
Subject: Re: MC Truth propagation with FairLinks in timebased sim
Posted by [Marcel Tiemens](#) on Tue, 08 Mar 2016 16:22:31 GMT

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But, what I want to test still doesn't work. If I compare with what's done in the default macros, which use PndEmcHitsToWaveform and PndEmcWaveformToDigi, these are the main differences:

1) PndEmcHitsToWaveform uses PndEmcWaveformWriteoutBuffer, and PndEmcFWEndcapTimebasedWaveforms uses PndEmcWaveformBuffer.

2) PndEmcWaveformToDigi uses a functor to get waveforms from a given timeslot in this way:
fDigiArray->Delete();

```
Double_t fevtTime = FairRootManager::Instance()->GetEventTime();
```

```
if(fTimeOrderedDigi){  
  if(FairRunAna::Instance()->IsTimeStamp()){  
    fWaveformArray->Delete();  
    Double_t time_length = 40.;//99.98%  
    if(fVerbose >0)  
      cout<<"--I-- time-based simulation, read data to later #"<<time_length<<" ns"<<endl;  
    fWaveformArray = FairRootManager::Instance()->GetData("EmcSortedWaveform"  
      , fFunctor  
      , fevtTime + time_length);  
  }  
  if(fVerbose>0)  
    std::cout<<"fDigiArrayTBD size  
  #"<<PndEmcDigi::fDigiArrayTBD->GetEntriesFast()<<std::endl;  
}  
Int_t nWaveforms = fWaveformArray->GetEntriesFast();  
...  
while PndEmcFWEndcapDigi just asks for the length of the waveform array right away:  
  fDigiArray->Delete();
```

```
Int_t nWaveforms = fWaveformArray->GetEntriesFast();
```

```
...  
That could be why it's not working. But the point is, it did work before! But with the new  
FairRoot and PandaRoot version not anymore...
```