
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...
