

scf_ctrl.idl

high_cut high cut for central strip, set to 6 sigma

testTolerance set to 20%

sdm_calib_db.idl

id_strip

n_pedestal

n_sigma

sls_strip.idl spa_strip

id number 1->nok

id_strip full address (wafer+ladder etc)

id_cluster useless ?

adc_count in e- (in ADC count after scf)

noise_count empty after sls (filled after spa)
useless here since scf picks noise in
sdm_calib_par.idl

id_hits vect -> geant hits if one strip belongs
to several hits

N_hits # of hits a strip belongs to
redundant with adc_count

de key to montecarlo hit
-> used for the evaluation
but redundant with id_hits

id_mchit

id_mctrack

sls_ctrl.idl

NElectronInAMip in e-

ADCDynamics in MIPS

A128Dynamics in MIPS

NBitEncoding number of ADC bit for encoding

NStripInACluster

PairCreationEnergy in GeV

ParDiffP

ParDiffN

ParIndRightP

ParIndRightN

ParIndLeftP

ParIndLeftN

DAQCutValue set to 3 sigma

sdm_geom_par.idl

N_layer SSD layer number

N_ladder Nbr of ladders per layer

N_waf_per_ladder Nbr of wafers per ladder

N_alice_per_side Nbr of alice128C per wafer side

N_strip_per_side Nbr of strips per wafer side

L_strip_pitch strip pitch

L_stereo_angle half stereo angle

L_wafer_tot_l half wafer total length

L_wafer_tot_w half wafer total width

L_wafer_tot_t half wafer total thickness

L_wafer_act_l half wafer active length

L_wafer_act_w half wafer active width

scf

StScfBarrel

StScfWafer

StScfListStrip

StScfListCluster

setScfParameters
* geom_par

readStripFromTable
-> *spa_strip

addStrip

addNewStrip

sortListStrip

sortStrip

readNoiseFromTable
-> *sls_ctrl
-> *noise

setSigma

doClusterisation

doFindCluster

doClusterSplitting

addNewCluster

splitCluster

sortCluster

StScfStrip
new Strip

StScfCluster
new Cluster

doSideClusterisation
-> *sls_ctrl
-> *scf_ctrl

sortListCluster

WriteClusterToTable

U_pos_CoG
U_pos_first_strip ?
add position u of the cluster
COG and u of the first strip

scf_cluster.idl

id cluster index

id_cluster cluster address

first_strip first strip of the cluster

n_strip number of strips

adc_count sum of cluster's strip adc counts

first_adc_count adc count of the first strip

last_adc_count adc count of the last strip

noise_count sum of the strip noises

flag flag (splitted or not)