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Subject: ProcessHits() "not visible" while reading root geometry file

Posted by [Aleksandra Biegun](#) on Wed, 10 Oct 2007 09:53:41 GMT

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Hello,

when I want to read a root file with emc geometry,  
program does not go into the ProcessHits() function  
(PndEmc.cxx) which uses TVirtualMC.cxx  
and that's why I can not get Points for this detector  
(the geometry of this detector is plotted correctly).

Does anybody know why?

Thanks in advance!

Ola.

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Subject: Re: ProcessHits() "not visible" while reading root geometry file

Posted by [Mohammad Al-Turany](#) on Wed, 10 Oct 2007 10:12:25 GMT

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Hi,

If I understand you well, you want to use root files for the geometry (like in the MVD) So I think you follow the procedure used in MVD and implemented the construct geometry methods! did you also implement a method analoge to CheckIfSensitive()? to decide (e.g. using names) which volume is sensitive! in fact the ProcessHits() function will be only called if Geant stepping enter a volume which is marked sensitive.

regards

Mohammad

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Subject: Re: ProcessHits() "not visible" while reading root geometry file

Posted by [Aleksandra Biegun](#) on Wed, 10 Oct 2007 11:21:54 GMT

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Hi Mohammad,

yes, exactly, I want to use root files for the geometry (like in the MVD or dch) and I followed the way of dch detector, where I added to sensitives crystals by their names.  
I also tried to use the CheckIfSensitive() methods (like it is done for mvd), but somewhere I still

miss something, because I have exactly the same effect that detector is plotted (so I guess that in some part crystals are added to sensitives), but still I can't see ProcessHits() function running.

Regards,  
Ola.

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Subject: Re: ProcessHits() "not visible" while reading root geometry file  
Posted by [Mohammad Al-Turany](#) on Wed, 10 Oct 2007 11:56:42 GMT  
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Hallo,

Ok, can you make a tar file of your emc directory and send it to me with the root geometry file.

Mohammad

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Subject: Re: ProcessHits() "not visible" while reading root geometry file  
Posted by [Aleksandra Biegun](#) on Thu, 11 Oct 2007 18:15:58 GMT  
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Hi Mohammad, Dima,

it seems that my problem is solved (thanks to Johan)  
and it works now

The problem was with: where and how the volume with forward endcap  
was added to the mother volume (Cave).

Thanks a lot!

Best wishes,  
Ola.