
Subject: analysis of multiple files

Posted by [Dmitry Khanef](#) on Wed, 06 Jun 2012 14:02:06 GMT

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Dear all,

I want to perform mixed analysis of my signal and background files. I have 2 sets of sim/digi/reco/pid/par files. I looked into the FairRunAna code and as I understood I should use following functions

```
// *** the files coming from the simulation
TString inSimFile = "./data/epem_mom3.3_gegm0.0_seed1001sim.root"; // this file contains
the MC truth
TString inRecoFile = "./data/epem_mom3.3_gegm0.0_seed1001reco.root";
TString inPidFile = "./data/epem_mom3.3_gegm0.0_seed1001pid.root"; // this file contains
the PndPidCandidates
//TString inParFile = "./data/epem_mom3.3_gegm0.0_seed1001params.root";

TString inSimFile_bg = "./data/pipi_mom3.3_costheta0.9_seed10000sim.root"; // this file
contains the MC truth
TString inRecoFile_bg = "./data/pipi_mom3.3_costheta0.9_seed10000reco.root";
TString inPidFile_bg = "./data/pipi_mom3.3_costheta0.9_seed10000pid.root"; // this file
contains the PndPidCandidates
//TString inParFile_bg = "./data/pipi_mom3.3_costheta0.9_seed10000params.root";

// *** initialization
FairRunAna* fRun = new FairRunAna();
FairRuntimeDb* rtdb = fRun->GetRuntimeDb();
// *** add signal files
fRun->SetInputFile(inSimFile);
fRun->AddFriend(inPidFile);
fRun->AddFriend(inRecoFile);
// *** add background files
fRun->SetBackgroundFile(inSimFile_bg);
fRun->AddBackgroundFile(inPidFile_bg);
fRun->AddBackgroundFile(inRecoFile_bg);
```

and for parameter files I did following

```
TFile *file_sig = new TFile("./data/epem_mom3.3_gegm0.0_seed1001params.root","READ");
TFile *file_bg = new
TFile("./data/pipi_mom3.3_costheta0.9_seed10000params.root","READ");

TList *list = new TList();
list->Add(file_sig);
list->Add(file_bg);

FairParRootFileIo* parIO = new FairParRootFileIo();
parIO->open(list);
```

```
rtdb->setFirstInput(parlO);
```

the problem is that I have no entries in the analysis loop after this.

What is wrong in my code?

Also, what should I do if I have multiple signal and background events?

Thanks in advance,
Dmitry
