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Subject: [FIXED] Produce ROOT file with FairRoot Structure

Posted by [wesmail](#) on Mon, 19 Mar 2018 12:24:35 GMT

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Dear experts,

I have a ROOT file that contains probability distributions of different particles (e, mu, pi, k, p) stored in TClonesArray "branch named PidAlgoM1" (image 1), but I want it to be of the same structure of image 2, that is the branch "PidAlgoM1" inside folder "Pid" which is inside folder "cbmout". How to do this using PANDARoot or FairROOT classes.

Thank you very much in advance,

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### File Attachments

1) [1.png](#), downloaded 1456 times



File Edit View Terminal Tabs Help

wesmail@wesmail-X580VD: ~/findspark-1.1.0

```
wesmail@wesmail-X580VD:~/findspark-1.1.0$ root -l outFile.root
```

```
root [0]
```

```
Attaching file outFile.root as _file0...
```

```
IncrementalExecutor::executeFunction: symbol '_ZN5cling10printValue
```

```
You are probably missing the definition of cling::printValue(void c
```

```
Maybe you need to load the corresponding shared library?
```

```
(TFile *) Error in ValuePrinter: missing output string.
```

```
root [1] new TBrowser
```

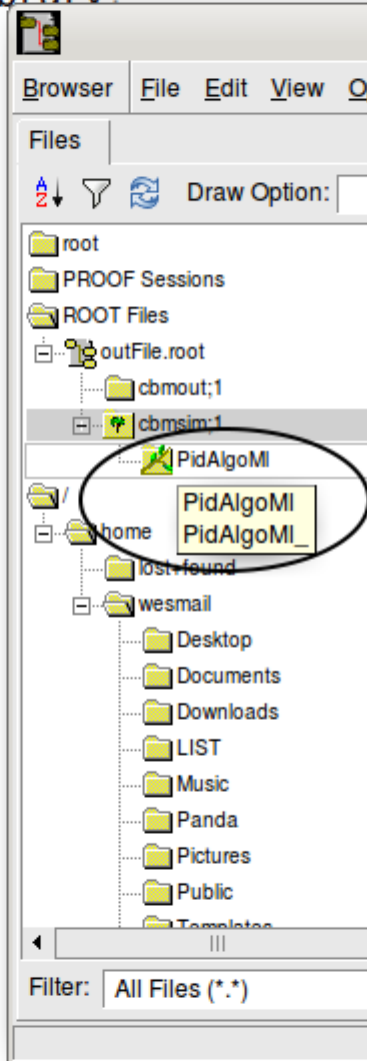
```
IncrementalExecutor::executeFunction: symbol '_ZN5cling10printValue
```

```
You are probably missing the definition of cling::printValue(void c
```

```
Maybe you need to load the corresponding shared library?
```

```
(TBrowser *) Error in ValuePrinter: missing output
```

```
root [2] 
```



2) [2.png](#), downloaded 1298 times



wesmail@wesmail-X580VD: ~/findspark-1.1.0

```
wesmail@wesmail-X580VD:~/findspark-1.1.0$ root -l outFile.root
root [0]
```

Attaching file outFile.root as \_file0...

```
IncrementalExecutor::executeFunction: symbol '_ZN5cling10printValue
You are probably missing the definition of cling::printValue(void c
Maybe you need to load the corresponding shared library?
(TFile *) Error in ValuePrinter: missing output string.
```

```
root [1] new TBrowser
```

```
IncrementalExecutor::executeFunction: symbol '_ZN5cling10printValue
You are probably missing the definition of cling::printValue(void c
Maybe you need to load the corresponding shared library?
(TBrowser *) Error in ValuePrinter: missing output
```

```
root [2] .q
```

```
wesmail@wesmail-X580VD:~/findspark-1.1.0$ root -l s
```

```
root [0]
```

