Subject: Re: sigfault during EMC reco Posted by Dima Melnychuk on Tue, 19 Feb 2008 14:12:37 GMT View Forum Message <> Reply to Message

Hi again,

I will try to explain concerning "PndEmcTwoCoordIndex\* fTCI" pointer.

So, each crystal is characterised by 1 integer number fDetectorID or by 2 indexes (theta, phi integer indexes for barrel or X,Y indexes for endcup). These 2 integer indexes are combined into the object of PndEmcTwoCoordIndex class, which except these 2 indexes contains also references to the same object of neighboring crystals. This is used in the clustering algorithm. And the list of neighboring crystals is filled in the PndEmcMapper.

So each PndEmcDigi contain fDetectorID and \*fTCI. And in principle fDetectorID uniquely identify \*fTCI, but the last is more convenient for clustering algorithm.

But the \*fTCI pointer is transient data member since root have problem with persistency of object which has indirect reference to itself.

So after PndEmcDigi is read from the root file the fTCI data should be restored. And the method PndEmcDigi::ValidateTCI() does this. My original idea was to use custom streamer for this purpose but it appears that for some cases it work and for some don't . So the error which you reported today shows that fTCI data restored by custom streamer and restored by ValidateTCI() are inconsistent.

It will need further investigation.

Best regards, Dima

Page 1 of 1 ---- Generated from GSI Forum