
Subject: Re: PROOF in FairRoot

Posted by [StefanoSpataro](#) on Sat, 31 Mar 2012 12:16:55 GMT

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Hi radek,

I have tried to run some amcro with proof.

First of all, if I have understood well proof does not work with simulation but only with reconstruction.

I produced a sim file with standard macro/pid/run_sim_sttcombi_pgun.C"(100)", everything fine.

Then I have tried to run the macro/digi/run_digi_sttcombi.C using only the first task putting FairRunAna("proof"), using only the PndSttHitProducerRealFast task.

This is the output:

```
Toggle Spoilerspataro@briareos:~/jan12/pandaroot/macro/proof$ rt run_digi_sttcombi.C
root [0]
Processing run_digi_sttcombi.C...
FairRootManager::OpenOutFile("digi_sttcombi.root")
[INFO ] The input consists out of the following trees and files:
[INFO ] - cbmsim
[INFO ] - points_sttcombi.root
FairRunAna::RunOnProof(0,0): running FairAnaSelector on proof server: "" with PAR file name
= "$VMCWORKDIR/gconfig/libFairRoot.par".
+++++++ T P R O O F ++++++++
creating TProof* proof = TProof::Open("");
+++ Starting PROOF-Lite with 8 workers +++
Opening connections to workers: OK (8 workers)
Setting up worker servers: OK (8 workers)
PROOF set to parallel mode (8 workers)
+++++++ C R E A T E D ++++++++
EXECUTING libFairRoot.par/SETUP.C without includes
Function SETUP_c7827247() busy. loaded after
"/home/spataro/jan12/pandaroot/gconfig/rootlogon.C"
Error: G__unloadfile() Can not unload "/home/spataro/jan12/pandaroot/gconfig/rootlogon.C",
file busy /tmp/SETUP_c7827247.C:20:
Note: File "/home/spataro/jan12/pandaroot/gconfig/rootlogon.C" already loaded
*** Interpreter error recovered ***
DONT MIND THE ERRORS HERE, ITS EXECUTED.
*** Package cache client:/home/spataro/.proof/packages ***
totale 4
drwxr-x--- 3 spataro spataro 4096 2011-10-31 13:34 libFairRoot
lrwxrwxrwx 1 spataro spataro 53 2012-03-31 13:04 libFairRoot.par ->
/home/spataro/jan12/pandaroot/gconfig/libFairRoot.par
```

FairRunAna::RunOnProof(): The chain seems to have 100 entries.

FairRunAna::RunOnProof(): There are 1 files in the chain.

FairRunAna::RunOnProof(): Starting inChain->Process("FairAnaSelector", "", 0,0)

Info in <TProofLite::SetQueryRunning>: starting query: 1

```

Info in <TProofQueryResult::SetRunning>: nwrks: 8
-l- FairAnaSelector::Begin()
Looking up for exact location of files: OK (1 files)
Looking up for exact location of files: OK (1 files)
Info in <TPacketizerAdaptive::TPacketizerAdaptive>: Setting max number of workers per node
to 8
Validating files: OK (1 files)
Info in <TPacketizerAdaptive::InitStats>: no valid or non-empty file found: setting invalid
Error in <TProofPlayerLite::InitPacketizer>: instantiated packetizer object 'TPacketizerAdaptive'
is invalid
Error in <TProofPlayerLite::Process>: cannot init the packetizer
Info in <TProofLite::UpdateDialog>: processing was aborted - 0 events processed
FairRunAna::RunOnProof(): inChain->Process DONE

```

```

-----
----- actual containers in runtime database -----
----- runs, versions -----
run id
  container          1st-inp  2nd-inp  output
----- input/output -----

```

first Input:

OBJ: FairParRootFile params_sttcombi.root : 0 at: 0x16993f0

Root file I/O params_sttcombi.root is open

detector I/Os: FairGenericParlo

second Input:

Ascii I/O /home/spataro/jan12/pandaroot/macro/params/all.par is open

detector I/Os: FairGenericParlo

output: none

Macro finished succesfully.

