
Subject: Re: PROOF in FairRoot

Posted by [Radoslaw Karabowicz](#) on Wed, 04 Apr 2012 19:22:24 GMT

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Dear Stefano,

As I said before the tasks have to be properly initialized or their members be switched off for streaming (//!). This I did not commit to SVN yet. I will do it probably tomorrow when I find some time to do it properly.

I've just got the plain pandaroot trunk and can see the same errors that you have when running with MVD and STT. From my experience I think it is the MVD that causes most of the problems. However when I switch them off, the PROOF does what it should.

So, can you just make a quick check and comment out all the tasks, leaving only GEM digitizer and hit finder?

Below you can see the running with only GEM:

```
Quote:karabowi@lxi047::~~/pandaroot_15235/trunk/macro/global$ root -l -q
'tracks_BARREL_1000.C("proof",4)' root [0]
Processing tracks_BARREL_1000.C("proof",4)...
FairRootManager::OpenOutFile("tracks_22Part_n4000.root")
[INFO ] The input consists out of the following trees and files:
[INFO ] - cbmsim
[INFO ] - /misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n1000_f0
.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f1.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f2.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f3.root
FairRunAna::RunOnProof(0,4000): 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 ++++++
0309: ClearPackages
0309: UploadPackages
0309: EnablePackages
EXECUTING libFairRoot.par/SETUP.C without includes
Function SETUP_c7827247() busy. loaded after
"/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C"
Error: G__unloadfile() Can not unload
"/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C", file busy
/tmp/SETUP_c7827247.C:20:
Note: File "/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C" already loaded
```

```

*** Interpreter error recovered ***
DONT MIND THE ERRORS HERE, ITS EXECUTED.
0309: ShowPackages
*** Package cache client:/misc/karabowi/.proof/packages ***
total 0
drwxr-x--- 3 karabowi had1 22 31. Okt 13:34 libFairRoot
lrwxrwxrwx 1 karabowi had1 60 4. Apr 21:10 libFairRoot.par ->
/misc/karabowi/pandaroot_15235/trunk/gconfig/libFairRoot.par

0309: Done
FairRunAna::RunOnProof(): The chain seems to have 4000 entries.
FairRunAna::RunOnProof(): There are 4 files in the chain.
FairRunAna::RunOnProof(): Starting inChain->Process("FairAnaSelector","",4000,0)

Info in <TProofLite::SetQueryRunning>: starting query: 1
Info in <TProofQueryResult::SetRunning>: nwrks: 8
Error in <TGSpeedo::TGSpeedo::Build>: speedo.gif not found
-I- FairAnaSelector::Begin()
Looking up for exact location of files: OK (4 files)
Looking up for exact location of files: OK (4 files)
Info in <TPacketizerAdaptive::TPacketizerAdaptive>: Setting max number of workers per node
to 8
Validating files: OK (4 files)
Info in <TPacketizerAdaptive::InitStats>: fraction of remote files 1.000000
-I- FairAnaSelector::Terminate(): fOutput->Is() still sending)
OBJ: TSelectorList TSelectorList Special TList used in the TSelector : 0
OBJ: TList MissingFiles Doubly linked list : 0
OBJ: TStatus PROOF_Status : 0 at: 0x36b60b0
OBJ: TOutputListSelectorDataMap PROOF_TOutputListSelectorDataMap_object Converter
from output list to TSelector data members : 0 at: 0x36c33a0
-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
/misc/karabowi/pandaroot_15235/trunk/macro/global/params_22Part_n1000.ro ot : 0 at:
0x2d9d610
Root file I/O /misc/karabowi/pandaroot_15235/trunk/macro/global/params_22Part_n1000.ro
ot is open
detector I/Os: FairGenericParlo
second Input:
Ascii I/O /misc/karabowi/pandaroot_15235/trunk/macro/params/all.par is open
detector I/Os: FairGenericParlo
output: none

```

Macro finished succesfully.
Output file is tracks_22Part_n4000.root
Parameter file is
/misc/karabowi/pandaroot_15235/trunk/macro/global/params_22Part_n1000.ro ot
Real time 14.6925 s, CPU time 0.73 s

