

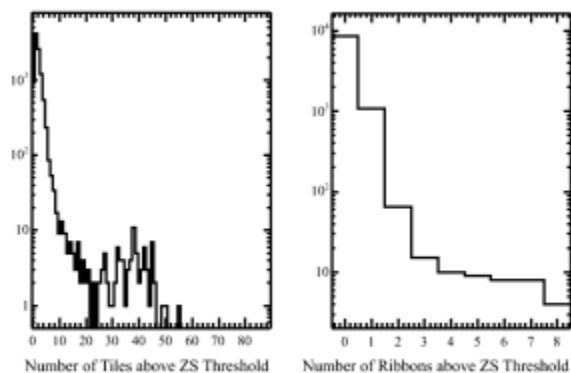
ACD Variables

Merit Tuple Variables

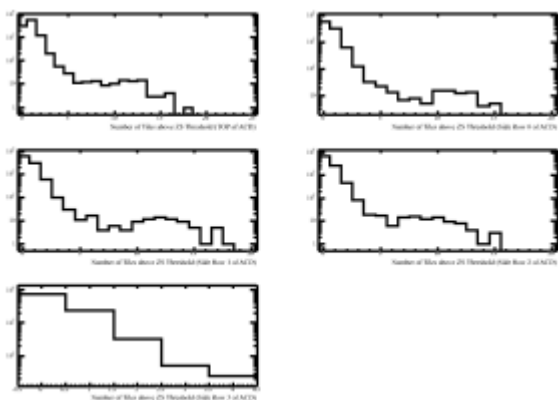
The complete list of merit tuple variables is here: http://glast-ground.slac.stanford.edu/workbook/pages/gleamOvrwv/pr_summaryNtuples.htm

Here are some plots for the most relevant ACD variables:

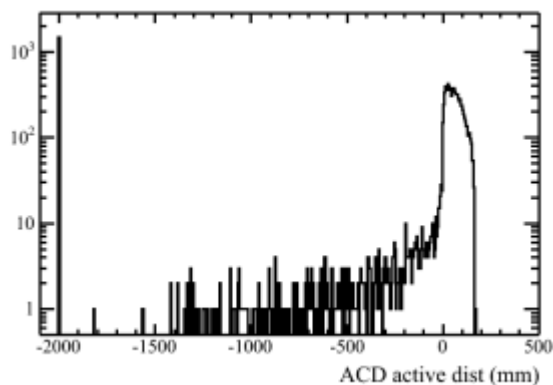
AcdTileCount, AcdRibbonCount: Number of Tiles and Ribbons in the Event



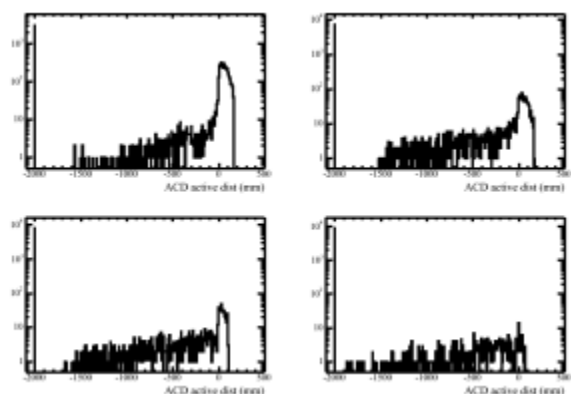
AcdNoTop, AcdNoSideRowX [0-3]: Number of tiles in the event (for the top of the ACD and by row)



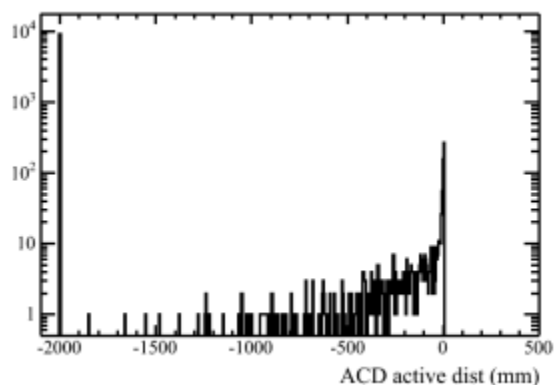
AcdActiveDistance3D: Distance to the closest edge of tile. Positive is inside tile, negative is outside tile.



