
Subject: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Fri, 24 Nov 2017 13:55:51 GMT
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Hi,

the backtracking macro of the LMD does not work atm and crashes with the following error messages (I cut away the unimportant log parts)

Quote:

-----FairGeane::Init ()-----

Loading Geant3 libraries ...
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 1026518087 3D2F6C47 HEX

MZSTOR. Initialize Store 0 in /GCBANK/
with Store/Table at absolute adrs 1021071557 1026518087
 HEX 3CDC50C5 3D2F6C47
 HEX FFACE2B2 0
 relative adrs -5446990 0
with 1 Str. in 2 Links in 5300 Low words in 4999970 words.
This store has a fence of 16 words.

MZLOGL. Set Log Level 0 for store 0
1***** GEANT Version 3.21/11 Released on 100298
0***** Correction Cradle Version 0.1100

MZDIV. Initialize Division Constant in Store 0
NW/NWMAX= 20004000000, MODE/KIND= 1 2
Division 20 initialized.

MZLINK. Initialize Link Area /GCLINK/ for Store 0 NL/NS= 20 20

MZLINK. Initialize Link Area /GCSLNK/ for Store 0 NL/NS= 100 100
-I- G3Config: Geant3 with TGeo has been created for Geane.
-I- Geane.C: NOPRNT flag set to 1
-I- Geane.C: IERR flags are not printed. If you want to switch them on, please set
fErtrio1->noprnt = 0 in Geane.C
Energy straggling area parameter from user set to: 0.999
0*** GSTMED *** Warning, medium = 2, value of EPSIL= 0.000E+00 reset to 1 micron

Calculating cross section tables, see gphysi.dat for more information

!!!! ZFATAL called from MZTABC
 called from MZTABR
 called from MZGAR1
 called from MZLIFT
 called from MZBOOK

!!!! ZFATAL reached from MZTABC for Case= 1

```
IQUEST(11) = 4992103      4C2C67
IQUEST(12) = 4991367      4C2987
IQUEST(13) = 4999968      4C4B20
```

Current Store number = 0 (JQDIVI=20)
1ZEBRA SYSTEM Post-Mortem from ZPOSTM.

The crash occurs in the BuildPhysics() function call of the TVirtualMC (here of type TGeant3TGeo). The call to BuildPhysics() is made within the FairGeaneApplication::InitMC(). I'm using FairSoft 17.03.

Quote:

```
void FairGeaneApplication::InitMC(const char*, const char*)
```

```
{
// Initialize MC.
```

```
TVirtualMC::GetMC()->Init();
TVirtualMC::GetMC()->BuildPhysics();
fMcVersion = 3; //Geane
```

```
TVirtualMC::GetMC()->SetMagField(fxField);
}
```

Any help is appreciated. Thanks in advance

Stefan

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Mon, 27 Nov 2017 15:29:41 GMT
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Hi,

I think this problem is more general. Does anyone use the pandaroot trunk (so with ROOT6) and performs simulations with geant3? I think this does not work either...

Cheers,
Stefan

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Tobias Stockmanns](#) on Mon, 27 Nov 2017 15:37:53 GMT
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Dear Stefan,

try to delete the simpam.root file and redo the simulation. We check the operation of the trunk every night with our CDASH system.

There no problem of Geant3 is reported.

Cheers,

Tobias

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Mon, 27 Nov 2017 17:40:40 GMT
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Hi Tobias,

thx for the info. I tried to delete the simpam.root file but same result. But know I know that Geant3 runs fine with the Pandaroot trunk, and I can check what I have different

Thx
Stefan

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Tue, 28 Nov 2017 10:26:34 GMT
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Hi again,

so I ran the master simulation macros etc on my machine with the same result.

Then I also checked the CDash and it seems like that it does not work...
<https://cdash.gsi.de/viewTest.php?onlyfailed&buildid=165787>

From the CDash results it looks like the problem comes from a change in FairRoot. Versions 16 seems to run, but not for version 17. I will investigate a bit further

Cheers,
Stefan

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Tobias Stockmanns](#) on Tue, 28 Nov 2017 10:32:54 GMT
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Hi Stefan,

the CDASH you are refering to shows the same problem as you have but yesterday it did not have this problems:

<https://cdash.gsi.de/viewTest.php?buildid=165682&onlyfailed>

The software has not changed from yesterday to today. Therefore it seems that this problem

shows up randomly which is a bit strange.

Cheers,

Tobias

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Tue, 28 Nov 2017 10:37:40 GMT
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Hi Tobias,

hmm yeah strange indeed... A pity the log is truncated. Thx for the information

Stefan

Subject: Re: Initialization Error of Geane using Geant3
Posted by [Stefan Pflueger](#) on Fri, 08 Dec 2017 13:11:12 GMT
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Hello,

this problem is fixed by now. Florian and Mohammad inspected this (see <https://github.com/FairRootGroup/FairRoot/issues/686>).

The issue arises from a conflict of geant3 with the optimizations done by the gcc 6.4.0, which I was using. Turning off the optimizations for the geant3 library fixes this kind of crash.

Cheers,
Stefan