And when running with all:

```
Quote:karabowi@lxi047::~~/pandaroot_15235/trunk/macro/global$ root -l -q
'tracks_BARREL_1000.C("proof",4)' root [0]
Processing tracks_BARREL_1000.C("proof",4)...
FairRootManager::OpenOutFile("tracks_22Part_n4000.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 ] - /misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n1000_f0
.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f1.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f2.root
[INFO ] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n
1000_f3.root
FairRunAna::RunOnProof(0,4000): 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)
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+++++++ C R E A T E D ++++++++
0309: ClearPackages
0309: UploadPackages
0309: EnablePackages
EXECUTING libFairRoot.par/SETUP.C without includes
Function SETUP_c7827247() busy. loaded after
"/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C"
Error: G__unloadfile() Can not unload
"/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C", file busy
/tmp/SETUP_c7827247.C:20:
Note: File "/misc/karabowi/pandaroot_15235/trunk/gconfig/rootlogon.C" already loaded
*** Interpreter error recovered ***
DONT MIND THE ERRORS HERE, ITS EXECUTED.
0309: ShowPackages
*** Package cache client:/misc/karabowi/.proof/packages ***
total 0
drwxr-x--- 3 karabowi had1 22 31. Okt 13:34 libFairRoot
lrwxrwxrwx 1 karabowi had1 60 4. Apr 21:11 libFairRoot.par ->
/misc/karabowi/pandaroot_15235/trunk/gconfig/libFairRoot.par
```

0309: Done

FairRunAna::RunOnProof(): The chain seems to have 4000 entries.

FairRunAna::RunOnProof(): There are 4 files in the chain.

FairRunAna::RunOnProof(): Starting inChain->Process("FairAnaSelector","",4000,0)

Warning in <TBufferFile::WriteObjectAny>: since PndGeoHandling has no public constructor which can be called without argument, objects of this class

can not be read with the current library. You will need to

add a default constructor before attempting to read it.

Error in <TClass::New>: cannot create object of class FairRuntimeDb

Warning in <TClass::TClass>: no dictionary for class pair<double,FairTimeStamp*> is available

Error in <Pair Emulation Building>: const char* is not yet supported in pair emulation

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Error in <TClass::BuildRealData>: Cannot find any ShowMembers function for

PndSdsCalcStrip!

Warning in <TClass::TClass>: no dictionary for class BinaryFunctor is available

Error in <TStreamerInfo::Build:>: PndSdsPixelClusterTask: BinaryFunctor* has no streamer or dictionary, data member fFunctor will not be saved

Error in <TStreamerInfo::Build:>: PndSdsPixelClusterTask: BinaryFunctor* has no streamer or dictionary, data member fStartFunctor will not be saved

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

Warning in <TClass::TClass>: no dictionary for class PndSdsFEAmpModelSimple is available

Error in <TStreamerInfo::Build:>: PndSdsFE: PndSdsFEAmpModelSimple* has no streamer or dictionary, data member fFrontEndModel 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

Error in <TStreamerInfo::Build:>: PndSdsStripClusterTask: BinaryFunctor* has no streamer or dictionary, data member fFunctor will not be saved

Error in <TClass::New>: cannot create object of class PndSdsChargeWeightingAlgorithms

Error in <TClass::New>: cannot create object of class PndGeoHandling

Error in <TBufferFile::ReadObject>: could not create object of class PndGeoHandling

Error in <TExMap::Remove>: key 4194304 not found at 291

Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=4194304 pointer will be 0

Error: Symbol #include is not defined in current scope tracks_BARREL_1000.C:117:

Error: Symbol exception is not defined in current scope tracks_BARREL_1000.C:117:

Syntax Error: #include <exception> tracks_BARREL_1000.C:117:

Error: Symbol G__exception is not defined in current scope tracks_BARREL_1000.C:117:

Error: type G__exception not defined

FILE:/misc/karabowi/pandaroot_15235/trunk/macro/global/./tracks_BARREL_1 000.C

LINE:117

*** Interpreter error recovered ***

I have spent the last few days on fixing the problem with the root parameter files that one gives to FairRuntimeDb. Previously one needed to store the parameters in one root file while doing simulation. Currently FairParRootFileIo::open is taking also a TList of root parameter file names. Internally the files are merged into one file that is then given as input to the

FairRuntimeDb as parameter file.

This you can test with sim_BARREL_1000sep.C and tracks_BARREL_1000sep.C

yours
radek