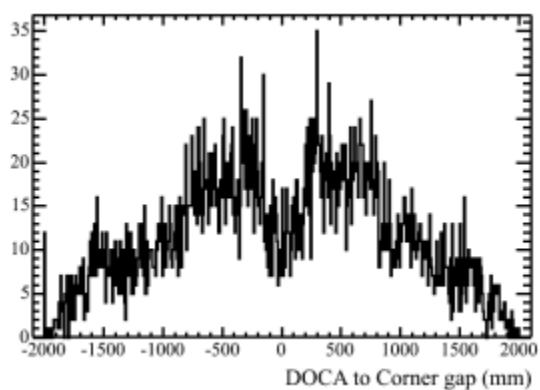
AcActDist3DTop, AcActDist3DSideRowX [0-3]. Best active distance for the top and various side rows of the ACD



AcdRibbonActDist. Best Active distance to an Acd Ribbon



AcdCornerGap: Distance to closest gap along side of ACD, signed to match the direction of the overlap at the corner

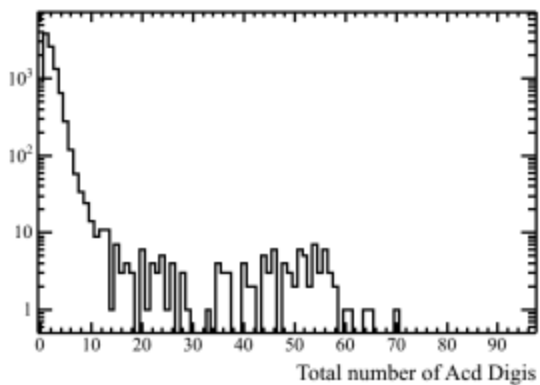


SVAC tuple variables

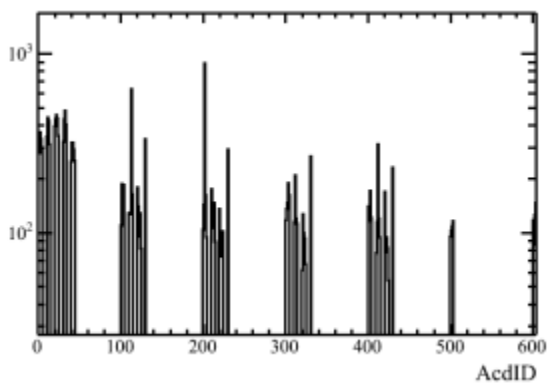
The complete list of svac tuple variables is here: ftp://ftp-glast.slac.stanford.edu/glast.u01/svac_workshop/Svac_ntuple_description/new/html/index.html

Here are some plots for the most relevant ACD variables:

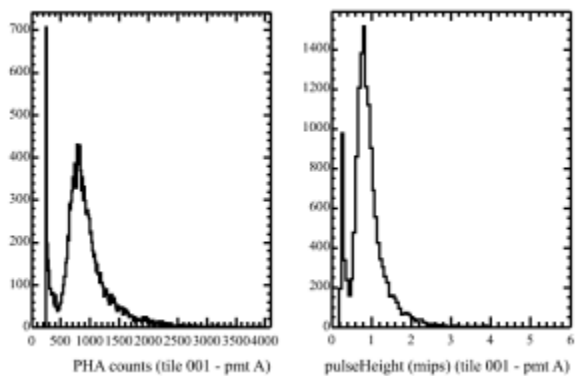
AcNumDigis: Total number of digis in the event (Tiles and Ribbons)



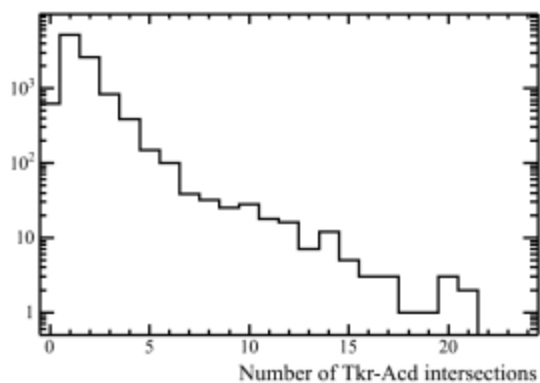
Acd10Ids[10]: Tiles ids of the first (by readout order) 10 digis in the event



