Subject: Question about Tasks
Posted by Felix Boehmer on Wed, 11 Jul 2007 10:04:05 GMT
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Hello there,

I have a question about the structure of (Cbm-)Tasks. Currently I am adding a small new Task that simulates a laser calibration system for the tpc.
Since this Task is independent of the MC track creation and thus of the number of events in the simulation run, I use Init() to let it do what it should do...

My problem now is this: The output of this new task are straight tracks in the tpc, TClonesArrays. They are independent of the real MC events as I said, but of course they should be treated like real tracks after their creation. So I want to create them at the beginning of the digitization macro and then put them into the same "early" tree branch where the "real" tracks are in. How can I do this? I did not see a function of the CbmRootManager that allows this.

Is this even possible, since the tree structure depends on the number of events? Or do I have to write that into the tree manually somehow?

Thanks in advance

Felix

Subject: Re: Question about Tasks
Posted by StefanoSpataro on Wed, 11 Jul 2007 10:16:14 GMT
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Hi,
It is not clear to my mind what exactly does your task. Could you please be more explicit?

I suppose you create something inside some event, if you do not have event you cannot launch analysis tasks.
Maybe it could be better to create what you creates inside the first event, thus inside the Exec function. From this event you can run whatever task/macro you want.
If you do what you want in the Init I fear that you will miss something, I do not think that you can write in the tree at that stage of the program.

I don't know if I was clear enough, maybe if you describe with more details what you want to do, it could be easier to find the solution.
Bye

Ste

Subject: Re: Question about Tasks
Posted by Felix Boehmer on Wed, 11 Jul 2007 11:23:46 GMT

Mhm, I am going to do it differenty now, forget my question

But for your understanding, let my try to describe it better.

Suppose we have a task that analyses MC events and creates data containers, for example TClonesArrays of Points. This is done in a digitalization macro for a given number of MC events.
Would it be possible to have a task that, for example, creates another array of points, independently of the MC events that are processed in the macro? That means, we don't want it to be executed for every event with Exec(), we just want to execute it once, but still allow it to create additional data in the output tree...

Consider this a general question now please, because my specific problem was solved by sudden appearance of wisdom.

Subject: Re: Question about Tasks
Posted by Ralf Kliemt on Wed, 11 Jul 2007 11:39:08 GMT

Hi Felix,

I would write a method in my task that is called inside the Init(), preferably as last step.

Ralf.

Subject: Re: Question about Tasks
Posted by Felix Boehmer on Wed, 11 Jul 2007 11:51:25 GMT

Yes, sure.

I mean something different, but the longer I think of a proper way to describe it, the more I think it is probably the best idea to let it go now

Suppose we have a run with 10 events. Imagine someone (me), who wants to have a digitization task create an 11th event in the output tree that is independent of the real events, that is then passed to all the remaining digitization tasks to be treated like the 10 real events.

Is that even possible.... in theory?