Subject: G4MagIntegratorDriver error Posted by Tobias Stockmanns on Wed, 21 Jan 2009 14:35:00 GMT View Forum Message <> Reply to Message

Dear PandaRooters,

since my last update of pandaRoot from SVN I am getting the following error-message when I run runMvdSim.C before my root system stops working:

G4MagIntegratorDriver::OneGoodStep: Stepsize underflow in Stepper Step's start x=7.74619 and end x= 7.74619 are equal !! Due to step-size= 2.28754e-16. Note that input step was 0.228754

This happens for various event generators and sub-detectors.

With GEANT3 everything seems to run smoothly.

Has anyone an idea what is going wrong?

Thanks

Tobias

P.S.: At a different run I got the following more complete error message: G4MagIntegratorDriver::OneGoodStep: Stepsize underflow in Stepper Step's start x=1.05216 and end x= 1.05216 are equal !!

Due to step-size= 2.10975e-17 . Note that input step was 0.0210975 G4ParticleChange::CheckIt : the Momentum Change is not unit vector !! Difference: 1

0

G4ParticleChange::CheckIt

G4ParticleChange Information	
# of 2ndaries :	0
Energy Deposit (MeV): Non-ionizing Energy Depo Track Status : True Path Length (mm) : Stepping Control : Mass (GeV) : Charge (eplus) : MagneticMoment : : = 0*[eH Position - x (mm) : Position - y (mm) : Position - z (mm) : Time (ns) : Proper Time (ns) : Momentum Direct - x : Momentum Direct - y :	0 osit (MeV): Alive 1.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	-

Kinetic Energy (MeV):22.7Polarization - x:0Polarization - y:0Polarization - z:0Touchable (pointer) :0xdfd1cd8

\*\*\* G4Exception : 200

 issued by : G4ParticleChange::CheckIt
 momentum, energy, and/or time was illegal
 \*\*\* Event Must Be Aborted

Subject: Re: G4MagIntegratorDriver error Posted by Mohammad Al-Turany on Fri, 23 Jan 2009 08:26:54 GMT View Forum Message <> Reply to Message

Hallo Tobias,

Is there anything special to do to reproduce this! with the trunk on 64 bit linux and MAC it is not reproducible! but I think this bug is related to the new field map classes! can you please tell me on which system you have this problem and maybe you can try to use a constant field and see if the problem still there or if it is not much work for you to use the old maps!

regards

Mohammad

Subject: Re: G4MagIntegratorDriver error Posted by asanchez on Sun, 25 Jan 2009 09:56:33 GMT View Forum Message <> Reply to Message

Hi I'm using the gsi installation sarge32 linux

and i'm using the following field configuration
as usual(old filed maps) and i get the same error
as Tobias.
For me it has been working before.
So what is going on wrong?
PndMultiField \*fField= new PndMultiField();
 PndTransMap \*map= new PndTransMap("TransMap", "R");
 PndDipoleMap \*map1= new PndDipoleMap("DipoleMap", "R");
 PndSolenoidMap \*map2= new PndSolenoidMap("SolenoidMap", "R");
 fField->AddField(map);
 fField->AddField(map1);

```
fField->AddField(map2);
fRun->SetField(fField);
```

Subject: Re: G4MagIntegratorDriver error Posted by Mohammad Al-Turany on Mon, 26 Jan 2009 10:37:42 GMT View Forum Message <> Reply to Message

Hi,

I managed to reproduce this only on Debian Sarge (gcc 3.3.5), it has to do with some initialization problems! any way I corrected some stuf in base and field and for me it is working now on Sarge, please test it and let me know!

Mohammad

Subject: Re: G4MagIntegratorDriver error Posted by asanchez on Tue, 27 Jan 2009 08:27:39 GMT View Forum Message <> Reply to Message

Hi Mohammad now it seems to work. thanks ALicia.

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