
Subject: TGeoCompositeShape sustraction
Posted by [asanchez](#) on Wed, 26 Sep 2007 14:49:41 GMT
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dear all,

i have tried to build a TGeoComposite Shape which is the subtraction of other two volumes, and when i try to visualize them i get this error message.

Root >

```
*** Break *** segmentation violation
Generating stack trace...
0xffffe420 in <unknown function>
0x423a9410 in TGeoBoolNode::Paint(char const*) + 0x92 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeom.so
0x423aaddb in TGeoSubtraction::Paint(char const*) + 0x7f from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeom.so
0x423b8d6e in TGeoCompositeShape::PaintComposite(char const*) const + 0x286 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeom.so
0x42687481 in TGeoPainter::PaintShape(TGeoShape const&, char const*) const + 0x10d
from /usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeomPainter.so
0x4268729a in TGeoPainter::PaintVolume(TGeoVolume*, char const*, TGeoMatrix*) + 0x7f8
from /usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeomPainter.so
0x42686709 in TGeoPainter::Paint(char const*) + 0x1d1 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeomPainter.so
0x42428d63 in TGeoVolume::Paint(char const*) + 0x93 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGeom.so
0x412791ae in TPad::PaintModified() + 0x2b2 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGpad.so.5.12
0x4125bfe0 in TCanvas::Update() + 0xee from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGpad.so.5.12
0x41d625d7 in TRootCanvas::HandleContainerConfigure(Event_t*) + 0x55 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41d6300f in TRootContainer::HandleConfigureNotify(Event_t*) + 0x3b from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41caf86f in TGFrame::HandleEvent(Event_t*) + 0xc7 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41c85844 in TGClient::HandleMaskEvent(Event_t*, unsigned long) + 0x80 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41c8542a in TGClient::ProcessOneEvent() + 0x86 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41c85516 in TGClient::HandleInput() + 0x28 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x41c837fa in TGInputHandler::Notify() + 0x22 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libGui.so
0x402ca3eb in TUnixSystem::DispatchOneEvent(bool) + 0x57 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libCore.so.5.12
0x401d5b22 in TSystem::InnerLoop() + 0x22 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libCore.so.5.12
0x401d5ab8 in TSystem::Run() + 0x80 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libCore.so.5.12
0x401d72f in TApplication::Run(bool) + 0x37 from
```

```
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libCore.so.5.12
0x4172b563 in TRint::Run(bool) + 0x449 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/lib/libRint.so.5.12
0x08048e64 in main + 0x90 from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/bin/root.exe
0x418b5e36 in __libc_start_main + 0xc6 from /lib/libc.so.6
0x08048d31 in TApplicationImp::ShowMembers(TMemberInspector&, char*) + 0x3d from
/usr/local/pub/debian3.1/gcc335-13/rootmgr/512-00/bin/root.exe
Root >
```

Has any of you any idea?

best regards

alicia.

Subject: Re: TGeoCompositeShape sustraction
Posted by [StefanoSpataro](#) on Wed, 26 Sep 2007 15:02:28 GMT
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I can see you are not using root 5.14, which should be the one for PandaRoot.
Is it possible that you messed up with the external packages?

Subject: Re: TGeoCompositeShape sustraction
Posted by [asanchez](#) on Wed, 26 Sep 2007 15:13:55 GMT
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Hi that is still the old release.

I have checked again, it works.
the problem was related with a bad copy numbering.

anyway if somebody tries to substrate two volumes by using
TGeoCompositeShape, pay attention because there is a bug in the root class documentation.

```
TGeoCompositeShape *cv = new TGeoCompositeShape("cv", " first\ second")
```

Don't use (\) for susbatration, it doesn't work.

The proper expression is (-)

```
TGeoCompositeShape *cv = new TGeoCompositeShape("cv", " first- second")
```

best regards
alicia
