
Subject: segmentation fault during digitization (wrong mapper?)
Posted by [Manuel Zambrana](#) on Fri, 21 May 2010 16:24:11 GMT
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Dear all,

after a successful simulation test, we have tried digitization. We have used "case 17" for the emc geometry and we get segmentation fault when we have particles in the forward direction. We think it is a problem related to the mapper of the forward endcap or shashlyk. We used BoxGenerator and shoot photons in different directions. When we shoot in the backward region(no hits in forward endcap or shashlyk calorimeter) there is no error. When we shoot in the forward region we get the error.

Could anybody take a look to test, and eventually fix, the mapper used by the latest emc geometry?

Thank you very much.

cheers,
manuel

ps. this is an example of the message we get in the log file when problems are found:

```
=====
#5 0x00007f87c6aba0aa in PndEmcTwoCoordIndex::XCoord (this=0x0)
   at /home/zambrana/work/software/trunk/emc/EmcTools/PndEmcTwoCoordIndex.h:59
#6 0x00007f87c6ab9c0a in PndEmcDigi (this=0xd97b0a0, trackid=0, id=509000021,
energy=0.00731491204, time=18,
   hitIndex=109) at /home/zambrana/work/software/trunk/emc/EmcData/PndEmcDigi.cxx:54
#7 0x00007f87c6ad7cd6 in PndEmcWaveformToDigi::Exec (this=0x1862ee0,
opt=0x7f87c88d9290 "")
   at /home/zambrana/work/software/trunk/emc/EmcDigi/PndEmcWaveformToDigi.cxx: 133
#8 0x00007f87d3b86f90 in TTask::ExecuteTasks ()
   from /local/raid0/work/khaneftd/fairsoft/tools/root/lib/libCore.so.5.26
#9 0x00007f87d3b862cb in TTask::ExecuteTask ()
   from /local/raid0/work/khaneftd/fairsoft/tools/root/lib/libCore.so.5.26
#10 0x00007f87c8849537 in FairRunAna::Run (this=0x78de10, Ev_start=0, Ev_end=10)
   at /home/zambrana/work/software/trunk/base/FairRunAna.cxx:271
=====
```