

File raw SubRUN_SubrunID_GEMROC_gemrocid_TM.dat
In the folder /data/raw_dat/RunID

Loop on all data strings

Read pattern

Header pattern: **extract**
Local_L1_count
Local_L1_timestamp
Save also
2 previous Local_L1_timestamps
and 1 previous Local_L1_count

Data pattern: **extract**
L1ts_min_tcoarse
tiger_id
channel_id
tac_id
Ecoarse
Tcoarse
Efine
Tfine
last_tiger_framenumber

Trailer pattern: **extract**
gemrocid

Check L1ts_min_tcoarse: the first time in which it is not $1299 < l1ts_min_tcoarse < 1567$
Or $l1ts_min_tcoarse < -63670$
All the following data from tiger_id > 3 are assigned to a **new_count** = local_l1_count - 1

Check for spurious hit: 10b
Ecoarse is compared to 10b
Tcoarse : the difference is kept for further studies and shall be always the same within 1 clock hit

A tree with a hit per each entry is stored: new local_l1_count shall be used for further studies

File saved in Sub_RUN_dec_SubrunID.root
In the folder /data/raw_root/RunID