
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*) detList->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++) {
                FairMCPPoint* point = (FairMCPPoint*) 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?
