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Subject: Re: How to create more than one output event in FairTask  
Exec()-function?

Posted by [Jan Mayer](#) on Wed, 27 Mar 2019 12:16:01 GMT

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Quote: This will then produce 4 distinct .root-files, all with their own digitizer output tree. Hence, I wanted to write another FairTask that does nothing more than merging these 4 files into one.

Aha! Now we're talking.

Quote: Hence my question: can I manually call a write & reset function for the output TClonesArray?

You don't need to do that. At all.

I mean, if you think about it, this must be such a common problem! Everyone would face that at some point, right? Even the experimental data is split into multiple files automatically. Since decades, people would have to work with that, right? Having their code run over terabytes of data in hundreds of root files!

There are two main solutions: Add the file contents together to form a new large file with "hadd" (not recommended), or simply tell ROOT that the input is split over multiple files - in ROOT terms, that is called a "TChain".

The FairRoot equivalent / abstraction is in "FairFileSource", which has a function "AddFile", which does what it says.

```
/**Add ROOT file to input, the file will be chained to already added files*/  
void AddFile(TString FileName);
```