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Subject: Number of entries in TTree

Posted by [Dima Melnychuk](#) on Tue, 05 Jul 2011 11:19:02 GMT

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Dear colleagues,

I have observed a strangeness with number of entries in TTree for simulation, digitization, reconstruction and pid, i.e. these number are different and I expect them to be equal.

I do simulation with eta\_c macros from /macro/run/tdrct/eta\_c.  
With 2000 events simulation with trunk rev.12565

Running simple macro on produced data

```
void test_data()
{
  TString inSimFileName = "evt_points_stt.root";
  TString inDigiFileName = "evt_digi_stt.root";
  TString inRecoFileName = "evt_reco_stt.root";
  TString inPidFileName = "evt_pid_stt.root";

  TFile *inSimFile = TFile::Open(inSimFileName,"READ");
  TTree *treeSim=(TTree *) inSimFile->Get("cbmsim");

  TFile *inDigiFile = TFile::Open(inDigiFileName,"READ");
  TTree *treeDigi=(TTree *) inDigiFile->Get("cbmsim");

  TFile *inRecoFile = TFile::Open(inRecoFileName,"READ");
  TTree *treeReco=(TTree *) inRecoFile->Get("cbmsim");

  TFile *inPidFile = TFile::Open(inPidFileName,"READ");
  TTree *treePid=(TTree *) inPidFile->Get("cbmsim");

  std::cout<<"treeSim->GetEntriesFast()="<<treeSim->GetEntriesFast()<<std::endl;
  std::cout<<"treeDigi->GetEntriesFast()="<<treeDigi->GetEntriesFast()<<std::endl;
  std::cout<<"treeReco->GetEntriesFast()="<<treeReco->GetEntriesFast()<<std::endl;
  std::cout<<"treePid->GetEntriesFast()="<<treePid->GetEntriesFast()<<std::endl;
}
```

I have the following output

```
treeSim->GetEntriesFast()=2000
treeDigi->GetEntriesFast()=2001
treeReco->GetEntriesFast()=2002
treePid->GetEntriesFast()=2001
```

And those number are the same for stt and tpc simulation.

Should those numbers be equal?

Dima