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Subject: problem with optical process in accessing the file  
Posted by [Vanniarajan Suyam Jothi](#) on Fri, 16 Apr 2010 08:34:38 GMT  
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Hello all,

I was switching on the emStandard+optical process in the Geant4.  
And then, I was accessing the file using a simple script below

```
TFile f("sim_emc.root","READ");

TTree *t=(TTree *) f.Get("cbmsim");

TClonesArray* track_array=new TClonesArray("TGeoTrack");
t->SetBranchAddress("GeoTracks",&track_array);

if (t) cout<<"here is t" <<endl;

cout<< t->GetEntriesFast()<<endl;
for(int i = 0; i < t->GetEntriesFast() ; i++)
{
  cout << "Before " << i << endl;
  t->GetEntry(i);
  cout << "After " << i << endl;
}
```

And I got the Error below.

I do not get this error  
when I do simulation with default hadron physics list.  
I am not sure if it is already known problem, can anybody help me?

here is t

10

Before 0

After 0

Before 1

```
*** glibc detected *** /home/vanni/fairJan10/tools/root/bin/root.exe: double free or corruption
(!prev): 0x08e0a320 ***
```

```
===== Backtrace: =====
```

```
/lib/tls/i686/cmov/libc.so.6[0xb6d8aa85]
```

```
/lib/tls/i686/cmov/libc.so.6(cfree+0x90)[0xb6d8e4f0]
```

```
/usr/lib/libstdc++.so.6(_ZdlPv+0x21)[0xb6f6db11]
```

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(_ZN8TStorage13ObjectDealocEPv+0x64)[0xb796be84]
```

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(_ZN7TObjectdIEPv+0x 27)[0xb7949e07]
```

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(_ZN7TObjectD0Ev+0x6 8)[0xb794a728]
```

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26[0xb7b35de1]
```

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(_ZN6TClass10DestructorEPvb+0x41)[0xb79c6391]
```

/home/vanni/fairJan10/tools/root/lib/libRIO.so(\_ZN11TBufferFile13ReadFas  
tArrayEPPvPK6TClassibP15TMemberStreamerS4\_+0xf9)[0xb6b10379]  
/home/vanni/fairJan10/tools/root/lib/libRIO.so(\_ZN13TStreamerInfo10ReadB  
ufferlPPcEEiR7TBufferRKT\_iiii+0x3b37)[0xb6bd45e7]  
/home/vanni/fairJan10/tools/root/lib/libRIO.so(\_ZN13TStreamerInfo16ReadB  
ufferClonesER7TBufferP12TClonesArrayiii+0x61)[0xb6b5ba71]  
/home/vanni/fairJan10/tools/root/lib/libTree.so(\_ZN14TBranchElement10Rea  
dLeavesER7TBuffer+0x6bc)[0xb5894b1c]  
/home/vanni/fairJan10/tools/root/lib/libTree.so(\_ZN7TBranch8GetEntryExi+  
0x1ce)[0xb588909e]  
/home/vanni/fairJan10/tools/root/lib/libTree.so(\_ZN14TBranchElement8GetE  
ntryExi+0x1b8)[0xb588f308]  
/home/vanni/fairJan10/tools/root/lib/libTree.so(\_ZN14TBranchElement8GetE  
ntryExi+0x13a)[0xb588f28a]  
/home/vanni/fairJan10/tools/root/lib/libTree.so(\_ZN5TTree8GetEntryExi+0x ba)[0xb58e5a6a]  
/home/vanni/fairJan10/tools/root/lib/libTree.so[0xb59657d4]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(\_ZN4Cint19G\_\_Except  
ionWrapperEPFiP8G\_\_valuePKcP8G\_\_paramiES1\_PcS5\_i+0x65)[0xb721f655]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_exec\_asm+0x4801) [0xb7233571]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26[0xb731110f]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_exec\_statement+0  
x883c)[0xb730b79c]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_interpret\_func+0 x383e)[0xb72b11ee]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_getfunction+0x21 7f)[0xb729b6ff]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_getitem+0x62d)[0 x b72704dd]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_getexpr+0x3cc5)[ 0xb7274d65]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_calc\_internal+0x 352)[0xb7281cf2]  
/home/vanni/fairJan10/tools/root/lib/libCint.so.5.26(G\_\_process\_cmd+0x39 87)[0xb73182b7]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN5TCint11ProcessL  
ineEPKcPN12TInterpreter10EErrorCodeE+0x320)[0xb79f9eb0]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN5TCint16ProcessL  
ineSynchEPKcPN12TInterpreter10EErrorCodeE+0x9f)[0xb79f9b6f]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN12TApplication11  
ExecuteFileEPKcPib+0x767)[0xb791c627]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN12TApplication11  
ProcessFileEPKcPib+0x2c)[0xb791cc1c]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN12TApplication11  
ProcessLineEPKcbPi+0x7ce)[0xb7919f5e]  
/home/vanni/fairJan10/tools/root/lib/libRint.so.5.26(\_ZN5TRint15HandleTe  
rmInputEv+0x1e1)[0xb6fd4891]  
/home/vanni/fairJan10/tools/root/lib/libRint.so.5.26(\_ZN17TTermInputHand  
ler6NotifyEv+0x25)[0xb6fd24e5]  
/home/vanni/fairJan10/tools/root/lib/libRint.so.5.26(\_ZN17TTermInputHand  
ler10ReadNotifyEv+0x14)[0xb6fd53c4]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN11TUnixSystem16C  
heckDescriptorsEv+0x175)[0xb7a102c5]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN11TUnixSystem16D  
ispatchOneEventEb+0xef)[0xb7a10d9f]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN7TSystem9InnerLo  
opEv+0x21)[0xb797d3a1]  
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(\_ZN7TSystem3RunEv+0  
x81)[0xb79814d1]

