

Hi Florian,

your code snippet indeed fixes the double free crash at the end of the macro. However the lmd uses a special backtracking task, more precisely FairGeane & FairGeaneApplication. I still get the same double free crash report in the geant3 initialization phase (see log below). It crashes in the Geant3 vmc InitMC() function. From the stack trace it looks like that the problem is the same as before, something inside the TGeoManager getting deleted again that was deleted before.

Quote:

```
*** glibc detected *** /software/fairsoft/fairsoft_may16p1_root6/bin/root.exe: double free or corruption (!prev): 0x00000000096bb140 ***
```

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

```
/lib64/libc.so.6(+0x75f4e)[0x2b0192deff4e]  
/lib64/libc.so.6(+0x78cf0)[0x2b0192df2cf0]  
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libCore.so.6.08(_ZN9T  
ObjArray6DeleteEPKc+0x10c)[0x2b0191f5c7ec]  
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libGeom.so.6.08(_ZN11  
TGeoManagerD1Ev+0x29e)[0x2b019fc6501e]  
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libGeom.so.6.08(_ZN11  
TGeoManagerD0Ev+0x9)[0x2b019fc65239]  
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libCore.so.6.08(_ZN5T  
List6DeleteEPKc+0x205)[0x2b0191f55445]  
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libCore.so.6.08(_ZN5T  
ROOT20EndOfProcessCleanupsEv+0x4c)[0x2b0191e57c8c]  
/lib64/libc.so.6(exit+0xe2)[0x2b0192dafb22]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(+0x2719de)[ 0x2b01b43639de]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(zabend_+0x3 f)[0x2b01b42eecaaf]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(zfatal_+0x7 92)[0x2b01b42f3b42]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(mztabc_+0x2  
1a)[0x2b01b42e4b7a]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(mztabr_+0x1  
55)[0x2b01b42e1645]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(mzgar1_+0x2  
10)[0x2b01b42f2480]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(mzlift_+0x3 df)[0x2b01b42f459f]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(mzbook_+0xf  
b)[0x2b01b42f07db]  
/software/fairsoft/fairsoft_may16p1_root6/lib/libgeant321.so(g3physi_+0x  
1f7d)[0x2b01b42058dd]  
/home/pflueger/FairRoot_install/lib/libBase.so.17.03.00(_ZN20FairGeaneAp  
plication6InitMCEPKcS1_+0x26)[0x2b019e9feff6]  
/home/pflueger/FairRoot_install/lib/libGeane.so.17.03.00(_ZN9FairGeane4I  
nitEv+0x502)[0x2b01a52e0d12]  
/home/pflueger/FairRoot_install/lib/libBase.so.17.03.00(_ZN8FairTask8Ini  
tTaskEv+0x55)[0x2b019e9f66a5]  
/home/pflueger/FairRoot_install/lib/libBase.so.17.03.00(_ZN8FairTask9Ini  
tTasksEv+0x5b)[0x2b019e9f660b]
```

```
/home/pflueger/FairRoot_install/lib/libBase.so.17.03.00(_ZN10FairRunAna4
InitEv+0x3be)[0x2b019e9ea77e]
[0x2b01a98bd5f5]
[0x2b01a98ba0b2]
/software/fairsoft/fairsoft_may16p1_root6/lib/root/libCling.so(_ZN5cling
11Interpreter11RunFunctionEPKN5clang12FunctionDeclEPNS_5ValueE+0x24a)[0x
2b01940cd3ea]
```

I managed to overcome this problem, by adding the first two lines of your code snipped in the FairGeaneApplication. However I need to verify that the physics results are meaningful once i have the simulation macro running...

```
void FairGeaneApplication::ConstructGeometry()
{
  TVirtualMC::GetMC()->SetRootGeometry(); // notify VMC about Root geometry
  gGeoManager->GetListOfVolumes()->Delete();
  gGeoManager->GetListOfShapes()->Delete();
}
```

Thx for the help.

Stefan
