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Subject: [FIXED] About negative track id -2  
Posted by [Jifeng Hu](#) on Mon, 27 Jan 2014 18:44:55 GMT  
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In simulation, we found negative values -2 of PndEmcPoint->GetTrackID(). Now I trace to PndStack class,

```
void PndStack::FillTrackArray() {  
    ...  
    for (Int_t iPart=0; iPart<fNParticles; iPart++) {  
        fStoreIter = fStoreMap.find(iPart);  
        ...  
        Bool_t store = (*fStoreIter).second;  
        if (store) {  
            ...  
        } else {  
            ...  
        }  
    }  
    // --> Map index for primary mothers  
    fIndexMap[-1] = -1;  
    Print(0);  
}
```

Here, first check a particle if it's to be stored. If not, the index map of fIndexMap are assigned to iPart with -2. iPart is the ith TMcParticle.

later, inside the function,

```
void PndStack::UpdateTrackIndex(TRefArray* detList) {  
    ...  
    FairDetector* det = NULL;  
    while ((det = (FairDetector*) detIter->Next())) {  
        // --> Get hit collections from detector  
        Int_t iColl = 0;  
        TClonesArray* hitArray;  
        while ((hitArray = det->GetCollection(iColl++))) {  
            nColl++;  
            Int_t nPoints = hitArray->GetEntriesFast();  
            // --> Update track index for all MCPoints in the collection  
            for (Int_t iPoint = 0; iPoint < nPoints; iPoint++) {  
                FairMCPoint* point = (FairMCPoint*) hitArray->At(iPoint);  
                Int_t iTrack = point->GetTrackID();  
                fIndexIter = fIndexMap.find(iTrack);  
                if (fIndexIter == fIndexMap.end()) {  
                    gLogger->Error(MESSAGE_ORIGIN,  
                        "PndStack: Particle index %i not found in index map! ",  
                        iTrack);  
                    Fatal("PndStack::UpdateTrackIndex",
```

```
    "Particle index not found in map");
}
//std::cout << "point->SetTrackID() " << (*fIndexIter).second << std::endl;
//    std::cout << "Header->GetEventID() " << header->GetEventID() << std::endl;
point->SetLink(FairLink(-1, (header->GetEventID()-1), "MCTrack", (*fIndexIter).second));
}

} // Collections of this detector
} // List of active detectors
....
```

The new track id was translated with the map of fIndexMap, and -2 was passed.  
Anyone could tell me why we make this translation, and why save to fIndexMap for tracks we  
dont store?

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Subject: Re: About negative track id -2  
Posted by [StefanoSpataro](#) on Wed, 12 Feb 2014 15:11:41 GMT  
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Hi,  
I have fixed this problem. Simply the PndStack was not properly filled by SciTil and EMC.

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