Subject: Storage of points, hits, digis, etc...
Posted by Johan Messchendorp on Thu, 18 Dec 2008 21:01:20 GMT
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Dear all,

I added a few methods to the EMC MC, Digi, and reco classes which allow to specify to store points, hits, digis, etc to the TTree or not. The methods are called

PndEmc::SetStorageOfPoints(kTRUE or kFALSE)
PndEmcHitProducer::SetStorageOfHits(...)
PndEmcHitsToWaveforms::SetStorageOfWaves(...)
PndEmcWaveformToDigi::SetStorageOfDigis(...)
....etc, etc....

Furthermore, the storage flag can also be set via the constructors of the corresponding classes. Note that by default all information will be stored to file (as it was so far). The new option is in particular useful to minimize the amount of data. In particular, "points and hits" can really make the files rather large, and are in general not needed to keep till the end. It would be good to enable such an option for all the detectors, digitisation, reconstruction, and analysis methods.

Also note the recent forum message by Mohammad explaining how to do it:

http://forum.gsi.de/index.php?t=tree&goto=7644&rid=981&S=c0f59d0295f29fadd7a2d831843897fd#msg_7644

which provides the option to combine a simulation macro with that of a reco/analysis. Example EMC macros can be found in

pandaroot/trunk/macro/emc/sim_hit_emc.C
pandaroot/trunk/macro/emc/emc_complete.C
pandaroot/trunk/PndTools/mpiTools/macros/emc/emc.C

Kind wishes,

Johan.