Subject: A bug in FairRootManager
Posted by Jifeng Hu on Tue, 14 Jan 2014 15:03:32 GMT

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The Data Exchange between tasks is supported by FairRootManager.
In normal, different TClonesArray in many tasks are created and registered in
FairRootManager, then also could be retrieved. FairRootManager provides many interfaces to
do that.

For example, create and register a TClonesArray in a way
(A)
fEmcDigiArray = new TClonesArray("PndEmcDigi");// PndEmcDigi, Class Name
FairRootManager::Instance()->Register("EmcDigi", "Emc", fEmcDigiArray, kTRUE);
where "PndEmcDigi" is the Class Name, "EmcDigi" is the Branch Name, "Emc" is the Folder
Name.

or another way,
(B)
fEmcDigiArray = FairRootManager::Instance()->Register("EmcDigi", "PndEmcDigi", "Emc",
kTRUE);

However, when we want to retrieve this branch,
fEmcDigiArrayRef = FairRootManager::Instance()->GetTClonesArray("EmcDigi");

retrieval fails when in way of (A), and succeeds in way of (B).

The reason for that is a bug inside FairRootManager.
When invoking (B), an active container (std::map) was filled, and skipped when invoking (A).

So please either uniform a standard interface or make a new logic.

Subject: Re: A bug in FairRootManager
Posted by StefanoSpataro on Tue, 14 Jan 2014 16:56:00 GMT

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Dear Jifeng,
since this topic is about base classes and not pandaroot, it would be better to post it under
fairroot topic here. At least they can check and modify the code, we cannot.