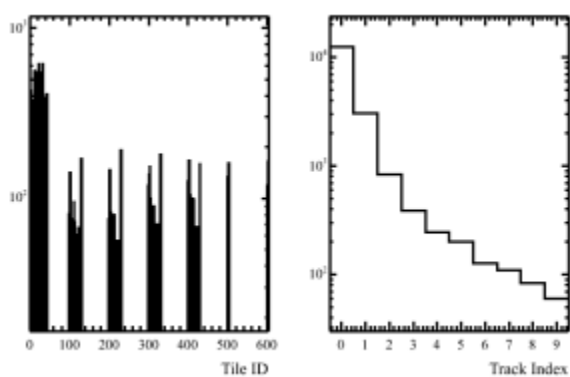
AcdPha[604][2] and AcdMips[604][2]: Pulse Height in pha counts and calibrated to MIPs, by tileid, pmt



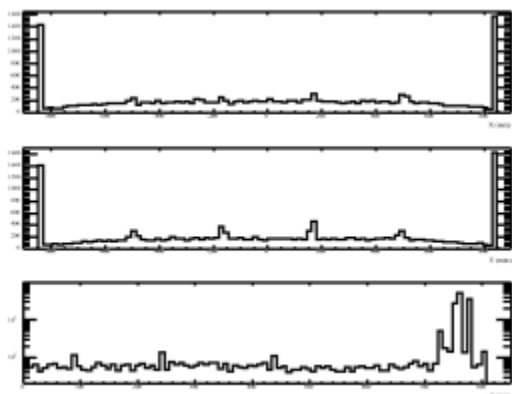
AcdNumTkrIntSec: Number of intersection between tracks and ACD



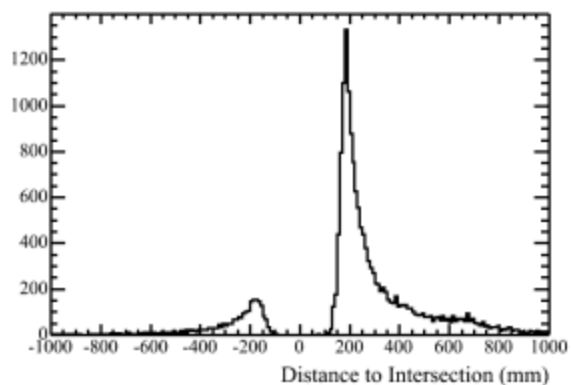
AcdTkrIntSecTkrIndex[20], AcdTkrIntSecTileId[20]: Track Index and Tile id for the first 20 intersections of tracks with the ACD



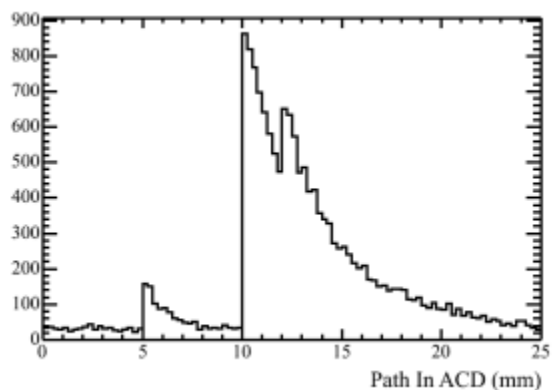
AcdTkrIntSecGlobalX[20] (also Y,Z): Position in global coordinates when the track crosses the ACD



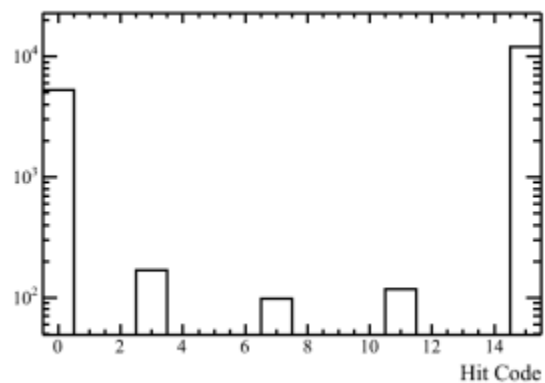
AcdTkrIntSecArcLengthToIntSec[20]: Distance from first (last) hit to the intersection with the ACD. Postivie for up, negative for down



