Subject: Saving geometry inside FairBaseParSet
Posted by StefanoSpataro on Tue, 03 Jul 2012 10:05:32 GMT

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Dear fairroot experts,
let's assume I want to analyse some MVD experimental data stored inside a root file. I have already a task (unpacker) reading the file and converting data into pandaroot format. My main problem is that I need to use the geometry for the reconstruction tasks (i.e. position of sensors).

If I have to run the simulation, with FairRunSim, I add my module to the geometry and it is stored inside the parameter file under the FairBaseParSet container. Ok.

If I run my unpacker (which is a task) not starting from a simulation but from an external file, I have to use FairRunAna and I cannot add the module. I have seen there is the function:

Quote:fRun->SetGeomFile(geomFile);

which is loading my geometry file, under TGeoManager format.
My main concern is that in this way the geometry is loaded but it is not stored as FairBaseParSet, and my output param file does not contain it. I need FairBaseParSet container for further data processing.

In my task I put, in the SetParContainers() function:

```
  FairRuntimeDb* rtdb=ana->GetRuntimeDb();
  FairBaseParSet* par=(FairBaseParSet*)(rtdb->getContainer("FairBaseParSet"));
  rtdb->initContainers(ana->GetRunId());
```

but still FairBaseParSet is not saved.

Is it a bug of fairroot, or simply I should do something different?
Any help would be very appreciated.

Regards

Subject: Re: Saving geometry inside FairBaseParSet
Posted by Mohammad Al-Turany on Wed, 11 Jul 2012 17:18:03 GMT

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Hallo Stefano,

You need to modify your function to:

```
  FairRuntimeDb* rtdb=ana->GetRuntimeDb();
  FairBaseParSet* par=(FairBaseParSet*)(rtdb->getContainer("FairBaseParSet"));
  par->SetGeometry(gGeoManager);
  par->setChanged();
  par->setInputVersion(ana->GetRunId(),1);
```

In fact we could also automate the saving of geometry from the FairRunAna if this is needed by all, in any case please test the above stuff and let me know.

regards,

Mohammad

Subject: Re: Saving geometry inside FairBaseParSet
Posted by StefanoSpataro on Wed, 11 Jul 2012 18:09:21 GMT
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Hi,
You mean in the digitization macro or in the reconstruction task? Or in both?

Subject: Re: Saving geometry inside FairBaseParSet
Posted by Mohammad Al-Turany on Wed, 11 Jul 2012 18:18:27 GMT
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Hi Stefano,

In the reconstruction task, the method SetParContainers().

Mohammad