
Subject: PandaRoot Installation Verification
Posted by [Dave](#) on Thu, 05 Nov 2015 16:06:27 GMT
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Hi,

I followed the wiki guide and installed the external packages, FairRoot and PandaRoot. As a last step as recommended in the guide I tried to check whether the PandaRoot installation went fine or not. For that after launching config.sh I ran the macro sim_complete.C inside root, but it crashes. The console gives some error message too, like:

```
[ERROR ] init() PndEmcGeoPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occurred during initialization
Error: Symbol TGeant3TGeo is not defined in current scope
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C: 12:
Error: type TGeant3TGeo not defined
FILE:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C LINE:12
*** Interpreter error recovered ***
Error: illegal pointer to class object gMC 0x0 2736
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/SetCuts.C:2 3:
*** Interpreter error recovered ***

*** Break *** segmentation violation
```

```
=====
There was a crash (#6 0xb719ef6b in SigHandler(ESignals) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34).
```

Can anyone please have any idea or suggestion how to fix this issue?
thanks...

Subject: Re: PandaRoot Installation Verification
Posted by [StefanoSpataro](#) on Thu, 05 Nov 2015 16:15:00 GMT
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Can you please type the output of your configure.sh, and the complete log of the sim? Which OS are you using?

Subject: Re: PandaRoot Installation Verification
Posted by [Dave](#) on Thu, 05 Nov 2015 16:16:41 GMT
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Hi, yes sure. This is:

```
System during compilation: Ubuntu 14.04.2 LTS
                           i686
System now                  : Ubuntu 14.04.2 LTS
                           i686
```

Subject: Re: PandaRoot Installation Verification
Posted by [Stefano Spataro](#) on Thu, 05 Nov 2015 16:36:46 GMT
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Also the full log of sim_compjete.C from the beginning.

Subject: Re: PandaRoot Installation Verification
Posted by [Dave](#) on Thu, 05 Nov 2015 16:41:05 GMT
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```
root [0]
Processing sim_complete.C...
[INFO ] FairRootManager::OpenOutFile("sim_complete.root")
[WARNING] Function FairRun::SetWriteRunInfoFile(Bool_t) is deprecated and will vanish in
future versions of FairRoot.
Please use FairRun::SetGenerateRunInfo(Bool_t) instead.
[INFO ] Media file used :
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/geometry/media_pnd.geo
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
Error in <TClonesArray::SetClass>: called with a null pointer
-I container name PndEmcGeoPar
<I> PndEvtGenDirect
<I> Particle: pbarpSystem
<I> decfile: /home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/macro/run/psi2s_Jps
i2pi_Jpsi_mumu.dec
<I> pbar-Momentum: 6.23155
<I> Rnd Seed: -1
<I> Rnd Seed changed to 739904478
EvtGen:Defining EvtPhotosEngine using photonType = gamma
EvtGen:Setting up PHOTOS.
EvtGen:Using EvtGen random number engine also for Photos++
Message from PHCORK(MODCOR):: initialization
MODOP=5 -- corrects Energy from mass+flow
Message from PHOTOS: IPHQRK(MODCOR):: (re)initialization
MODOP=1 -- blocks emission from light quarks: DEFAULT
Message from PHOTOS: IPHEKL(MODCOR):: (re)initialization
MODOP=2 -- blocks emission in pi0 to gamma e+e-: DEFAULT
MODOP=2 -- blocks emission in K1 to gamma e+e-: DEFAULT
```

```
=====
PHOTOS, Version: 3.52
Released at: 4/11/12
=====
```

Photos QED corrections in Particle Decays

Monte Carlo Program - by E. Barberio, B. van Eijk and Z. Was
From version 2.09 - by P. Golonka and Z. Was
From version 3.00 - by N. Davidson, T. Przedzinski and Z. Was

Internal (default) input parameters:

INTERF= 1 ISEC= 0 ITRE= 0 IEXP= 1 IFTOP= 1 IFW= 1
ALPHA_QED= 0.00729735 XPHCUT= 1e-07

Option with interference is active
Option with exponentiation is active EPSEXP=0.0001
Emission in t tbar production is active
Correction wt in decay of W is active

WARNING: /HEPEVT/ is not anymore used.

Message from PHCORK(MODCOR):: initialization
MODOP=5 -- corrects Energy from mass+flow
EvtGen:Defining EvtPythiaEngine: data tables defined in
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/share/pythia8/ xmldoc
EvtGen:Pythia 6 codes in decay files will be converted to Pythia 8 codes
EvtGen:Using EvtGen random engine for Pythia 8 as well
EvtGen:Creating generic Pythia generator

