Subject: Re: Error during PndTpcElectronicsTask
Posted by Felix Boehmer on Mon, 20 Dec 2010 16:55:49 GMT

Dear Stefano,

The problem seen by Tobias Weber could be really anything - to me this just looks like CINT stumbled into some kind of uncontrolled behavior (maybe due to bad alloc).

Generally, the cross-reference to other TPC objects via pointers was necessary at the time they were introduced, since no such mechanism existed prior to Tobias' FairLink approach. It maybe is not pretty, but is no bit worse than keeping index lists to TClonesArray entries - also in terms of memory consumption!

If the crashes are really connected to this but only appear when the FairLinks are used, then it looks like handling of objects members with pointer type is not done correctly inside the FairLinks (considering also that the cross-reference using pointers inside the TPC classes has been around for wuite some time).

Can the people who experience these crashes please try to reproduce this problem with and without FairLinks, keeping an eye on memory consumption at the time of the crash (a simple "top" should suffice). Also it might help to compile the macros used for a more sensible crash stack.
Right now it is really hard to hunt down the problem, as I have never seen these crashes for myself, nor am I familiar what happens inside the FairLinks in full detail.

Cheers

Felix