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Subject: STT lookup table.

Posted by [Lia Lavezzi](#) on Thu, 30 Apr 2009 11:40:49 GMT

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Hi all,

I am writing the lookup table to be able to retrieve at the digi/reco step the geometry information of the straw tubes without the need of saving them as variables of the PndSttPoint.

I wanted to retrieve them from the parameters root file, but since I have to access the geo information for each point this seems to slow down both the digitization and (more) the reconstruction.

I was wondering (maybe this is a strange question ): is this an expected behaviour? I mean, is accessing the geo information from the parameter file a good idea or should I think of something else? Can it be that the switching between the simulation and parameter file slows down things?

If this is the reason, my second hypothesis would be to create an object PndSttTube and fill it with the geometry information, then save an array of all the tubes in the simulation output file (only once, not for each event). Could this speed up things?

I am just making some guess because I am fighting with this map and I can't find a way out!

Any comment/suggestion is welcome!!!

Thank you very much,  
Lia.

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Subject: Re: STT lookup table.

Posted by [Stefano Spataro](#) on Thu, 30 Apr 2009 11:58:55 GMT

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Hi,

I think you could create, at the task initialization, an object which stores the lookup table according to the parameter file, and then just using it at each point.

In this way you access only one time to the parameter file (and I think the I/O is the slowest part of the mechanism), and you can use the numbers inside the object as many times you want and fast enough, considering that all the numbers are already stored in the memory and there is no I/O anymore (of course it depends also on the size of the lookup table).

Or maybe I am missing some points and I have not understood the question

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Subject: Re: STT lookup table.

Posted by [Lia Lavezzi](#) on Thu, 30 Apr 2009 14:03:51 GMT

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Quote: I think you could create, at the task initialization, an object which stores the lookup table according to the parameter file, and then just using it at each point.

Hi Stefano,

do you mean to create at the initialization of the task the whole array of PndSttTubes containing all the information in it? Maybe this could be a good solution! I will try it soon! Thank you!

Ciao,  
Lia.

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