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Subject: New external packages (jan12)

Posted by [Mohammad Al-Turany](#) on Wed, 11 Jan 2012 15:47:34 GMT

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Dear all,

Happy new year to everyone!

The new external packages for FairRoot/PandaRoot are now available (jan12).

This release was tested on:

MAC OS X 10.6.x, 10.7.X (64 bit)

Suse 11.2, 11.3, 12.1 (32 and 64 bit)

Fedora 14, 16 (32 and 64 bit)

Ubuntu 10.10, 11.04, 11.10 (32 and 64 bit)

For more details please visit <http://fairroot.gsi.de/>

Mohammad

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Subject: Re: New external packages (jan12)

Posted by [Stefano Spataro](#) on Wed, 11 Jan 2012 15:54:01 GMT

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Installed on my Ubuntu 11.10!

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Subject: Re: New external packages (jan12) - memory problem solved

Posted by [Olaf Hartmann](#) on Thu, 12 Jan 2012 14:32:55 GMT

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Dear all,

the problem with the memory explosion when reading from TTree files which re-appeared with root version 5.30 seems to be gone

in root 5.32 which comes with the new version of the external packages.

I re-ran my macro and the virtual memory of root stays around 550m as it should.

Cheers

Olaf.

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Subject: Re: New external packages (jan12) - memory problem solved

Posted by [M.Babai](#) on Thu, 12 Jan 2012 15:38:00 GMT

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Installed on Debian wheezy (32 & 64 bit) and everything goes fine, so far. .

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Subject: Re: New external packages (jan12)

Posted by [Olaf Hartmann](#) on Fri, 13 Jan 2012 14:11:00 GMT

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Dear Mohammad,

somehow I've problems with the GEANT4 data files in the jan12 external packages. The directory structure inside the fairsoft directory (/misc/cbmsoft/Lenny64/.../fairsoft) has changed from may11 to jan12, but running config.sh in my new build directory it still searches for the "old style":

```
...
export
GEANT4_INCLUDE_DIR="GEANT4_INCLUDE_DIR-NOTFOUND:/misc/cbmsoft/Lenny64/j
an12/transport/geant4/source/interfaces/common/include:/misc/cbmsoft/Lenny64/jan
12/transport/geant4/physics_lists/hadronic/Packaging/include:/misc/cbmsoft/Lenny
64/jan12/transport/geant4/physics_lists/hadronic/QGSP/include"
...
```

but it should rather be in \$SIMPATH/fairsoft/share/Geant4-9.5.0/data .

Did I miss to update something?

Cheers

Olaf.

---

---

Subject: Re: New external packages (jan12)

Posted by [Mohammad Al-Turany](#) on Sat, 14 Jan 2012 13:36:45 GMT

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Dear Olaf,

There was a problem with the FindGEANT4.cmake, sorry I did not have it on MAC OS! It is corrected now and it should work.

Sorry again.

Mohammad

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Subject: Re: New external packages (jan12)

Posted by [Olaf Hartmann](#) on Sat, 14 Jan 2012 14:03:42 GMT

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Hi Mohammad,

I did a svn update, but now cmake complains about the following:

[...]

-- Looking for Pluto...

CMake Error at cmake/modules/FindPLUTO.cmake:45 (message):

Looking for Pluto... - Not found

Call Stack (most recent call first):

CMakeLists.txt:72 (find\_package)

-- Configuring incomplete, errors occurred!

The error remains also after deleting the CmakeCache file.

Ciao

Olaf.

---

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Subject: Re: New external packages (jan12)

Posted by [Stefano Spataro](#) on Sat, 14 Jan 2012 14:14:03 GMT

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Do we really need pluto? I think nobody from Panda is using it!

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Subject: Re: New external packages (jan12)

Posted by [Mohammad Al-Turany](#) on Sat, 14 Jan 2012 14:28:28 GMT

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Hi,

I am not able to reproduce this! I just try it on the Lenny64 and all works fine:

<http://cdash.gsi.de/CDash/buildSummary.php?buildid=463>

can you check if you can access the /misc/cbmsoft/Lenny64 ?

