
Subject: How to get the list of Volumes?

Posted by [Olaf Hartmann](#) on Wed, 24 Nov 2010 08:40:43 GMT

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Dear all,

I'm searching for a possibility to print the list of volumes in a simulation run, something like the "dtree" command in Geant3. So far I found the number of volumes and the number of daughter volumes, but hopefully there's an easier way.

Any hint?

Cheers

Olaf.

Subject: Re: How to get the list of Volumes?

Posted by [Mohammad Al-Turany](#) on Fri, 26 Nov 2010 12:30:51 GMT

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Hallo Olaf,

Once you have the geometry in memory, you can call:

```
gGeoManager->GetListOfVolumes()
```

This will return a TObjArray of all volumes in the geometry.

regards

Mohammad

Subject: loading complete geometry

Posted by [Olaf Hartmann](#) on Fri, 03 Dec 2010 13:29:52 GMT

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Dear PANDARooters,

do we have an up-to-date macro (in svn) to load the PANDA geometry as complete as possible, i.e. all available detector and detector support materials?

Cheers

Olaf.

Subject: Re: loading complete geometry

Posted by [Stefano Spataro](#) on Fri, 03 Dec 2010 20:21:45 GMT

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Hi,

I think the most updated are the macros in macro/pid -> run_sim_tpccombi_XXX.C and run_sim_sttcombi_XX.C

Subject: Re: How to get the parameters of Volumes?

Posted by [Olaf Hartmann](#) on Mon, 13 Dec 2010 08:58:36 GMT

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Hi,

another question concerning the volumes: how to get back the geometry parameters of the volumes in the code?

Interactively I can do something like

```
gGeoManager->GetVolume("FscAbsorber")->GetShape()->InspectShape()
```

but I found so far no way how to access the printout from this statement inside the code.

Cheers

Olaf.

Subject: Re: How to get the parameters of Volumes?

Posted by [Tobias Stockmanns](#) on Mon, 13 Dec 2010 09:27:02 GMT

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Hi Olaf,

have a look into PndTools/PndGeoHandling.cxx.

I guess the method GetSensorDimensionsPath is doing what you want.

Cheers,

Tobias

Subject: Re: How to get the parameters of Volumes?

Posted by [Olaf Hartmann](#) on Mon, 13 Dec 2010 09:42:32 GMT

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Hi Tobias,

thanks, this method can be easily adapted for other shapes than boxes.

Tobias Stockmanns wrote on Mon, 13 December 2010 10:27
have a look into PndTools/PndGeoHandling.cxx.

I guess the method GetSensorDimensionsPath is doing what you want.

Cheers
Olaf.

Subject: Re: How to get the parameters of Volumes?
Posted by [Ralf Kliemt](#) on Mon, 13 Dec 2010 15:01:36 GMT
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Olaf Hartmann wrote on Mon, 13 December 2010 10:42Hi Tobias,

thanks, this method can be easily adapted for other shapes than boxes.

Cheers
Olaf.

Hi Olaf.

Just when you're at it, add your extension into the PndGeoHandling.

Regards.

Ralf