Subject: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Fri, 09 Mar 2012 21:55:23 GMT
View Forum Message <> Reply to Message

As of yesterday, 08th March 2012, users have possibility to execute their reconstruction macros on the PROOF clusters.
Please check the website for more instructions and details.

Subject: Re: PROOF in FairRoot
Posted by StefanoSpataro on Sat, 31 Mar 2012 12:16:55 GMT
View Forum Message <> Reply to Message

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
-I- 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:  FairGenericParIo
second Input:
Ascii I/O /home/spataro/jan12/pandaroot/macro/params/all.par is open
detector I/Os:  FairGenericParIo
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 prduces 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->ls()

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: FairGenericParIo
second Input:
Ascii I/O /home/spataro/jan12/pandaroot/macro/params/all.par is open
detector I/Os: FairGenericParIo
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?

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Tue, 03 Apr 2012 10:28:52 GMT
View Forum Message <> Reply to Message

Dear Stefano,

Sorry for late answer.

The first problem is already solved in the current trunk. The problem was connected with your calling of fRun->Run(0,nEvents) in the macro, where nEvents = 0, which resulted in:

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)

I have fixed it to take the whole chain if the user does not specify number of events to analyze.

The second problem: I guess the code crashes because of problems in MVD/SDS. The thing is I did not fix the classes. I will commit the changes I have implemented there in order to make it running. Sorry for that.

The last 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?"

I also do it sometimes. There may be only one problem: assume you have some steering variable in your task, like fVerbose. You normally set it in the macro either with a setter or in a dedicated constructor. You would like to have this fVerbose also set in your tasks running on PROOF with the value you specify in the macro. But if you use //!, this value will not be streamed and the default value from the default constructor will be taken. Now fVerbose is not very crucial for running of the tasks but for example in my PndBarrelTrackFinder I have members to choose which detectors to use to search for tracks. I set them in macro and it is very important to pass this information to the tasks on the PROOF nodes. Because of that I cannot just do //! on these members.

yours
radek

Subject: Re: PROOF in FairRoot
Posted by StefanoSpataro on Wed, 04 Apr 2012 15:50:07 GMT
View Forum Message <> Reply to Message

Now it is also worse, it is crashing:

Toggle Spoiler
spataro@briareos:~/jan12/pandaroot/macro/global$ root -l -q
'tracks_BARREL_1000.C("proof",10);'
root [0]
Processing 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 ++++++++++++++++++++++++++++++++
0309: ClearPackages
0309: UploadPackages
0309: EnablePackages
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.
0309: ShowPackages
*** 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 2012-04-04 17:48 libFairRoot.par ->
/home/spataro/jan12/pandaroot/gconfig/libFairRoot.par

0309: Done
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)
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
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 <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
Warning in <TStreamerSTL::TStreamerSTL>: For vector<TrackBasis> we could not find any information about the type TrackBasis 1 vector
Warning in <TStreamerSTL::TStreamerSTL>: For vector<TrackBasis> we could not find any information about the type TrackBasis 1 vector
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:/home/spataro/jan12/pandaroot/macro/global/./tracks_BARREL_1000.C LINE:117
*** Interpreter error recovered ***

I had understood that the example in macro/global was running.
Is it running in your case, and maybe it is only problem of my Ubuntu11.10?

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Wed, 04 Apr 2012 19:22:24 GMT
View Forum Message <> Reply to Message

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_n1000_f1.root
[INFO] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n1000_f2.root
[INFO] - file:///misc/karabowi/pandaroot_15235/trunk/macro/global/points_22Part_n1000_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->ls() 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: FairGenericParIo
second Input:
Ascii I/O /misc/karabowi/pandaroot_15235/trunk/macro/params/all.par is open
detector I/Os: FairGenericParIo
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)
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 21:11 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
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 <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

Subject: Re: PROOF in FairRoot
Posted by StefanoSpataro on Thu, 12 Apr 2012 07:50:45 GMT
View Forum Message <> Reply to Message

Hi,
I have just tried the new "sep" macros.
I have used only 1 input file, I had to modify the parameter part because it was searching for 4 parameter files while I had only one. It seems it is running:

Toggle Spoiler
spataro@briareos:~/jan12/pandaroot/macro/global$ rt tracks_BARREL_1000sep.C
root [0]
Processing tracks_BARREL_1000sep.C...
FairRootManager::OpenOutFile("tracks_22Part_n1000.root")
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [861.6 MB/s]
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------modeler ready----------
**** merged file = "
/home/spataro/jan12/pandaroot/macro/global/allParams_20120412_92051.root "
[INFO] The input consists out of the following trees and files:
[INFO] - cbmsim
[INFO] - /home/spataro/jan12/pandaroot/macro/global/points_22Part_n1000_f0_sep.ro ot
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 ++++++++++++++++++++++++++++++++
0309: ClearPackages
0309: UploadPackages
0309: EnablePackages
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.
0309: ShowPackages
*** 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 2012-04-12 09:20 libFairRoot.par ->
/home/spataro/jan12/pandaroot/gconfig/libFairRoot.par

```
0309: Done
FairRunAna::RunOnProof(): The chain seems to have 1000 entries.
FairRunAna::RunOnProof(): There are 1 files in the chain.
You requested to analyze events from 0 to 0 that is 0 events!!!
It will be changed to analyze all events from 0 to the end of chain (1000), that is to analyze
1000 events.
FairRunAna::RunOnProof(): Starting inChain->Process("FairAnaSelector","",1000,0)

Info in <TProofLite::SetQueryRunning>: starting query: 1
Info in <TProofQueryResult::SetRunning>: nwrks: 8
-I- 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>: fraction of remote files 0.000000
-I- FairAnaSelector::Terminate(): fOutput->ls() 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: 0x6f72540
 OBJ: TOutputListSelectorDataMap PROOF_TOutputListSelectorDataMap_object Converter
from output list to TSelector data members : 0 at: 0x6f7e880
-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/allParams_20120412_92051.root  : 0 at:
0x3239980
Root file I/O  /home/spataro/jan12/pandaroot/macro/global/allParams_20120412_92051.root is
open
detector I/Os:  FairGenericParIo
second Input:
Ascii I/O /home/spataro/jan12/pandaroot/macro/params/all.par is open
detector I/Os:  FairGenericParIo
output: none


Macro finished succesfully.
Output file is tracks_22Part_n1000.root
Parameter file is
/home/spataro/jan12/pandaroot/macro/global/params_22Part_n1000_f0_sep.ro ot
Real time 6.85992 s, CPU time 1.3 s
```

but the output file tracks_22Part_n1000.root is empty. In the folder I have one tracks_22Part_n1000_worker_0.3.root file which seems properly filled.
What is going wrong?

If I try with 10 files, adding 10 paramater files in the list, I have:

Toggle Spoiler

```
spataro@briareos:~/jan12/pandaroot/macro/global$ root -l -q
'tracks_BARREL_1000sep.C("proof",10);'
root [0]
Processing tracks_BARREL_1000sep.C("proof",10);...
FairRootManager::OpenOutFile("tracks_22Part_n10000.root")
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [823.3 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [439.2 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [472.5 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [535.2 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [875.1 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [989.7 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [905.8 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [1039.3 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [921.4 MB/s]
[TFile::Cp] Total 2.30 MB |====================| 100.00 % [1063.4 MB/s]
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
```

```
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: 125176 nodes/ 4346 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------

 *** Break *** segmentation violation
Aborted (core dumped)



==========================================================
There was a crash.
This is the entire stack trace of all threads:
==========================================================
#0  0x00007fd220302e1e in __libc_waitpid (pid=<optimized out>, stat_loc=0x7fff49656b80,
options=<optimized out>) at ../sysdeps/unix/sysv/linux/waitpid.c:32
#1  0x00007fd220297e0e in do_system (line=0x3967b40
"/home/spataro/jan12/fsbuild/etc/gdb-backtrace.sh 19800 1>&2") at
../sysdeps/posix/system.c:149
#2  0x00007fd2211adae7 in TUnixSystem::StackTrace() () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#3  0x00007fd2211b03b3 in TUnixSystem::DispatchSignals(ESignals) () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#4  <signal handler called>
#5  0x00007fd21534cc26 in operator<< <TGeoManager> (buf=..., obj=0x1f81900) at
```