Stefano:

if pluto is not needed for Panda we can simply remove it from the list of required packages in CMakeList.txt

Mohammad

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Subject: Re: New external packages (jan12)  
Posted by [Olaf Hartmann](#) on Sat, 14 Jan 2012 18:34:04 GMT  
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Hi Mohammad,

it looks actually that the problem is related to the filesystem ... I removed everything from the build directory and tried to run cmake:

on lxi039 I get:

```
olaf@lxi039:~/panda/pandaroot/build_jan12 $ cmake ../
CMAKE_Fortran_COMPILER full path: /usr/bin/gfortran
Fortran compiler: gfortran
Set BuildType DEBUG
--- Found a Linux ssystem
--- Found GNU compiler collection
--- Build Type: Debug
--- Compiler Flags:
-- Looking for Root...
-- Looking for Root... - Found /misc/cbmssoft/Lenny64/jan12/fairsoft/bin/root
-- Looking for Root... - version 5.32/00
-- Looking for GLPK ...
-- Looking for PYTHIA8 ...
-- Looking for Pythia6...
CMake Error at cmake/modules/FindGENERATORS.cmake:55 (message):
  Looking for Pythia6... - Not found
```

while on lxi035 the very same command stops already when it searches for the root executable:

```
olaf@lxi035:~/panda/pandaroot/build_jan12 $ cmake ../
CMAKE_Fortran_COMPILER full path: /usr/bin/gfortran
Fortran compiler: gfortran
Set BuildType DEBUG
--- Found a Linux ssystem
--- Found GNU compiler collection
--- Build Type: Debug
--- Compiler Flags:
-- Looking for Root...
CMake Error at cmake/modules/FindROOT.cmake:30 (MESSAGE):
  ROOT not installed in the searchpath and ROOTSYS is not set. Please
```

set ROOTSYS or add the path to your ROOT installation in the Macro FindROOT.cmake in the

subdirectory cmake/modules.

Call Stack (most recent call first):

CMakeLists.txt:66 (find\_package)

Cheers  
Olaf.

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Mon, 16 Jan 2012 08:47:45 GMT  
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Dear Mohammad,

I am experiencing the same problem Olaf had with "GEANT4\_INCLUDE\_DIR-NOTFOUND" on a Etch 64 bit machine. You mentioned this is fixed now in a corrected version of FindGEANT4.cmake. Is it in the actual jan12 svn version? I couldn't find it so far.

Best regards,

Simone

---

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Subject: Re: New external packages (jan12)  
Posted by [Olaf Hartmann](#) on Mon, 16 Jan 2012 08:53:09 GMT  
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Hi Simone,

it's in the cmake directory of Pandaroot.

Olaf.

---

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Subject: Re: New external packages (jan12)  
Posted by [Olaf Hartmann](#) on Mon, 16 Jan 2012 09:19:14 GMT  
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Hi again,

my CMAKE still fails under lenny64 (lxi047) if I have

```
$SIMPATH=/misc/cbmsoft/Lenny64/jan12 .
```

If I use instead the fairsoft\_trunk, it works without problems ...

Below the output of my cmake command.

Cheers  
Olaf.

```
olaf@lxi043:~/panda/pandaroot/build_jan12 $ cmake ../
```

CMAKE\_Fortran\_COMPILER full path: /usr/bin/gfortran  
Fortran compiler: gfortran  
Set BuildType DEBUG  
--- Found a Linux system  
--- Found GNU compiler collection  
--- Build Type: Debug  
--- Compiler Flags:  
-- Looking for Root...  
CMake Error at cmake/modules/FindROOT.cmake:30 (MESSAGE):  
 ROOT not installed in the searchpath and ROOTSYS is not set. Please

set ROOTSYS or add the path to your ROOT installation in the Macro FindROOT.cmake in the

subdirectory cmake/modules.

