
Subject: Bug in PndGenfitAdapters

Posted by [StefanoSpataro](#) on Wed, 27 Oct 2010 09:33:29 GMT

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Exploring the warnings, I have found something very interesting. This is one of the main reasons why I stress that it is important to remove all the warnings, even if they are just warnings!

In particular:

```
[ 80%] Building CXX object
```

```
GenfitTools/adapters/CMakeFiles/genfitAdapters.dir/PndGenfitAdapters.o
```

```
/home/spataro/test/trunk/GenfitTools/adapters/PndGenfitAdapters.cxx: In function
```

```
`GFTrackCand* PndTrackCand2GenfitTrackCand(PndTrackCand*):
```

```
/home/spataro/test/trunk/GenfitTools/adapters/PndGenfitAdapters.cxx:36: warning: passing  
`Double_t' for converting 4 of `void GFTrackCand::addHit(unsigned int, unsigned int, double,  
unsigned int)'
```

```
Linking CXX shared library ../../lib/libgenfitAdapters.so
```

```
[ 80%] Built target genfitAdapters
```

If you check PndGenfitAdapters.cxx line 36 you find:

```
retVal->addHit(candHit.GetDetId(),candHit.GetHitId(),0,candHit.GetRho());
```

In reality, the correct GFTrackCand::addHit function is:

```
void addHit(unsigned int detId, unsigned int hitId, double rho=0., unsigned int planeId=0);
```

Then, in the adapter the order criterion "rho" is switched with the detector plane "planeId". We are giving always the same rho=0, and giving rho as plane id!!

Before committing the correction, I would like to ask to genfit expert if this is correct and in particular if this could affect the kalman global fit performances.

Many thanks.
