
Subject: Re: PROOF in FairRoot

Posted by [Stefano Spataro](#) on Thu, 12 Apr 2012 07:50:45 GMT

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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
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->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: 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: 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_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 parameter 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")
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [823.3 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [439.2 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [472.5 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [535.2 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [875.1 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [989.7 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [905.8 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [1039.3 MB/s]
[TFFile::Cp] Total 2.30 MB |=====| 100.00 % [921.4 MB/s]
[TFFile::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
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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
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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.
