Subject: Re: shape of a volume - always TGeoBBox ?
Posted by Olaf Hartmann on Mon, 13 Dec 2010 15:39:09 GMT

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Dear all,

I just realized that asking the GeoManager about the shape of a volume he always answers TGeoBBox, which is a bounding box of each of the volumes, even if they're originally of type e.g. TGeoTube.

Quote:root [2] gGeoManager->GetVolume(1211)->GetShape()->InspectShape()
*** Shape stt01wire1880: TGeoTube ***
   Rmin =   0.00000
   Rmax =   0.00100
   dz   =   31.80215
 Bounding box:
*** Shape stt01wire1880: TGeoBBox ***
   dX =   0.00100
   dY =   0.00100
   dZ =   31.80215
   origin: x=   0.00000 y=   0.00000 z=   0.00000

As I wrote in the earlier mail, I tried to access the dimensions of the physical volumes:

```
   TGeoVolume* actVolume = gGeoManager->GetVolume(fVolumeID);
TGeoShape* actShape = actVolume->GetShape();
const char* fShapeName = actShape->GetName();
```


fShapeName is always TGeoBBox. How can I arrive to the underlying shape (e.g. TGeoTube) ?

Cheers
Olaf.