
Subject: Recent updates about EMC packages (A)
Posted by [Jifeng Hu](#) on Fri, 17 Jan 2014 14:31:59 GMT
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(A) MC generation

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Class(source): PndEmc (EmcMC/PndEmc.cxx), producing MC points in EMC  
line      : 684 PndEmc.cxx  
Changes   : fTime = gMC->TrackTime(); //OLD  
           fTime = gMC->TrackTime()*1.e9; //NEW  
Purpose   : in unit of nano second, keep uniform style with other sub-detectors.
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Class(source): PndEmcHit (EmcData/PndEmcHit.cxx), modeling a hit in one EMC crystal.  
line      : 67 PndEmcHit.h,  
Changes   : Double32_t fTime;  
           //Double32_t fTime;  
Purpose   : comment off this data member. PndEmcHit is derived from FairHit (derived from  
FairTimeStamp), so this data member is repeated.  
line      : 47, 51 PndEmcHit.h,  
Changes   : virtual void SetTime(Double32_t time) { fTime = time; }  
           virtual void SetTime(Double32_t time) { SetTimeStamp(time); }  
Purpose   : keep the old interface, and pass the time to base class data members.
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Class(source): PndEmcHitProducer (EmcDigi/PndEmcHitProducer.cxx), producing emc hits for  
each fired crystal.
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line      : 302, PndEmcHitProducer.cxx  
Changes   : [add] myHit->SetTimeStampError(diffTime);  
Purpose   : Assign an error to time stamp of one hit, this error is the difference time between  
the first MC point and the last MC point. all points inside one crystal will sum up one hit.
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line      : 358, PndEmcHitProducer.cxx  
Changes   : [modify] point_time = point->GetTime()*1.e9 ==> point_time = point->GetTime();  
Purpose   : This unit convert is moved in PndEmc.cxx
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