```
*-----*
|                                     |
| *-----* |
| |                                     | |
| |                                     | |
| | PPP Y Y TTTT H H III A Welcome to the Lund Monte Carlo! | |
| | P P YY T H H I A A This is PYTHIA version 8.183 | |
| | PPP Y T HHHHH I AAAAA Last date of change: 23 Jan 2014 | |
| | P Y T H H I A A | |
| | P Y T H H III A A Now is 05 Nov 2015 at 21:11:19 | |
| | | |
| | Torbjorn Sjostrand; Department of Astronomy and Theoretical Physics, | |
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| | Notkestrasse 85, D-22607 Hamburg, Germany; | |
| | phone: + 49 - 40 - 8998-4250; e-mail: stefan.prestel@thep.lu.se | |
```

```

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| | Stefan Ask; former author; e-mail: ask.stefan@gmail.com | |
| | Richard Corke; former author; e-mail: r.corke@errno.net | |
| | | |
| | The main program reference is the 'Brief Introduction to PYTHIA 8.1', | |
| | T. Sjostrand, S. Mrenna and P. Skands, Comput. Phys. Comm. 178 (2008) 85 | |
| | [arXiv:0710.3820] | |
| | | |
| | The main physics reference is the 'PYTHIA 6.4 Physics and Manual', | |
| | T. Sjostrand, S. Mrenna and P. Skands, JHEP05 (2006) 026 [hep-ph/0603175]. | |
| | | |
| | An archive of program versions and documentation is found on the web: | |
| | http://www.thep.lu.se/~torbjorn/Pythia.html | |
| | | |
| | This program is released under the GNU General Public Licence version 2. | |
| | Please respect the MCnet Guidelines for Event Generator Authors and Users. | |
| | | |
| | Disclaimer: this program comes without any guarantees. | |
| | Beware of errors and use common sense when interpreting results. | |
| | | |
| | Copyright (C) 2014 Torbjorn Sjostrand | |
| | | |
| | | |
| | *-----* |
| | |
| | *-----*

```

EvtGen:Creating alias Pythia generator

```

*-----*
|
| *-----* |
| |
| | | |
| | PPP Y Y TTTT H H III A Welcome to the Lund Monte Carlo! | |
| | P P Y Y T H H I A A This is PYTHIA version 8.183 | |
| | PPP Y T HHHHH I AAAAA Last date of change: 23 Jan 2014 | |
| | P Y T H H I A A | |
| | P Y T H H III A A Now is 05 Nov 2015 at 21:11:19 | |
| | | |
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| | stationed at CERN, CH-1211 Geneva 23, Switzerland; | |

```

```

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| | Stefan Ask; former author; e-mail: ask.stefan@gmail.com | |
| | Richard Corke; former author; e-mail: r.corke@ernno.net | |
| |
| | The main program reference is the 'Brief Introduction to PYTHIA 8.1', | |
| | T. Sjostrand, S. Mrenna and P. Skands, Comput. Phys. Comm. 178 (2008) 85 | |
| | [arXiv:0710.3820] | |
| |
| | The main physics reference is the 'PYTHIA 6.4 Physics and Manual', | |
| | T. Sjostrand, S. Mrenna and P. Skands, JHEP05 (2006) 026 [hep-ph/0603175]. | |
| |
| | An archive of program versions and documentation is found on the web: | |
| | http://www.thep.lu.se/~torbjorn/Pythia.html | |
| |
| | This program is released under the GNU General Public Licence version 2. | |
| | Please respect the MCnet Guidelines for Event Generator Authors and Users. | |
| |
| | Disclaimer: this program comes without any guarantees. | |
| | Beware of errors and use common sense when interpreting results. | |
| |
| | Copyright (C) 2014 Torbjorn Sjostrand | |
| |
| |
| | *-----* |
| |
| | *-----*

```

EvtGen:Initializing EvtGen

EvtGen:Storing known decay models

EvtGen:Defining EvtBcToNPi model: Bc -> V + np_i and Bc -> P + np_i decays

from A.V. Berezhnoy, A.K. Likhoded, A.V. Luchinsky: Phys.Rev.D 82, 014012 (2010) and arXiv:1104.0808.

EvtGen:Main decay file name

:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/pgenerators/EvtGen

/EvtGen/Private/DECAY.DEC

EvtGen:PDT table file name

:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/pgenerators/EvtGen

/EvtGen/Private/evt.pdl

EvtGen:In readDecayFile,

reading:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/pgenerators

/EvtGen/EvtGen/Private/DECAY.DEC

EvtGen:Warning, sum of branching fractions for omega is 0.994

EvtGen:rescaled to one!

EvtGen:Warning, sum of branching fractions for phi is 0.999

