

L3 Muon Progress Report

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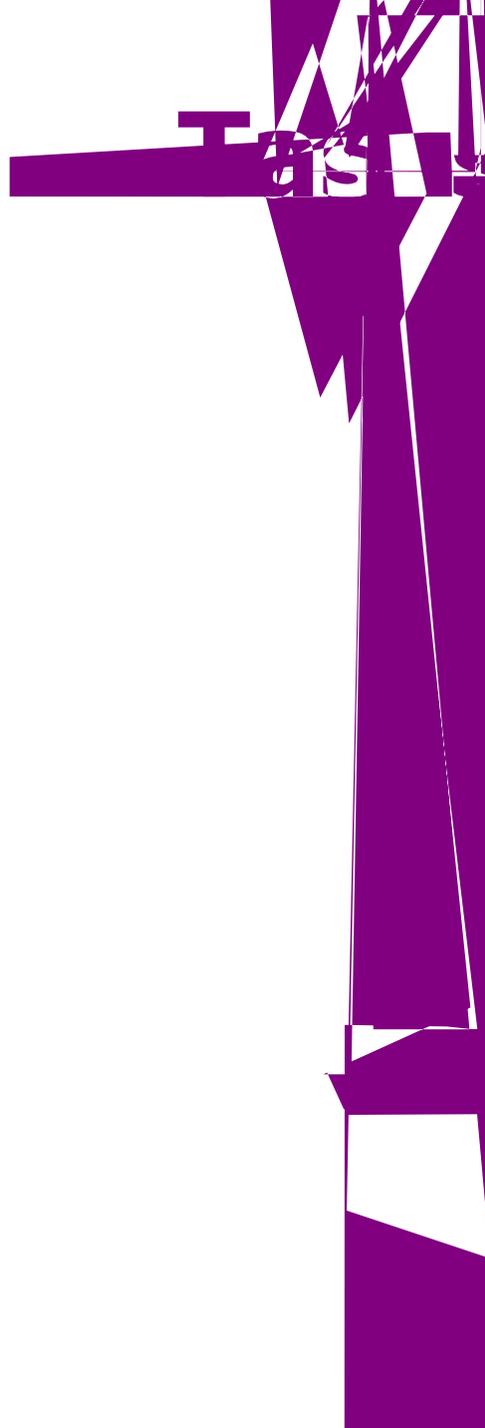
July 25, 2001

Outline

- **General L3 overview**
- **L3 Muon**
- **Brief status**

General L3 overview

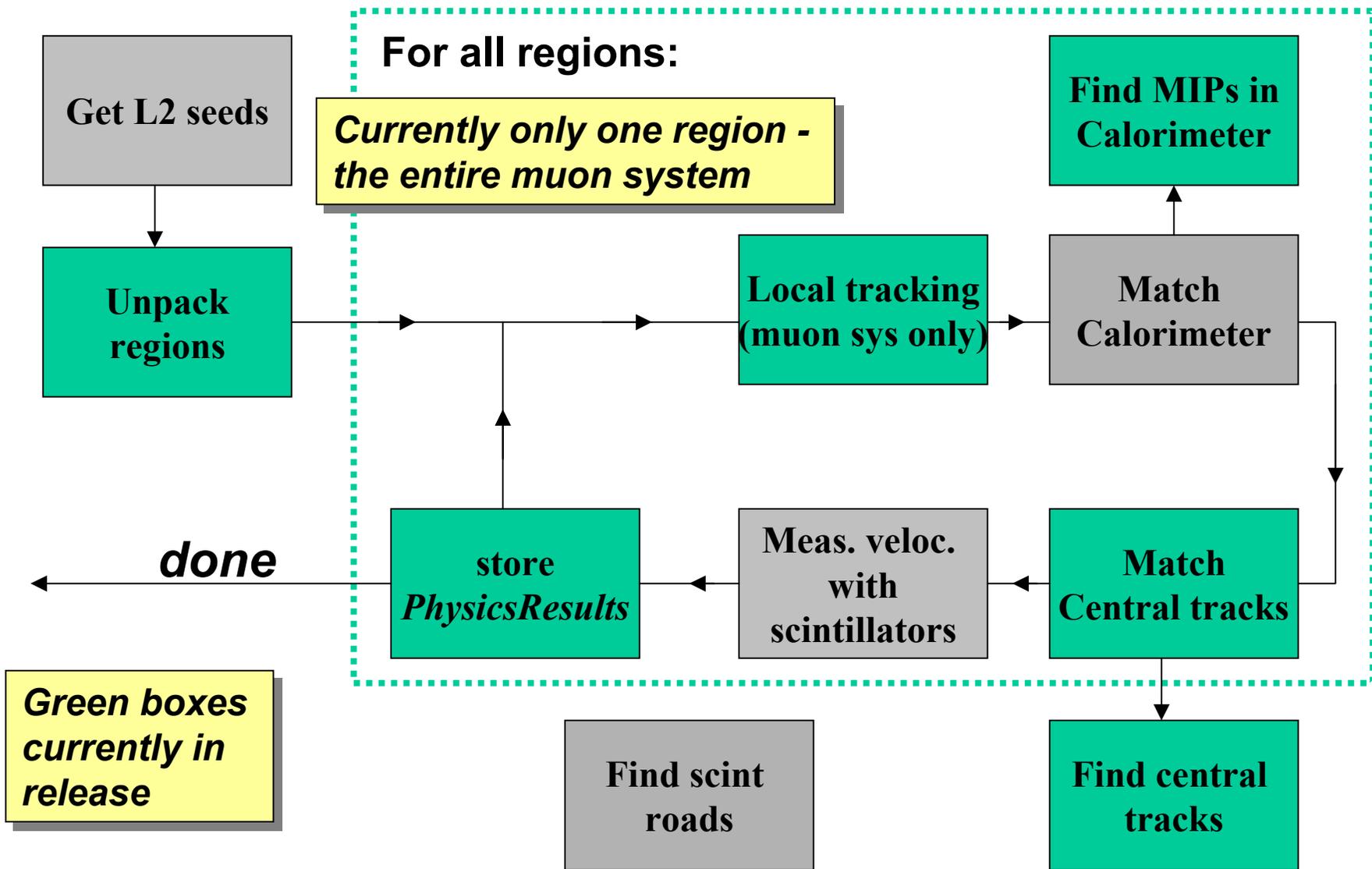
- Nominally 1000 Hz in, 50 Hz out
 - Right now ~10 Hz in- to increase to 100-200 Hz in a 1-4 weeks (and 50 Hz out)
- One node processes one event
 - tools do reconstruction
 - filters make trigger decisions (after obtaining results from tools)
 - ScriptRunner is the program running the filters
- Time budget: 100 ms/event
 - GHz class processors running Linux (probably)



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L3 Muon Tasks



Tool status 1/2

- Unpacking
 - regional unpacking not implemented, but time-gain minimal (total execution time ~ 3 ms/evt)
- Local tracking
 - running online, algorithms still being studied (Saclay)
- Central track matching
 - working on verification, few weeks...

Tool status 2/2

- Calorimeter matching
 - MIP finding in calorimeter done (Leggett)
 - Interface to local tracks being implemented (Gruenewald)
 - Then studies...
- Velocity tool (aka Scintillator tool)
 - no manpower assigned

Filter status

- Some debugging filters available
 - unpacking, local tracks
- And L3FMuon
 - only examining local tracks now
 - but has access to central track matches as well
 - filter parameters: min_pT and min_nsegs
 - used for running online starting this? next? week

Concl