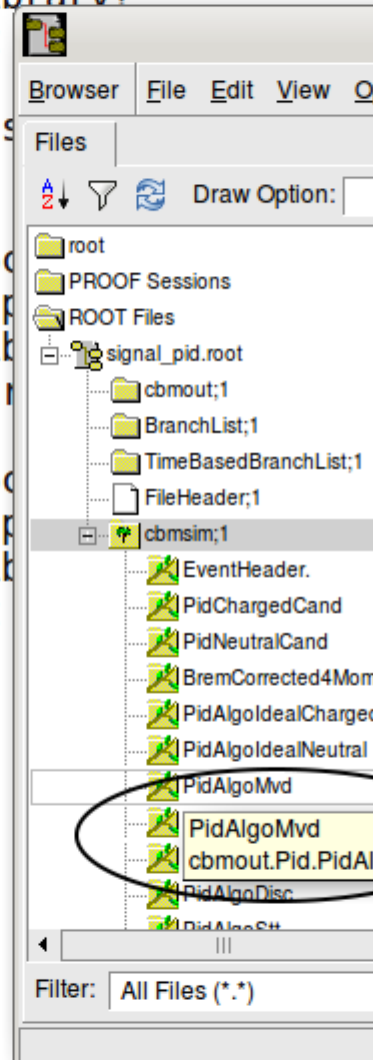
Attaching file signal\_pid.root as \_file0...

```
IncrementalExecutor::executeFunction: symbol '_ZN5c
You are probably missing the definition of cling::p
Maybe you need to load the corresponding shared lib
(TFile *) Error in ValuePrinter: missing output str
```

```
root [1] new TBrowser
```

```
IncrementalExecutor::executeFunction: symbol '_ZN5c
You are probably missing the definition of cling::p
Maybe you need to load the corresponding shared lib
(TBrowser *) Error in ValuePrinter: missing output
```

```
root [2] □
```



Subject: Re: Produce ROOT file with FairRoot Structure  
Posted by [Stefano Spataro](#) on Mon, 19 Mar 2018 12:42:33 GMT

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How have you created your container? The proper way is using a Task which fills for each event and each PidCandidate the proper probabilities.

The correct way is shown, as example, in pid/PidClassifier/PndPidDrcAssociatorTask class, which is quite simple. You have to follow such structure, just change the name of the classes and the numbers you put inside.

cbmout.pid.XXX is not business of the developer if you use the suggested structure. Anyway, the line which write your container inside pid is:

```
FairRootManager::Instance()->Register("PidAlgoDrc","Pid", fPidChargedProb, kTRUE);
```

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Subject: Re: Produce ROOT file with FairRoot Structure  
Posted by [wesmail](#) on Mon, 19 Mar 2018 13:20:46 GMT

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Dear Stefano,

thank you very much for your instant reply. I am aware of the associator task, but I don't know how to use it because at Init() method it tries to get the TClonesArray from the input file and I face the same problem ("PidAlgoMl is not in cbmout folder" because my file is not in the same RootFair structure) and crashes.

N.B I fill the TClonesArray in a python program independent of FairRoot package, but I can access FairRoot from python. How to use Register method independent from associator Task?!

Thank you again,

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Subject: Re: Produce ROOT file with FairRoot Structure  
Posted by [Stefano Spataro](#) on Mon, 19 Mar 2018 13:26:27 GMT

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The starting point is a TClonesArray filled with PidCandidate objects, event by event. For each event, for each PidCandidate, the Associator produces a PidProbability object, and registers it. Without the input PidCandidate you cannot fill the probabilities.

Other ways to fill TCAs, such us using python, are not using the fairroot tree and are not compatible. Register is a function of fairroot, then you cannot use it in python.

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Subject: Re: Produce ROOT file with FairRoot Structure  
Posted by [Waleed Esmail](#) on Wed, 21 Mar 2018 09:13:38 GMT

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thank you very much, I solved the problem by reading the output python file explicitly in the Init() method of the associator task, and register the output to have the same branch structure of FairRoot.

Thanks again for your help

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