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Subject: Heavy Development on genfit  
Posted by [Sebastian Neubert](#) on Tue, 15 May 2007 21:36:13 GMT  
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Hi everybody!

We are doing brain surgery on genfit at the moment to prepare for the arrival of GEANE and to provide a somewhat easier interface.

Please do NOT UPDATE genfit and recotasks until I tell you so.

This is inconvenient. But as (to my knowledge) we do not have something like a development branch I have to do it this way.

I would be happy about a more sophisticated svn-management than just everybody working on the head.

Cheers!

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Subject: Re: Heavy Development on genfit  
Posted by [Johan Messchendorp](#) on Tue, 15 May 2007 22:25:26 GMT  
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... this could indeed be a good motivation to start with a "stable" and "development" branch in svn. Any opinions/experiences in that direction? And could that be easily implemented and activated (question to Mohammad....)?

Johan.

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Subject: Re: Heavy Development on genfit  
Posted by [Florian Uhlig](#) on Wed, 16 May 2007 13:49:22 GMT  
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I think it is a good idea to have a stable version of the code.  
On the other side i don't understand why there is need to put code back to SVN which is known not to work.  
Is it not possible to test and develop the code localy and when everything is fine put it back to SVN?

Ciao

Florian

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Subject: Re: Heavy Development on genfit

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Posted by [Sebastian Neubert](#) on Wed, 16 May 2007 13:53:19 GMT

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Hi Florian!

No this is not possible.

I want to track the changes I make to the code in small steps. For this a version management system is there.

If you require people to only check in running code they will "never" check in.

However I agree that with present setup of svn it is very bad to commit something that does not even compile.

Sebastian.

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Subject: Re: Heavy Development on genfit

Posted by [Sebastian Neubert](#) on Wed, 16 May 2007 13:55:08 GMT

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Hi!

I have just checked in a state (rev 754) where tpc/ recotasks/ and genfit/ all compile. So you can try to update.

However the operation is not finished and at the moment I have to debug because the kalman now is doing very strange things

Stay tuned!

Sebastian.

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Subject: Re: Heavy Development on genfit

Posted by [Sebastian Neubert](#) on Wed, 16 May 2007 14:05:26 GMT

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Hi!

Another argument for checking in development code:

If somebody is to help me with the code I need to share my current status (containing the bug I need help with).

Sebastian.

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Subject: Re: Heavy Development on genfit

Posted by [Florian Uhlig](#) on Wed, 16 May 2007 14:08:06 GMT

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Hi Sebastian

Thanks for your fast reply.  
I understand that you want to check in the stuff bit by bit.  
For the time being i will not compile the affected libraries.

Good luck for hunting the bugs.

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Subject: Re: Heavy Development on genfit  
Posted by [Ralf Kliemt](#) on Wed, 16 May 2007 14:43:04 GMT  
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Hi Sebastian,

A quick report:  
Taking rev. 754 and compiling it I get the following:

```
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSimplePatternRecoTask.cxx: In member function  
'virtual void TpcSimplePatternRecoTask::Exec(const Option_t*)':  
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSimplePatternRecoTask.cxx:113: error: 'class  
Track' has no member named 'addHitIndices'  
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSimplePatternRecoTask.cxx:122: error: 'class  
Track' has no member named 'getHitIndices'  
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSimplePatternRecoTask.cxx:123: error: 'class  
Track' has no member named 'getHitIndices'  
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSimplePatternRecoTask.cxx:157: error: 'class  
Track' has no member named 'getDetIDs'
```

In the genfit/Track.h these accessors are commented.

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Subject: Re: Heavy Development on genfit  
Posted by [Sebastian Neubert](#) on Wed, 16 May 2007 14:58:53 GMT  
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Hi!

In this revision the TpcSimplePatternRecognitionTask should not be included in the makefile anymore. Probably I forgot to update the CMakelist.

Ah! I understand that this will get me in trouble. I am still using automake/conf. In such a case having two build systems is really nasty.

Hm...

Just take the "bad" classes out of the build please!

Sebastian.

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Subject: Re: Heavy Development on genfit  
Posted by [Sebastian Neubert](#) on Fri, 18 May 2007 16:17:46 GMT  
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Hi!

In genfit the Track object can now fill a TVirtualGeoTrack.  
This is used in recotasks/TrackVisTask to visualize the tracks.

Unfortunately it was not possible to use the geometry provided by Cbm. There were segmentation violations when I tried this, that I could not debug. An Expert should look at this.

The Hit visualization has to be done yet.

Cheers! Sebastian.

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Subject: Re: Heavy Development on genfit  
Posted by [Mohammad Al-Turany](#) on Tue, 22 May 2007 13:06:24 GMT  
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Hi,

You should use TGeoTrack and not TVirtualGeoTrack, the later has no Draw implementation, it has only the dummy Draw implimentation of TObject!

regards

Mohammad

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Subject: Re: Heavy Development on genfit  
Posted by [Sebastian Neubert](#) on Tue, 22 May 2007 13:53:59 GMT  
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Hi Mohammad!

I tried TGeoTrack. It does not work. This is due to the special handling of GeoTracks in the GeoManager. You have to get a TVirtualGeoTrack-pointer from the GeoManager and then fill the object with data. Of course internally GeoManager will use TGeoTrack.

In the meanwhile I got it working. Didn't I post that?

Cheers! Sebastian.

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