
Subject: [FIXED] problem with recoideal_complete.C
Posted by [Ajay Kumar](#) on Mon, 09 Jun 2014 05:15:10 GMT
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Dear All,

I am simulating 10^5 events for the $p\bar{p} \rightarrow D^+ D^-$ and $p\bar{p} \rightarrow J/\psi \pi^+ \pi^-$ channels. I have run the script for this job in bellow manner.

```
root -l -q sim_complete.C
root -l -q digi_complete.C
root -l -q recoideal_complete.C
root -l -q pid_complete.C
```

when simulation comes to recoideal_complete.C, it regularly print the following message on the screen and after long perid directly comes on the terminal without closing the output file.

```
could not convert GenfitTrack to PndTrack
could not convert GenfitTrack to PndTrack
could not convert GenfitTrack to PndTrack
```

```
*** ETRTGO *** Boundary loop: track  1 stack  0 NTMULT  0 MUON -
Precision now set to  0.250E-04
```

```
*** ETRTGO *** Boundary loop: track  1 stack  0 NTMULT  0 MUON -
Precision now set to  0.250E-04
```

```
could not convert GenfitTrack to PndTrack
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could not convert GenfitTrack to PndTrack
```

Is something wrong with this code?
what should I do to get out from this problem?

Thanks & Regards
Ajay

Subject: Re: problem with recoideal_complete.C
Posted by [Stefano Spataro](#) on Mon, 09 Jun 2014 05:55:43 GMT
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Are you using dec13 external packages?

Subject: Re: problem with recoideal_complete.C
Posted by [Ajay Kumar](#) on Mon, 09 Jun 2014 06:58:07 GMT
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Hi Stefano,

I am using Apr13 external package and scrut14 release of pandaroot.

Subject: Re: problem with recoideal_complete.C
Posted by [Stefano Spataro](#) on Mon, 09 Jun 2014 07:01:26 GMT
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How often do they appear?
Are you running 10^5 events in a single file, or in several smaller files?

Subject: Re: problem with recoideal_complete.C
Posted by [Ajay Kumar](#) on Mon, 09 Jun 2014 07:11:02 GMT
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Yes, I have run simulation for 10^5 events in a single file.
again I operated simulation for 10^4 events in a single file and it works for me.
How should I proceed now?

Subject: Re: problem with recoideal_complete.C
Posted by [Stefano Spataro](#) on Mon, 09 Jun 2014 07:20:11 GMT
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Simply you are running too many files, you saturate the memory of your PC and root exit w/o any message.
You should never run more than 10000 events in a single file, you can run many times the same macros and at the end merge the output.

Subject: Re: problem with recoideal_complete.C
Posted by [Ajay Kumar](#) on Mon, 09 Jun 2014 07:34:08 GMT
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Thanks Stefano for your quick reply.

Can we chose the seed no. like 1,2,3..so on for different runs as we need millions events?

Is there any code exists to merge the output root files?

How to merge 100 root files with big size?

Subject: Re: problem with recoideal_complete.C
Posted by [StefanoSpataro](#) on Mon, 09 Jun 2014 07:38:36 GMT
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Yes, you can use the seed number is such a way.
I suggest to create final root files with only histograms, and after to merge such files. Not the output of reconstruction, i.e. pid_complete.root and so on, but only the histogram files.

How?
<http://root.cern.ch/drupal/content/how-merge-histogram-files>

We use this method for the analysis running on the grid.

Subject: Re: problem with recoideal_complete.C
Posted by [Ajay Kumar](#) on Mon, 09 Jun 2014 08:06:16 GMT
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Ok, I should not try to add 100 pid_complete.root files to get the total 1 millions event. beside this I should run my analysis 100 times with each 10^4 events and create required histogram files and should add that 100 final histogram files.
was that your mean?

if I understood it correctly.

I need to know one more thing.

Why we need parameter file for our analysis?
code part is here.

```
FairParRootFileIo* parIO = new FairParRootFileIo();  
parIO->open(inParFile);  
rtddb->setFirstInput(parIO);  
rtddb->setOutput(parIO);
```

Can we perform our analysis only with the output of reconstruction(pid_complete.root)?

Thanks in Advance.

Subject: Re: problem with recoideal_complete.C
Posted by [StefanoSpataro](#) on Mon, 09 Jun 2014 08:10:09 GMT
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Param files store the geometry and also the pid selections, you have to include it.
