
Subject: Emc digi crashes

Posted by [Ralf Kliemt](#) on Mon, 19 Jan 2009 16:29:39 GMT

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Hi everyone,

I took the snapshot of the emc codes from rev.4383 to find it broken.

the gdb output gives:

Toggle Spoiler

PndEmcMakeCluster, event: 27

EMC header: fired crystals= 58, digi= 46, Total energy= 1.69417 [GeV], Reconstructed clusters= 15, Total energy in clusters= 1.69653 [GeV]

***** PndEmcMakeBump, event: 27 *****

Digi at (52, 134) was a local max. Energy = 0.210923

Digi at (69, 33) was a local max. Energy = 0.157716

Digi at (71, 32) was a local max. Energy = 0.087623

Program received signal SIGSEGV, Segmentation fault.

[Switching to Thread -1229224240 (LWP 27606)]

0x00000000 in ?? ()

(gdb) bt

#0 0x00000000 in ?? ()

#1 0xb3c83b06 in PndEmcExpClusterSplitter::splitCluster (this=0x10485dc0, theMaximaDigis=@0xbff276f4, theCluster=0x10ad6800, clusterIndex=8, theBumpList=@0xbff2770c) at

/home/ralfk/Pandaroot/pandaroot/emc/EmcReco/PndEmcExpClusterSplitter.cxx :286

#2 0xb3c8037e in PndEmcMakeBump::Exec (this=0x89f74d8, opt=0xb407bff4 "")

at /home/ralfk/Pandaroot/pandaroot/emc/EmcReco/PndEmcMakeBump.cxx:183

#3 0xb79326d7 in TTask::ExecuteTasks (this=0x86c5820, option=0xb407bff4 "") at core/base/src/TTask.cxx:298

#4 0xb7932953 in TTask::ExecuteTask (this=0x86c5820, option=0xb407bff4 "") at core/base/src/TTask.cxx:261

#5 0xb3ffee22 in CbmRunAna::Run (this=0x86c5788, Ev_start=0, Ev_end=1000) at /home/ralfk/Pandaroot/pandaroot/base/CbmRunAna.cxx:195

#6 0xb4043ad6 in G__CbmDict_531_0_5 (result7=0xbff2f148, funcname=0x86c3988 "\001", libp=0xbff28d04, hash=0)

at /home/ralfk/Pandaroot/build/base/CbmDict.cxx:9268

#7 0xb7082dd3 in Cint::G__ExceptionWrapper (funcp=0xb40439de <G__CbmDict_531_0_5>, result7=0xbff2f148, funcname=0x86c3988 "\001",

libp=0xbff28d04, hash=0) at cint/cint/src/Api.cxx:364

#8 0xb7163cb7 in G__execute_call (result7=0xbff2f148, libp=0xbff28d04, ifunc=0x86c3988, ifn=0) at cint/cint/src/newlink.cxx:2305

#9 0xb7169382 in G__call_cppfunc (result7=0xbff2f148, libp=0xbff28d04, ifunc=0x86c3988, ifn=0) at cint/cint/src/newlink.cxx:2471

#10 0xb71282b9 in G__interpret_func (result7=0xbff2f148, funcname=0xbff2eb48 "Run", libp=0xbff28d04, hash=309, p_ifunc=0x86c3988,

funcmatch=1, memfunc_flag=1) at cint/cint/src/ifunc.cxx:5245

#11 0xb7116b52 in G__getfunction (item=0xbff339d6 "Run(0,nEvents)", known3=0xbff31e0c, memfunc_flag=1) at cint/cint/src/func.cxx:2534

#12 0xb7210836 in G__getstructmem (store_var_type=112, varname=0xbff3102c "timer", membername=0xbff339d6 "Run(0,nEvents)",

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tagname=0xbff3122c "fRun", known2=0xbff31e0c, varglobal=0xb72d4d00, objptr=2) at
cint/cint/src/var.cxx:6623
#13 0xb7201088 in G__getvariable (item=0xbff339d0 "fRun->Run(0,nEvents)",
known=0xbff31e0c, varglobal=0xb72d4d00, varlocal=0x0)
  at cint/cint/src/var.cxx:5252
#14 0xb70e264c in G__getitem (item=0xbff339d0 "fRun->Run(0,nEvents)") at
cint/cint/src/expr.cxx:1884
#15 0xb70f64d8 in G__getexpr (expression=0xbff34078 "fRun->Run(0,nEvents)") at
cint/cint/src/expr.cxx:1470
#16 0xb717bbdb in G__exec_function (statement=0xbff34078 "fRun->Run(0,nEvents)",
pc=0xbff3476c, piout=0xbff34768, plargestep=0xbff34760,
  presult=0xbff34718) at cint/cint/src/parse.cxx:601
#17 0xb7183166 in G__exec_statement (mparen=0xbff3ba28) at cint/cint/src/parse.cxx:6972
#18 0xb70caf0b in G__exec_tempfile_core (file=0xbff3db24
"/home/ralfk/Pandaroot/pandaroot/macro/Ralf/PhiPhi/./digireco.C", fp=0x0)
  at cint/cint/src/debug.cxx:251
#19 0xb70cb26f in G__exec_tempfile (file=0xbff3db24
"/home/ralfk/Pandaroot/pandaroot/macro/Ralf/PhiPhi/./digireco.C")
  at cint/cint/src/debug.cxx:798
#20 0xb7195ceb in G__process_cmd (line=0xb7e9c0af "", prompt=0x80e23a4 "",
more=0x80e239c, err=0xbff3ea08, rslt=0xbff3e9d4)
  at cint/cint/src/pause.cxx:3074
#21 0xb79a8445 in TCint::ProcessLine (this=0x80e2380, line=0xb7e9c0af "",
error=0xbff4119c) at core/meta/src/TCint.cxx:339
#22 0xb799fdff in TCint::ProcessLineSynch (this=0x80e2380, line=0xb7e9c0af "",
error=0xbff4119c) at core/meta/src/TCint.cxx:406
#23 0xb78b1616 in TApplication::ExecuteFile (file=0xbff3f161 "digireco.C", error=0xbff4119c)
at core/base/src/TApplication.cxx:936
#24 0xb78b17e8 in TApplication::ProcessFile (this=0x81035b0, file=0xbff3f161 "digireco.C",
error=0xbff4119c)
  at core/base/src/TApplication.cxx:825
#25 0xb78b3def in TApplication::ProcessLine (this=0x81035b0, line=0xbff3f15e ".x digireco.C",
sync=false, err=0xbff4119c)
  at core/base/src/TApplication.cxx:798
#26 0xb6e86848 in TRint::Run (this=0x81035b0, retrn=false) at core/rint/src/TRint.cxx:355
#27 0x08048e69 in main (argc=1, argv=0xbff412b4) at main/src/rmain.cxx:29

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As it turns out the "cosmetic" changes removed some skin...

Although I went to rev. 4314, which does contain the last change on PndEmcExpClusterSplitter, it seems to work (like for Dima and his post). So I think something is deleted outside of the PndEmcExpClusterSplitter class.

Kind greetings from the flu-infected Dresden,
Ralf.