

File decoded Sub_RUN_dec_SubrunID.root
in the folder data/raw_root/RunID



Loop on the hits

Read:
GemROC ID
FEB ID
Channel
TO:

Extract:
strip value
chip ID
FEB_label
from file mapping_IHEP.root

Extract:
QDC calibration values
from file QDCcalib.root

Extract:
TDC calibration values
from file TDCcalib.root

Assign to the hit:
strip
chip
FEB_label

Assign to the hit:
IF(charge_SH_uncal >= 1008)
charge_SH = ((-1*constant)-(1024-charge_SH_uncal))/slope;
ELSE
charge_SH = (-1 * constant + charge_SH_uncal) / slope;

Assign to the hit:

TDCcons_Tbin = 6.25 / (Tac_Tfine_max - Tac_Tfine_min);
TDCcons_Ebin = 6.25 / (Tac_Efine_max - Tac_Efine_min);
tfine = (tfine_uncal - TDCcons_Tmin)*TDCcons_Tbin
efine = (efine_uncal - TDCcons_Emin) * TDCcons_Ebin



File saved in Sub_RUN_ana_SubrunID.root
in the folder data/raw_root/RunID