/home/spataro/jan12/fsbuild/include/root/TBuffer.h:380
#6 0x00007fd2152a7030 in FairBaseParSet::Streamer
(this=0x1e73640/build/buildd/gdb-7.3/gdb/stack.c:293: internal-error: print_frame_args:
Assertion `nsym != NULL' failed.
==========

The lines below might hint at the cause of the crash.
If they do not help you then please submit a bug report at
http://root.cern.ch/bugs. Please post the ENTIRE stack trace
from above as an attachment in addition to anything else
that might help us fixing this issue.
==========
#5 0x00007fd21534cc26 in operator<< <TGeoManager> (buf=..., obj=0x1f81900) at
/home/spataro/jan12/fsbuild/include/root/TBuffer.h:380
#6 0x00007fd2152a7030 in FairBaseParSet::Streamer
(this=0x1e73640/build/buildd/gdb-7.3/gdb/stack.c:293: internal-error: print_frame_args:
Assertion `nsym != NULL' failed.
==========

Root > Function tracks_BARREL_1000sep() busy flag cleared
Fatal in <TFileMerger::RecursiveRemove>: Output file of the TFile Merger (targetting
/home/spataro/jan12/pandaroot/macro/global/allParams_20120412_94806.root) has been
deleted (likely due to a TTree larger than 100Gb)
aborting
#0 0x00007fd220302e1e in __libc_waitpid (pid=<optimized out>, stat_loc=0x7fff49679720,
options=<optimized out>) at ../sysdeps/unix/sysv/linux/waitpid.c:32
#1 0x00007fd220297e0e in do_system (line=0x1bd4e60
"/home/spataro/jan12/fsbuild/etc/gdb-backtrace.sh 19800 1>&2") at
../sysdeps/posix/system.c:149
#2 0x00007fd2211adae7 in TUnixSystem::StackTrace() () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#3 0x00007fd2210f79a2 in DefaultErrorHandler(int, bool, char const*, char const*) () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#4 0x00007fd2210f7eae in ErrorHandler () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#5 0x00007fd221107394 in TObject::Fatal(char const*, char const*, ...) const () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#6 0x00007fd22116231b in THashList::RecursiveRemove(TObject*) () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#7 0x00007fd221108198 in TObject::~TObject() () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#8 0x00007fd21dfebf79 in TFile::~TFile() () from /home/spataro/jan12/fsbuild/lib/root/libRIO.so
#9 0x00007fd221161259 in TCollection::GarbageCollect(TObject*) () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#10 0x00007fd221164be5 in TList::Delete(char const*) () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#11 0x00007fd22111d087 in TROOT::~TROOT() () from
/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#12 0x00007fd22028fc3d in __cxa_finalize (d=0x7fd22188ac00) at cxa_finalize.c:56
#13 0x00007fd2210dc126 in __do_global_dtors_aux () from

/home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#14 0x00007fff4967bcf0 in ?? ()
#15 0x00007fff4967c0d0 in ?? ()
#16 0x00007fd221517871 in _fini () from /home/spataro/jan12/fsbuild/lib/root/libCore.so.5.32
#17 0x00007fff4967c0d0 in ?? ()
#18 0x00007fd22191e135 in ?? () from /lib64/ld-linux-x86-64.so.2

Maybe I have messed up something.

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Thu, 19 Apr 2012 14:23:41 GMT
View Forum Message <> Reply to Message

Dear Stefano,

Again it took me long time to answer, but:
a/ on GSI Debian the merging was working without any problems
b/ on my MAC the merging was crashing badly with no clue as to where the crash happens.

After few days of trying to find the problem, I've used my original idea of merging the files by myself. With the current changes (rev. 15330) the merging works both on MAC and Debian, but it's slower than the original ROOT TFlieMerger.

Anyways, can you try now?

yours
radek

ps. The "merging" somehow worker for 1 file, that's why it was analyzed. Apparently only on one worker.

The standard output file (like "tracks_22Part_n1000.root") is empty, sorry for that. It is created when the master FairRunAna is created. Originally I though of using it for creating a merged file, but since file merging crashes, it just stays empty. I know it's a bit annoying. If you really think it should not be created, please let me know.

