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Subject: Error in PndLheKalmanTask: track-array not found  
Posted by [Christian Leitold](#) on Thu, 03 Sep 2009 12:25:48 GMT  
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Hello,

again I have some questions concerning the full simulation (with STT). As already mentioned before, we have created a set of macros based on those in trunk/tutorials/analysis (sim, digi, reco, kalman, makeTCands). I have upgraded now to the latest revision of the software now, which now runs "fine" -- if you define fine as "causing exactly the same errors as the old version".

Except from the actual simulation, I get these error messages in all steps:

Error in <PndFieldPar::init()>: PndFieldPar not initialized  
Error in <PndSolenoidPar::init()>: PndSolenoidPar not initialized  
Error in <PndDipolePar::init()>: PndDipolePar not initialized  
Error in <PndTransPar::init()>: PndTransPar not initialized  
Error in <PndConstPar::init()>: PndConstPar not initialized  
Error in <FairRuntimeDb::initContainers()>: Error occured during initialization  
So far, I could not find out if those are serious problems. Contrary, there is a serious problem in the Kalman task:

Error in <PndLheKalmanTask::PndLheKalmanTask::Init>: track-array not found!  
I have already found out the reason for that is that the PndLheKalmanTask looks for a branch named LheTrack, which is apparently not there. And this also leads to a similar error in makeTCands:

-E- FairRootManager Branch: LheGenTrack not found in Tree  
So, what do I have to do to add the missing "track array" to my simulation?

Thanks  
Christian

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Stefano Spataro](#) on Thu, 03 Sep 2009 12:44:43 GMT  
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Have you redone the whole chain with the new svn trunk?  
If yes, you should have the LheTrack TCA... if not, probably your reco has crashed.

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Christian Leitold](#) on Thu, 03 Sep 2009 12:54:22 GMT  
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Yes, I have done everything with the new svn trunk (revision 6392). Reco does not look as if it crashed: There ist except from the initialization errors only one warning again and again in the reco log:

-W- PndLheHitsMaker::GetSttHelixHit: SttHelixHit with GetZ() == 0 - skipped (requires STT bug fix!!)

What is the actual task where the LheTrack branch is created? And, what does TCA mean? (Sorry for such a beginner's question ...)

Kind regards  
Christian

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Stefano Spataro](#) on Thu, 03 Sep 2009 12:57:57 GMT

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The warning is nothing serious.

LheTrack is created from the PndLheTrackFinder/Fitter, while LheGentrack is created by PndLheKalmanTask. After the "reco" and "fit" these TClonesArray (TCA) should be present inside cbmsim. Could you please check, and see which TCA are present? (i.e., after sim you find MCTrack, EmcPoint, SttPoint... I need the same but for your reco and fit root files).

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Christian Leitold](#) on Thu, 03 Sep 2009 13:17:06 GMT

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Ah, ok, so TCA ist just TClonesArray ...

For some strange reason, I had used PndSttFind/FitTracks instead of PndLheTrackFinder/Fitter ... bad mistake, especially, since the original version of the macro contained the now obsolete PndTpcLheTrackFinder/Fitter.

Still, now I get another error in the Kalman task:

Error in <PndLheKalmanTask::PndLheKalmanTask::Init>: PndTpcCluster array not found  
-E- FairRootManager Branch: GEMHit not found in Tree  
Why Tpc? There is no Tpc in our simulation ... and what about GEMHit?

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Stefano Spataro](#) on Thu, 03 Sep 2009 13:19:57 GMT

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The correct use of PndLheHitsMakes for stt+mvd can be found here:

tutorials/lhetrack/run\_reco\_sttcombi.C

If you want to use also gem (if they are on the simualtion), then check:

tutorials/lhetrack/run\_reco\_sttcombigem.C

However, tutorials/lhetrack has always the last updated version of the lhe macros.

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Christian Leitold](#) on Thu, 03 Sep 2009 13:38:36 GMT  
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Alright, thanks for your suggestions.

What about the other Errors, the six initialization errors which I get in every macro except from the sim?

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Stefano Spataro](#) on Thu, 03 Sep 2009 13:41:47 GMT  
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They do not affect the results, even because I suppose you are using a PndMultiFieldPar, which I cannot see between your error messages.

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Subject: Re: Error in PndLheKalmanTask: track-array not found  
Posted by [Christian Leitold](#) on Thu, 03 Sep 2009 13:45:06 GMT  
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Indeed I use a PndMultiFieldPar ... ok, thanks!

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