
Subject: [WONTBEFIXED] Problem in simulating 100000 particles

Posted by [Shyam Kumar](#) on Mon, 23 Sep 2013 08:07:17 GMT

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Hi,

I am using the box generator for simulating the particles In one macro I have taken nEvents =50000 after running it terminates at around 10000 and in one lakh events(nEvents =100000) macro it terminates around 26000 Please tell me why this is happening and how can I generate 1 lakh events.

I am showing the ouput for 100000 events for middle and for last

```
**** GTRIGI: IEVENT= 26431 IDEVT= 26431 Random Seeds = 1733690142      0
[INFO ] FairPrimaryGenerator: (Event 26431) 5 primary tracks from vertex (0.000000,
0.000000, 0.000000 ) with beam gradiant (0.000000, 0.000000) Event Time = 265938.772715
(ns)
```

```
Error in <TArrayF::At>: index 548533 out of bounds (size: 544960, this: 0x33702c0)
Error in <TArrayF::At>: index 548664 out of bounds (size: 544960, this: 0x33702c0)
Error in <TArrayF::At>: index 548534 out of bounds (size: 544960, this: 0x33702c0)
Error in <TArrayF::At>: index 548665 out of bounds (size: 544960, this: 0x33702c0)
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Error in <TArrayF::At>: index 548665 out of bounds (size: 544960, this: 0x33702e0)
Error in <TArrayF::At>: index 548533 out of bounds (size: 544960, this: 0x3370300)
Error in <TArrayF::At>: index 548664 out of bounds (size: 544960, this: 0x3370300)
Error in <TArrayF::At>: index 548534 out of bounds (size: 544960, this: 0x3370300)
Error in <TArrayF::At>: index 548665 out of bounds (size: 544960, this: 0x3370300)
```

```
POINT EXECUTION *****
```

```
**** GTRIGI: IEVENT= 26432 IDEVT= 26432 Random Seeds = 1733690142      0
```

In the last we get this:

```
INFO ] FairPrimaryGenerator: (Event 26680) 5 primary tracks from vertex (0.000000,
0.000000, 0.000000 ) with beam gradiant (0.000000, 0.000000) Event Time = 268420.294198
(ns)
```

```
POINT EXECUTION *****
```

```
**** GTRIGI: IEVENT= 26681 IDEVT= 26681 Random Seeds = 1733690142      0
```

```
[INFO ] FairPrimaryGenerator: (Event 2668**** GTRIGI: IEVENT= 26431 IDEVT= 26431
Random Seeds = 1733690142      0
```

```
[INFO ] FairPrimaryGenerator: (Event 26431) 5 primary tracks from vertex (0.000000,
0.000000, 0.000000 ) with beam gradiant (0.000000, 0.000000) Event Time = 265938.772715
(ns)
```

```
Error in <TArrayF::At>: index 548533 out of bounds (size: 544960, this: 0x33702c0)
Error in <TArrayF::At>: index 548664 out of bounds (size: 544960, this: 0x33702c0)
Error in <TArrayF::At>: index 548534 out of bounds (size: 544960, this: 0x33702c0)
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Error in <TArrayF::At>: index 548534 out of bounds (size: 544960, this: 0x33702e0)
Error in <TArrayF::At>: index 548665 out of bounds (size: 544960, this: 0x33702e0)
Error in <TArrayF::At>: index 548533 out of bounds (size: 544960, this: 0x3370300)
```

Error in <TArrayF::At>: index 548664 out of bounds (size: 544960, this: 0x3370300)
Error in <TArrayF::At>: index 548534 out of bounds (size: 544960, this: 0x3370300)
Error in <TArrayF::At>: index 548665 out of bounds (size: 544960, this: 0x3370300)

POINT EXECUTION *****

**** GTRIGI: IEVENT= 26432 IDEVT= 26432 Random Seeds = 1733690142 0

[INFO] FairPrimaryGenerator: (Event 26680) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 268420.294198 (ns)

POINT EXECUTION *****

**** GTRIGI: IEVENT= 26681 IDEVT= 26681 Random Seeds = 1733690142 0

[INFO] FairPrimaryGenerator: (Event 26681) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 268423.743886 (ns)

POINT EXECUTION *****

**** GTRIGI: IEVENT= 26682 IDEVT= 26682 Random Seeds = 1733690142 0

[INFO] FairPrimaryGenerator: (Event 26682) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 268429.837210 (ns)

kumar@ikp565:/private/kumar/pandaroot/macro/run/shyamana/dedxband> 1) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 268423.743886 (ns)

POINT EXECUTION *****

**** GTRIGI: IEVENT= 26682 IDEVT= 26682 Random Seeds = 1733690142 0

[INFO] FairPrimaryGenerator: (Event 26682) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 268429.837210 (ns)

kumar@ikp565:/private/kumar/pandaroot/macro/run/shyamana/dedxband>

Subject: Re: Problem in simulating 100000 particles
Posted by [Stefano Spataro](#) on Mon, 23 Sep 2013 08:17:15 GMT
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Your computer has not enough RAM memory, I think.
Try less events.

Subject: Re: Problem in simulating 100000 particles
Posted by [Shyam Kumar](#) on Mon, 23 Sep 2013 08:28:40 GMT
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Thank you for reply
can you give me some details of Pid by forward time of flight?
and in the macro plot_pid.C written by you which tof beta(GetToFBeta) you have taken for barrel or fTOF.

Subject: Re: Problem in simulating 100000 particles
Posted by [Stefano Spataro](#) on Mon, 23 Sep 2013 08:32:44 GMT

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There is no assigned PID available for tof and ftof, you have to do your own selection using beta or mass2.

Subject: Re: Problem in simulating 100000 particles
Posted by [Shyam Kumar](#) on Tue, 24 Sep 2013 08:22:50 GMT
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Hi,

I have run the simulation after the compile time of root file why it is giving error? Although I am able to open the root file in TBrowser.

```
kumar@ikp565:/private/kumar/pandaroot/macro/run/shyamana/dedxband> root -l
sim_complete1.root
root [0]
Attaching file sim_complete1.root as _file0...
Error in <TClonesArray::SetClass>: called with a null pointer
root [1]
```

Subject: Re: Problem in simulating 100000 particles
Posted by [Stefano Spataro](#) on Tue, 24 Sep 2013 10:22:23 GMT
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This is already known and it will be fixed soon. It does not affect the data.