Subject: Re: PROOF in FairRoot
Posted by StefanoSpataro on Thu, 03 May 2012 08:17:39 GMT
View Forum Message <> Reply to Message

I had the time to check the new updates.
Now it seems the system runs, with 10 files and also with a single file. In the latter case I hope all the workers are used, considering that at the end I have only one final root file (worker_0.1) and not 8 as I would expect.

Now it would be good to have it running also for detectors different from GEM. In this sense we could "program" updates in the code, made by the package responsible, so that all the classes are "clean" and running. Who could take care?

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Thu, 03 May 2012 22:11:26 GMT
View Forum Message <> Reply to Message

Dear Stefano,

Thank you for again testing PROOF. I have two comments to your last message:

- the "one input tree per one worker" seems to be a part of the adaptive PacketizerStrategy. When changing the strategy to the old one, 1 file is analyzed on several workers (but I had to introduce some sleep in exec to see it).
I have reorganized slightly the FairRunAna, so that one can set proof parameters from the outside as well.
Please update the trunk and add the following line to your macro, somewhere between new FairRunAna and fRun->Run():

```
fRun->GetProof()->SetParameter("PROOF_PacketizerStrategy", (Int_t)0);
```

- another tasks - I am working on it. Currently I am testing the changes implemented on linux debian before last PandaCM on my MAC. I hope to be ready tomorrow - after commit will let you know.

yours
radek

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Sat, 05 May 2012 10:07:22 GMT
View Forum Message <> Reply to Message

Dear Stefano et al,

I have just committed the changes necessary to run my proof macros (macro/global/{sim,tracks}_BARREL_1000sep.C) with MVD, STT, GEM and my track finding. The changes are located in files:

M mvd/MvdReco/PndMvdStripClusterTask.cxx
M mvd/MvdDigi/PndMvdNoiseProducer.cxx
M sds/SdsReco/PndSdsStripClusterTask.cxx
M sds/SdsReco/PndSdsChargeWeightingAlgorithms.cxx
M sds/SdsReco/PndSdsPixelClusterTask.cxx
M sds/SdsReco/PndSdsStripClusterTask.h
M sds/SdsReco/PndSdsChargeWeightingAlgorithms.h
M sds/SdsReco/PndSdsPixelClusterTask.h
M sds/SdsDigi/PndSdsHybridHitProducer.h
M sds/SdsDigi/PndSdsStripHitProducer.cxx
M sds/SdsDigi/PndSdsNoiseProducer.cxx
M sds/SdsDigi/PndSdsHybridHitProducer.cxx
M sds/SdsDigi/PndSdsStripHitProducer.h
M PndTools/generalTools/PndGeoHandling.cxx
M PndTools/generalTools/PndGeoHandling.h
M stt/PndSttHitProducerIdeal.cxx

M macro/global/tracks_BARREL_1000sep.C

Sometimes it's more, sometimes less. Usually it's only member initialization in the class constructors, but I've also had some fun with PndGeoHandling* fGeoH and PndSttMapCreator* mapper. If any of the people responsible for the classes read this message, please do have a look at the changes, so that I do not destroy anything.

BTW, In the file attached to this message, I've tried to summarize my thought processes, when dealing with the PROOF crashes, and the changes I had to introduce to MVD/STT/Global. How you will find it useful.

yours
radek

File Attachments

1) 20120505_karabowicz_proof_changes.pdf, downloaded 703 times

---

Subject: Re: PROOF in FairRoot
Posted by StefanoSpataro on Mon, 07 May 2012 11:54:25 GMT
View Forum Message <> Reply to Message

Hi Radek,
one month ago I had already a discussion with Tobias about PndGeoHandling public constructor, and it should be private as long as PndGeoHandling is a singleton. Otherwise it could happen that it is called by a different subprocess.
No idea on how to solve this point.

Subject: Re: PROOF in FairRoot
Posted by Radoslaw Karabowicz on Tue, 22 May 2012 14:49:24 GMT
View Forum Message <> Reply to Message

Is it possible to check in the constructor for the existence of the PndGeoHandling and crash in the positive case?

yours
radek