Output file is digi_sttcombi.root

Parameter file is params_sttcombi.root

Real time 4.53082 s, CPU time 0.37 s

It says "finished succesfully" but in reality it has processed nothing, the output file is empty, and there are many errors as you can see.

Then I have tried your example in the website, but it produces errors the same:

Toggle Spoiler

```
spataro@briareos:~/jan12/pandaroot/macro/global$ rt
```

```
root [0] .x tracks_BARREL_1000.C("proof",10)
```

```
FairRootManager::OpenOutFile("tracks_22Part_n10000.root")
```

```
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
```

```
Info in <PndSdsHybridHitProducer::PndSdsHybridHitProducer>: MVD Hybrid Hit Producer
created, Parameters will be taken from RTDB
```

```
[INFO ] The input consists out of the following trees and files:
```

```
[INFO ] - cbmsim
```

```
[INFO ] - /home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f0.root
```

```
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f1.root
```

```
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f2.root
```

```

[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f3 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f4 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f5 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f6 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f7 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f8 .root
[INFO ] - file:///home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f9 .root
FairRunAna::RunOnProof(0,10000): running FairAnaSelector on proof server: "" with PAR file
name = "$VMCWORKDIR/gconfig/libFairRoot.par".
+++++++ T P R O O F ++++++
creating TProof* proof = TProof::Open("");
+++ Starting PROOF-Lite with 8 workers +++
Opening connections to workers: OK (8 workers)
Setting up worker servers: OK (8 workers)
PROOF set to parallel mode (8 workers)
+++++++ C R E A T E D ++++++
EXECUTING libFairRoot.par/SETUP.C without includes
Function SETUP_c7827247() busy. loaded after
"/home/spataro/jan12/pandaroot/gconfig/rootlogon.C"
Error: G__unloadfile() Can not unload "/home/spataro/jan12/pandaroot/gconfig/rootlogon.C",
file busy /tmp/SETUP_c7827247.C:20:
Note: File "/home/spataro/jan12/pandaroot/gconfig/rootlogon.C" already loaded
*** Interpreter error recovered ***
DONT MIND THE ERRORS HERE, ITS EXECUTED.
*** Package cache client:/home/spataro/.proof/packages ***
totale 4
drwxr-x--- 3 spataro spataro 4096 2011-10-31 13:34 libFairRoot
lrwxrwxrwx 1 spataro spataro 53 2012-03-31 14:05 libFairRoot.par ->
/home/spataro/jan12/pandaroot/gconfig/libFairRoot.par

```

```

FairRunAna::RunOnProof(): The chain seems to have 10000 entries.
FairRunAna::RunOnProof(): There are 10 files in the chain.
FairRunAna::RunOnProof(): Starting inChain->Process("FairAnaSelector","",10000,0)
Error in <TClass::New>: cannot create object of class FairRuntimeDb
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Warning in <TClass::TClass>: no dictionary for class pair<double,FairTimeStamp> is
available
Warning in <TClass::TClass>: no dictionary for class PndSdsPixelBackMapping is available
Error in <TStreamerInfo::Build:>: PndSdsPixelClusterTask: PndSdsPixelBackMapping* has no
streamer or dictionary, data member fBackMapping will not be saved
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation
Warning in <TClass::TClass>: no dictionary for class BinaryFunctor is available
Error in <TStreamerInfo::Build:>: PndSdsStripClusterTask: BinaryFunctor* has no streamer or
dictionary, data member fFunctor will not be saved
Error in <TClass::BuildRealData>: Cannot find any ShowMembers function for
PndSdsCalcStrip!
Error in <TClass::New>: cannot create object of class PndSdsChargeWeightingAlgorithms
Warning in <TStreamerSTL::TStreamerSTL>: For vector<TrackBasis> we could not find any

```

information about the type TrackBasis1 vector
Warning in <TStreamerSTL::TStreamerSTL>: For vector<TrackBasis> we could not find any information about the type TrackBasis1 vector
Info in <PndSdsHybridHitProducer::PndSdsHybridHitProducer>: MVD Hybrid Hit Producer created, Parameters will be taken from RTDB
Info in <PndSdsHybridHitProducer::PndSdsHybridHitProducer>: MVD Hybrid Hit Producer created, Parameters will be taken from RTDB

