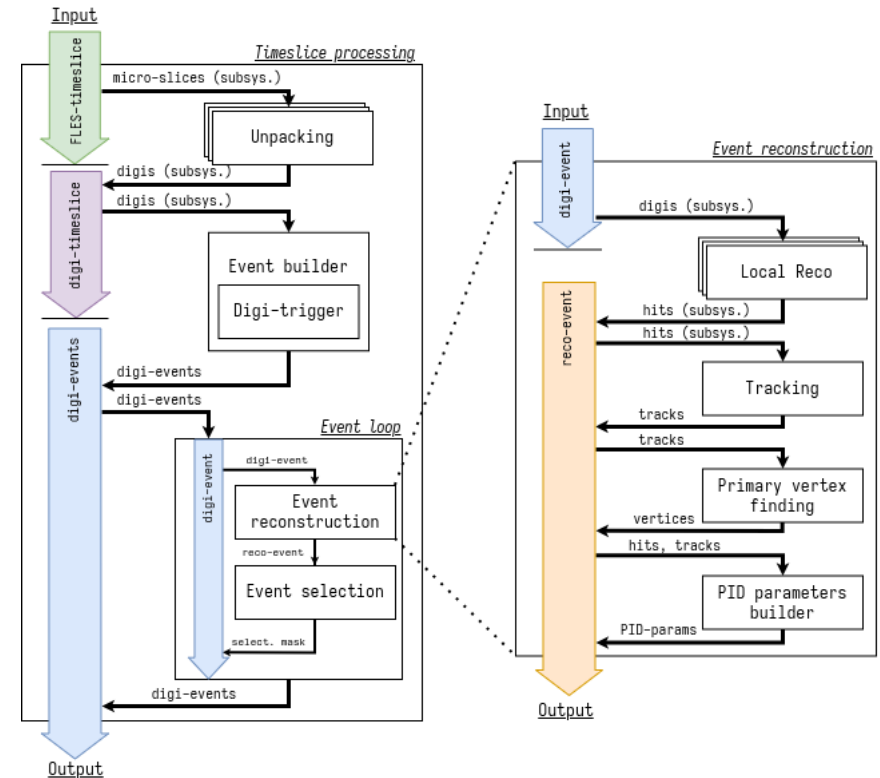


VT26 DC summary: event reconstruction and selection

- First DC with CPU-parallel event reconstruction
- Local reco: STS, TOF
- Global reco: tracking, PV-finding, PID-parameter building
- Event selection: KFP-selector
 - Lambda + Ks0, Xi-, Omega-
 - primitive TOF PID (T0 from primary vertex)
- 32 threads per process:
 - ev.reconstruction: 5.7 s/TS
 - KFP-selector: 0.11 s/TS
 - Total: 5.9 s/TS



VT26 DC summary: event reconstruction and selection

Open issues

- Low reconstruction efficiency for decay selection:
 - **no precise T0 reconstruction** (time in primary vertex is used)
 - **primitive PID** (“banana”-cuts in m^2 -p/q histogram)
- (partial/full) misunderstanding of the efficiencies of the reconstruction algorithms

VT26 DC summary: event reconstruction and selection

Missing features

- Algorithm validation using MC-truth:
 - needed for understanding of the algorithm efficiencies
 - requires propagation of links to the source data (digis in digi-events → digis in TS, hits → digis)
 - requires **event-building task** (which wraps the ALGO event builder) and the **MC-event matching task**
 - requires **ALGO data matching task**