
Subject: Re: EvtGen - time information lost

Posted by [Dominik Steinschaden](#) on Mon, 13 Mar 2017 15:24:18 GMT

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Hi all,

as Stefano suggested, I modified PndEvtGenDirect.cxx.

it was not as straight forward, but finally it worked.

As expected the time information was not handled to the pndStack (primGen->AddTrack).
when I changed this I had the problem that the used Units didn't fit.

Meanwhile I figured out that EvtGen is providing the time information in [mm] (natural units
c=1)

and pndStack (more precise TParticle) is expecting time information in [s]. However I thought
PandaRoot is using [ns] as unit for time. Therefore I'm not sure if i really fixed it correctly.

So I also implemented the following line:

```
fT=vxyz.get(0)/(1000*TMath::C()); //mm - > s conversion
```

The File Attached shows now the time stamp distribution for the FTof. Now it looks like
expected!

I uploaded the changed file to

pandaroot/development/dsteinschaden/pgenerators/EvtGen/EvtGenDirect

If someone wants to have a look. otherwise I'll ask someone to merge it with the trunk

beside I'm not sure if I'm correct with this mm to second conversion, and if seconds or
nanoseconds should be used, I'm now worried about the timing information if other Generators
are used . . .

regards Dominik

File Attachments

1) [timestamps_EvtGen_fix1.png](#), downloaded 462 times

