
Subject: Re: Reading from TGeoManager does not work
Posted by [Volker Frieze](#) on Thu, 05 Jul 2012 16:30:24 GMT
[View Forum Message](#) <> [Reply to Message](#)

Quote:if you look at this same method few lines below you see:

```
TGeoMatrix* M = n->GetMatrix();
```

and when v1 is added to the cave you see:

```
Cave->AddNode(v1,0, M);
```

So this is not really a problem and the right matrix is used.

I think that is not correct. Imagine my TGeoManager containing the hierarchy cave - STS - station01. Then

```
NewGeo->cd();  
volume=(TGeoVolume*)NewGeo->GetNode(0)->GetDaughter(0)->GetVolume();  
will give me the volume of the node STS. This is copied into the volume v1:  
v1=volume->MakeCopyVolume(volume->GetShape());  
and then the node n is set to  
n=v1->GetNode(0);  
which is the first daughter node of STS, i.e. station01. So,  
TGeoMatrix* M = n->GetMatrix();  
is the transformation matrix of station01 into the STS, but what you want to have is the  
transformation from STS to cave. This matters only in case of reading from a TGeoManager  
(which does not work anyway at the moment); in case of reading from a TGeoVolume, the  
implementation is correct.
```

This is corrected now, if the media is not found in Media file or TGeoManager, it is a FATAL and it exit.

Very good, thank you!

Best regards,

Volker