```

EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for f_2 is 0.999
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for chi_c1 is 0.996
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for Upsilon(2S) is 0.992
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for Upsilon(3S) is 0.999
EvtGen:rescaled to one!
EvtGen:Mixing type integer set to 1
EvtGen:Done initializing EvtGen
EvtGen:In readDecayFile,
reading:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/macro/run/p
si2s_Jpsi2pi_Jpsi_mumu.dec
EvtGen:As requested, PHOTOS will be turned off.
EvtGen:Redefined decay of J/psi
EvtGen:Given allowed decays, resetting minMass pbarpSystem 1.480 to 3.376

```

Generating with following conditions:

incident 4-mom : (7.240, 0, 0, 6.232), m = 3.686

#####

```

[INFO ] ===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
[INFO ] FairGeoMedia: Read media
-I container name PndEmcDigiPar
-I container name PndEmcDigiNonuniformityPar

```

initialisation for run id 1446738081

```

-I- FairRunTimeDB::InitContainer() PndEmcGeoPar
[ERROR ] init() PndEmcGeoPar not initialized
-I- FairRunTimeDB::InitContainer() PndSensorNamePar
[ERROR ] init() PndSensorNamePar not initialized
-I- FairRunTimeDB::InitContainer() PndEmcDigiPar
PndEmcDigiPar initialized from Ascii file
-I- FairRunTimeDB::InitContainer() PndEmcDigiNonuniformityPar
[ERROR ] init() PndEmcDigiNonuniformityPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occurred during initialization
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/TransMap.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/DipoleMap1.08 90.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/DipoleMap2.08 90.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/SolenoidMap1.root
[INFO ] PndFieldMap: Reading field map from ROOT file

```

```

/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/SolenoidMap2.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/SolenoidMap3.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/input/SolenoidMap4.root
[INFO ] ----- Standard Config is called -----
Loading Geant3 libraries ...
dlopen error: /home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/libgeant321.so:
undefined symbol: pycomp_
Load Error: Failed to load Dynamic link library
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/libgeant321.so
Warning: Return value of void g3libs() ignored
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3libs.C:19 :
Error: Symbol TGeant3TGeo is not defined in current scope
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C: 12:
Error: type TGeant3TGeo not defined
FILE:/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C LINE:12
*** Interpreter error recovered ***
SetCuts Macro: Setting Processes..
Error: illegal pointer to class object gMC 0x0 2736
/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/SetCuts.C:2 3:
*** Interpreter error recovered ***

*** Break *** segmentation violation

```

```

=====
There was a crash (#6 0xb71e8f6b in SigHandler(ESignals) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34).
This is the entire stack trace of all threads:
=====
    from libstdc++.v6.printers import register_libstdcxx_printers
#0 0xb7753428 in __kernel_vsyscall ()
#1 0xb6d9f313 in __waitpid_nocancel () at ../sysdeps/unix/syscall-template.S:81
#2 0xb6d29dad in do_system (line=0xa5227d8 "
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/share/root/etc/ gdb-backtrace.sh
4277 1>&2") at ../sysdeps/posix/system.c:148
#3 0xb71e318b in TUnixSystem::Exec(char const*) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#4 0xb71e6d72 in TUnixSystem::StackTrace() () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#5 0xb71e8e37 in TUnixSystem::DispatchSignals(ESignals) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#6 0xb71e8f6b in SigHandler(ESignals) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#7 0xb71e21c2 in sighandler(int) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#8 0xb7217185 in textinput::TerminalConfigUnix::HandleSignal(int) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#9 0xb72171d4 in (anonymous namespace)::TerminalConfigUnix__handleSignal(int) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34

```



