
Subject: Re-Run in FairRunSim

Posted by [GGarJim](#) on Wed, 28 Oct 2020 16:12:57 GMT

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Hi all,

I need to run several iterations of a simulation with the same instance of FairRunSim, but it crashes while entering in the second iteration (first iteration is fine). I think the problem is that Init() is trying to create a second instance of a singleton (FairGeoLoader). If I not define Init() it crashes without further explanations. Example:

```
// ----- Initialize simulation run -----
run->Init();

Bool_t kParameterMerged = kTRUE;
FairParRootFileIo* parOut = new FairParRootFileIo(kParameterMerged);
parOut->open(ParFile.Data());
rtdb->setOutput(parOut);
rtdb->saveOutput();
rtdb->print();

// ----- Start run -----
if (nEvents > 0)
    run->Run(nEvents);

// ---- Fine until here -----

run->Init();

if (nEvents > 0)
    run->Run(nEvents);

//----- Crashes -----
```

Any idea of how to solve this?

Many thanks!

Subject: Re: Re-Run in FairRunSim

Posted by [Mohammad Al-Turany](#) on Wed, 28 Oct 2020 17:26:13 GMT

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Hi,

This functionality is not foreseen. What do you change in the second init?
In analysis (FairRunAna) there is a reinit function which is used when parameters change for example between different files.

best,

Mohammad

Subject: Re: Re-Run in FairRunSim

Posted by [GGarJim](#) on Wed, 28 Oct 2020 17:37:01 GMT

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Hi,

We have prepared a root file with several versions of the same set of parameters, so the idea was to generate simulated events using those parameters, changing the version before each Init(). Of course we could just generate several simulated files and merge them after, but it would be great if this could be done in a single step. Btw, we can just use FairRunAna to check this.

Subject: Re: Re-Run in FairRunSim

Posted by [Mohammad Al-Turany](#) on Wed, 28 Oct 2020 17:51:26 GMT

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Hi,

I assume you mean simulation parameters? Unfortunately this is not supported in the simulation, however instead of merging you can chain your single files (produced with different parameters sets) for the next step.

best,

Mohammad

Subject: Re: Re-Run in FairRunSim

Posted by [GGarJim](#) on Thu, 29 Oct 2020 09:29:23 GMT

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That's a good idea. Thank you very much for your help.

Cheers!