Info in <TProofLite::SetQueryRunning>: starting query: 1
Info in <TProofQueryResult::SetRunning>: nwrks: 8
-I- FairAnaSelector::Begin()
Looking up for exact location of files: OK (10 files)
Looking up for exact location of files: OK (10 files)
Info in <TPacketizerAdaptive::TPacketizerAdaptive>: Setting max number of workers per node to 8
Validating files: OK (10 files)
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:
+++ Message from master at briareos : marking briareos:-1 (0.4) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.4) as bad
+++ Reason: received kPROOF_FATAL

+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("**")

Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:
+++ Message from master at briareos : marking briareos:-1 (0.1) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.1) as bad
+++ Reason: received kPROOF_FATAL

+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("**")

Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:
+++ Message from master at briareos : marking briareos:-1 (0.0) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.0) as bad
+++ Reason: received kPROOF_FATAL

+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")

Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:

+++ Message from master at briareos : marking briareos:-1 (0.7) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.7) as bad
+++ Reason: received kPROOF_FATAL

+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")

Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:

+++ Message from master at briareos : marking briareos:-1 (0.2) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.2) as bad
+++ Reason: received kPROOF_FATAL

+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")

Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:

+++ Message from master at briareos : marking briareos:-1 (0.3) as bad
+++ Reason: received kPROOF_FATAL

+++ Message from master at briareos : marking briareos:-1 (0.3) as bad
+++ Reason: received kPROOF_FATAL

```
+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")
```

```
Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:
+++ Message from master at briareos : marking briareos:-1 (0.5) as bad
+++ Reason: received kPROOF_FATAL
```

```
+++ Message from master at briareos : marking briareos:-1 (0.5) as bad
+++ Reason: received kPROOF_FATAL
```

```
+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")
```

```
Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
Info in <TProofLite::MarkBad>:
+++ Message from master at briareos : marking briareos:-1 (0.6) as bad
+++ Reason: received kPROOF_FATAL
```

```
+++ Message from master at briareos : marking briareos:-1 (0.6) as bad
+++ Reason: received kPROOF_FATAL
```

```
+++ Most likely your code crashed
+++ Please check the session logs for error messages either using
+++ the 'Show logs' button or executing
+++
+++ root [] TProof::Mgr("briareos")->GetSessionLogs()->Display("*")
```

```
Error in <TPacketizerAdaptive::SplitPerHost>: The input list contains no elements
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 0.000000
-I- FairAnaSelector::Terminate(): fOutput->Is()
OBJ: TSelectorList   TSelectorList   Special TList used in the TSelector : 0
OBJ: TList   MissingFiles   Doubly linked list : 0
-I- FairAnaSelector::Terminate(): -----
Lite-0: all output objects have been merged
FairRunAna::RunOnProof(): inChain->Process DONE
```

```
-----
----- actual containers in runtime database -----
----- runs, versions -----
run id
container                1st-inp  2nd-inp  output
```

----- input/output -----

first Input:

OBJ: FairParRootFile

/home/spataro/jan12/pandaroot/macro/global/params_22Part_n1000.root : 0 at: 0x1221950

Root file I/O /home/spataro/jan12/pandaroot/macro/global/params_22Part_n1000.root is open

detector I/Os: FairGenericParlo

second Input:

Ascii I/O /home/spataro/jan12/pandaroot/macro/params/all.par is open

detector I/Os: FairGenericParlo

output: none

Macro finished succesfully.

Output file is tracks_22Part_n10000.root

Parameter file is /home/spataro/jan12/pandaroot/macro/global/params_22Part_n1000.root

Real time 4.68346 s, CPU time 0.49 s

root [1] .q

What is going wrong?

Moreover, one question.

Trying to use different tasks I had several errors, which I have solved simply putting //! for the private objects of the tasks, which however should not be streamed.

But reading your comment on the site I have not well understood if this is safe or no. And if it is not, how to fix it properly?