```
/home/vanni/fairJan10/tools/root/lib/libCore.so.5.26(_ZN12TApplication3R
unEb+0x37)[0xb7918157]
/home/vanni/fairJan10/tools/root/lib/libRint.so.5.26(_ZN5TRint3RunEb+0x3 bb)[0xb6fd4e8b]
/home/vanni/fairJan10/tools/root/bin/root.exe(main+0x85)[0x8048eb5]
/lib/tls/i686/cmov/libc.so.6(__libc_start_main+0xe0)[0xb6d35450]
/home/vanni/fairJan10/tools/root/bin/root.exe(__gxx_personality_v0+0x69) [0x8048d61]
===== Memory map: =====
08048000-0804a000 r-xp 00000000 08:11 18063361
```

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Subject: Re: problem with optical process in accessing the file  
Posted by [Mohammad Al-Turany](#) on Wed, 21 Apr 2010 09:16:42 GMT  
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Hi,

I am not able to reproduce this problem, I run the sim\_emc.C (adding the visualization flags) and changing the physics list to emStandard+optical. I am using the svn 8407.

regards

Mohammad

Quote:

Processing test.C...

```
Warning in <TClass::TClass>: no dictionary for class PndTofPoint is available
Warning in <TClass::TClass>: no dictionary for class FairMCPPoint is available
Warning in <TClass::TClass>: no dictionary for class FairBasePoint is available
Warning in <TClass::TClass>: no dictionary for class FairMultiLinkedData is available
Warning in <TClass::TClass>: no dictionary for class FairLinkedData is available
Warning in <TClass::TClass>: no dictionary for class PndMCTrack is available
Warning in <TClass::TClass>: no dictionary for class PndSttPoint is available
Warning in <TClass::TClass>: no dictionary for class PndMvdMCPPoint is available
Warning in <TClass::TClass>: no dictionary for class PndMdtPoint is available
Warning in <TClass::TClass>: no dictionary for class PndDrcBarPoint is available
Warning in <TClass::TClass>: no dictionary for class PndDrcPDPoint is available
Warning in <TClass::TClass>: no dictionary for class PndEmcHit is available
Warning in <TClass::TClass>: no dictionary for class FairHit is available
Warning in <TClass::TClass>: no dictionary for class FairMCEventHeader is available
Warning in <TClass::TClass>: no dictionary for class FairEventHeader is available
Warning in <TClass::TClass>: no dictionary for class FairLink is available
```

here is t

10

Before 0

After 0

Before 1

After 1

Before 2

After 2

Before 3

After 3

Before 4  
After 4  
Before 5  
After 5  
Before 6  
After 6  
Before 7  
After 7  
Before 8  
After 8  
Before 9  
After 9  
root [1]

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Subject: Re: problem with optical process in accessing the file  
Posted by [Vanniarajan Suyam Jothi](#) on Thu, 22 Apr 2010 09:39:50 GMT  
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Hi,

Thank you for trying it.  
I have missed a point here. I was firing  
photon of 200 MeV on electro-magnetic calorimeter.  
I have included the boundary process by  
having values of refractive index for both air and PWO.  
I have included my media file which does that.  
may be with this you must be able to reproduce the error.  
Regards,  
Vanni

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#### File Attachments

1) [MyMediaPnd.geo](#), downloaded 453 times

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