```

#10 <signal handler called>
#11 0xb35071cf in FairMCApplication::InitMC (this=0xa536930, setup=0xa53ed70
"/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C ",
cuts=0xa537120
"/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/SetCuts.C") at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/sim/FairMCApplication.cxx:385
#12 0xb34fa44c in FairRunSim::SetMCConfig (this=this
entry=0x9872260) at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/steer/FairRunSim.cxx:379
#13 0xb34fbc1d in FairRunSim::Init (this=0x9872260) at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/steer/FairRunSim.cxx:230
#14 0xb357731f in G__G__BaseDict_785_0_5 (result7=0xbfa4c0a4, funcname=0x98573e0 "",
libp=0xbfa4c0cc, hash=0) at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/build/base/G__BaseDict.cxx:13233
#15 0xb674c533 in Cint::G__ExceptionWrapper(int (*)(G__value*, char const*, G__param*,
int), G__value*, char*, G__param*, int) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#16 0xb67fb6bf in G__execute_call () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#17 0xb67fba8e in G__call_cppfunc () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#18 0xb67d7328 in G__interpret_func () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#19 0xb67c5ff2 in G__getfunction () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#20 0xb68b9447 in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#21 0xb68afc72 in G__getvariable () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#22 0xb679cdbc in G__getitem () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#23 0xb67a289c in G__getexpr () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#24 0xb682e651 in G__exec_statement () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#25 0xb67d87c9 in G__interpret_func () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#26 0xb67c6064 in G__getfunction () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#27 0xb679cece in G__getitem () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#28 0xb67a289c in G__getexpr () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#29 0xb67ae810 in G__calc_internal () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#30 0xb683bcef in G__process_cmd () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCint.so.5.34
#31 0xb71a6b25 in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#32 0xb71a279b in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34

```



```
#33 0xb70ff70f in TApplication::ExecuteFile(char const*, int*, bool) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#34 0xb70ffb6c in TApplication::ProcessFile(char const*, int*, bool) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#35 0xb70fea81 in TApplication::ProcessLine(char const*, bool, int*) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libCore.so.5.34
#36 0xb6fc74b5 in TRint::Run(bool) () from
/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/root/libRint.so.5.34
#37 0x08048cd0 in main ()
=====
```

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.

```
=====
#11 0xb35071cf in FairMCApplication::InitMC (this=0xa536930, setup=0xa53ed70
"/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/g3Config.C ",
cuts=0xa537120
"/home/debdeep/Desktop/Panda/fairsoft_mar15/pandaroot/gconfig/SetCuts.C") at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/sim/FairMCApplication.cxx:385
#12 0xb34fa44c in FairRunSim::SetMCConfig (this=this
entry=0x9872260) at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/steer/FairRunSim.cxx:379
#13 0xb34fbc1d in FairRunSim::Init (this=0x9872260) at
/home/debdeep/Desktop/Panda/fairsoft_mar15/FairRoot/base/steer/FairRunSim.cxx:230
=====
```

Root > Function sim_complete() busy flag cleared

Subject: Re: PandaRoot Installation Verification
Posted by [Stefano Spataro](#) on Thu, 05 Nov 2015 18:12:55 GMT
[View Forum Message](#) <> [Reply to Message](#)

It seems to me that geant3 is not properly installed.
Can you please check if in \$SIMPATH there is the file libgeant321.so?

find \$SIMPATH -name libgeant321*

(of course after setting the SIMPATH)

Subject: Re: PandaRoot Installation Verification
Posted by [Dave](#) on Fri, 06 Nov 2015 08:32:05 GMT
[View Forum Message](#) <> [Reply to Message](#)

yes, the file is there. It is here:

/home/debdeep/Desktop/Panda/fairsoft_mar15/buildFairSoft/lib/libgeant321 .so

Subject: Re: PandaRoot Installation Verification

Posted by [Stefano Spataro](#) on Fri, 06 Nov 2015 10:02:13 GMT

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I have checked and already somebody else reported this in the FairRoot forum, but no solution is described there:

https://forum.gsi.de/index.php?t=tree&goto=17660&&srch=pycom p_#page_top

Since the installation scheme was verified many times in your Ubuntu 14.04, I believe there is something wrong in your local FairSoft/FairRoot installation which is not connected to PandaRoot. I suggest to try again from scratch, maybe you forgot some command, or you did not realize some error. You could also try the run_tutorial1 of FairRoot, in order to decouple your problem from pandaroot.