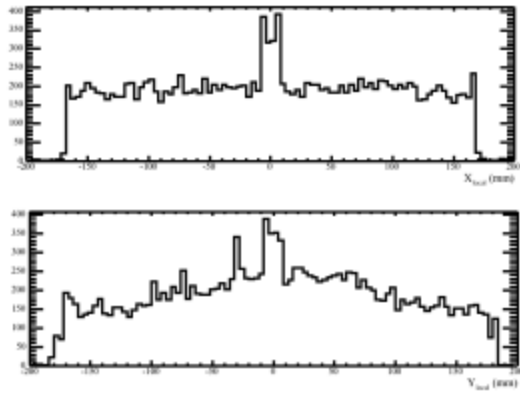
AcdTkrIntSecPathLengthInTile[20]: Distance traveled inside active ACD volume.



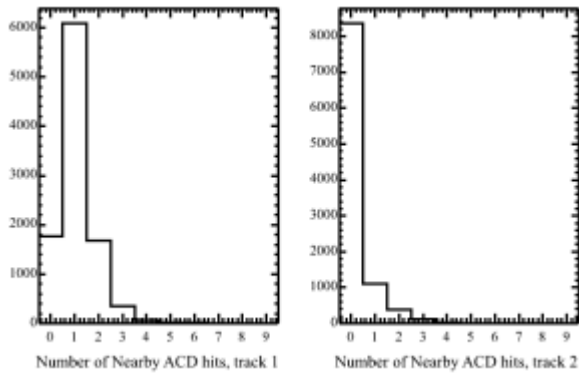
AcdTkrIntSecTileHit[20]: Hit code for tile (CN0B | CN0A | VetoB | VetoA | PHA_B | PHA_B)



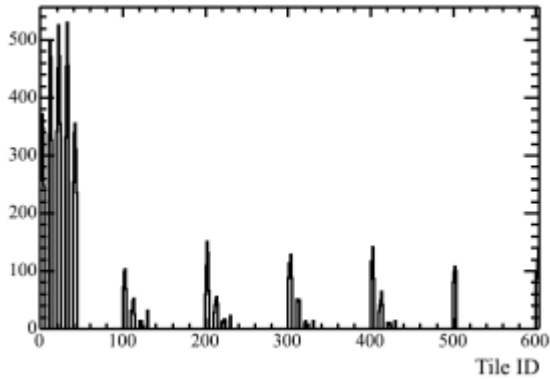
AcdTkrIntSecLocalX[20] (also Y): Position of hit in local coordinates (to Tile Center)



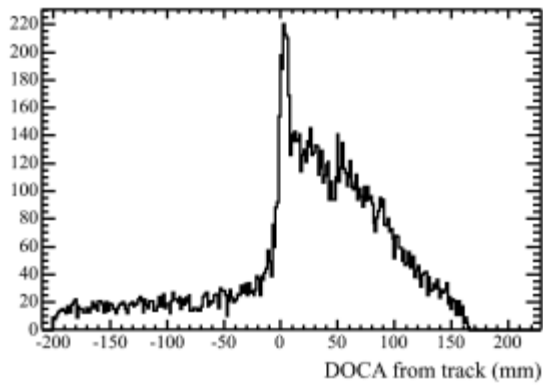
AcdPocaNbrTrack1 (also 2): Number of hit tiles and ribbons within 20cm of track 1 (or 2)



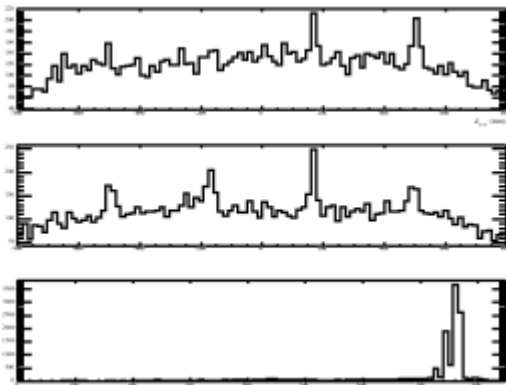
AcdPocaTileID[2][6]: Ids of up to six hit tiles or ribbons that a track passed with 20cm of, sorted by distance



AcdPocaDoca[2][6]: Distance of Closest approach between track and up to 6 tiles / ribbons, sorted by distance



AcidPocaX[2][6] (also Y,Z): Point of closest approach (along track) to hit tile or ribbon, global coordinates



AcidMaxActiveDistId : Acid id of tile with the best (largest) active distance

