
Subject: FairMCPoint trackID vs FairLink trackID.
Posted by [Lia Lavezzi](#) on Wed, 20 Oct 2010 17:17:58 GMT
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Hi Tobias,

I have a question on FairLink.
I tried to get the trackID from the simulated STTPoints, both with the fTrackID variable of FairMCPoint and from the FairLink, by doing:

```
cbmsim.Scan("STTPoint.fLinks.fType:STTPoint.fLinks.fIndex:STTPoint.fTrackID ")
```

I expected to find STTPoint.fLinks.fIndex always equal to STTPoint.fTrackID but I see that sometimes they are different.

How is it possible? In PndSttPoint there is:

```
PndSttPoint::PndSttPoint(Int_t trackID, Int_t detID, TVector3 pos,  
                        TVector3 posInLocal, TVector3 posOutLocal,  
                        TVector3 momIn, TVector3 momOut,  
                        Double_t tof, Double_t length, Double_t eLoss,  
                        Double_t mass)  
  : FairMCPoint(trackID, detID, pos, momIn, tof, length, eLoss)  
{  
  ...  
  SetLink(FairLink("MCTrack", trackID));  
}
```

...so trackID is the same in FairMCPoint and in FairLink.

I also printed the trackID during the simulation, in ProcessHits, to see whether it was equal to STTPoint.fLinks.fIndex or STTPoint.fTrackID and it is equal to STTPoint.fLinks.fIndex.

Another test I did: I tried the command line I wrote above (with the equivalent points) for MVD, GEM and MDT and I see differences between *Point.fLinks.fIndex and *Point.fTrackID there too.

The main question is: am I reading the link in the wrong way or is there some real problem? Do you have any suggestion?

Thank you in advance,
Lia.