Call Stack (most recent call first):

CMakeLists.txt:66 (find\_package)

-- Configuring incomplete, errors occurred!

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 16 Jan 2012 10:12:45 GMT  
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Hi Olaf,

I think the cmake is right, your simpath is wrong!!

you should use:

```
$SIMPATh=/misc/cbmsoft/Lenny64/jan12/fairsoft
```

cheers,

Mohammad

---

Subject: Re:  
Posted by [Olaf Hartmann](#) on Mon, 16 Jan 2012 10:25:33 GMT  
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Dear Mohammad,

.... and of course you're right. I mixed it up with my local installation. Classical case of "Betriebsblindheit".

Thanks and sorry for that.

Olaf.

---

Subject: Re: New external packages (jan12)  
Posted by [Maria Patsyuk](#) on Mon, 16 Jan 2012 14:05:26 GMT  
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Hi,

I just tried to run our DIRC simulation with new jan12 packages (I have Lenny32 local machine) and while running the eventDisplay I got the following error:

```
mpatsyuk@lxg0333:~/PANDA/trunk/macro/drc $ root -l eventDisplay.C
root [0]
Processing eventDisplay.C...
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
Error in <TUnixSystem::DynamicPathName>: libEventDisplay[.so | .dll | .dylib | .sl | .d
  | | .a] does not exist in
/u/mpatsyuk/PANDA/build_Lenny32_Jan2012/lib:/u/mpatsyuk/PANDA
/build_Lenny32_Jan2012/lib:/misc/cbmsoft/Lenny32/jan12/fairsoft/lib/root :/misc/cbmsoft/
Lenny32/jan12/fairsoft/lib:/misc/cbmsoft/Lenny32/jan12/fairsoft/lib:/mis
c/cbmsoft/Lenny
32/jan12/fairsoft/lib:/misc/cbmsoft/Lenny32/jan12/fairsoft/lib:/misc/cbm soft/Lenny32/ja
n12/fairsoft/lib:/misc/cbmsoft/Lenny32/jan12/fairsoft/lib:/misc/cbmsoft/
Lenny32/jan12/f
airsoft/lib:/misc/cbmsoft/Lenny32/jan12/fairsoft/lib:/misc/cbmsoft/Lenny 32/jan12/fairso
ft/lib:./misc/cbmsoft/Lenny32/jan12/fairsoft/lib/root:./misc/cbmsoft/Le
nny32/jan12/fai
rsoft/lib/root/cint/cint/stl
Error: Symbol FairEventManager is not defined in current scope eventDisplay.C:24:
Error: Symbol FairEventManager is not defined in current scope eventDisplay.C:24:
Error: type FairEventManager not defined FILE:/u/mpatsyuk/PANDA/trunk/macro/drc/./event
Display.C LINE:24
Warning: Automatic variable FairEventManager*fMan is allocated eventDisplay.C:24:
Error: Undeclared variable FairEventManager*fMan eventDisplay.C:24:
*** Interpreter error recovered ***
```

It seems that indeed the eventDisplay libraries are missing in the lib directory.  
What should I do to be able to run the eventDisplay?

Thank you.

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---

Subject: Re: New external packages (jan12)  
Posted by [Stefano Spataro](#) on Mon, 16 Jan 2012 15:20:39 GMT  
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Hi Maria,  
in theory, in pandaroot/CMakeLists.txt:

```
If(TEvePath)
#find_package(OpenGL)
#If (OPENGL_FOUND AND OPENGL_GLU_FOUND)
  Message("Found TEve, so the eventdisplay will be compiled.")
  add_subdirectory(eventdisplay)
  add_subdirectory(PndEventdisplay)
#EndIf (OPENGL_FOUND AND OPENGL_GLU_FOUND)
EndIf(TEvePath)
```

So maybe the system does not find OPENGL -> it does not compile event display? When you do cmake, does the "Fount TEve" message appear?

---

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Tue, 17 Jan 2012 13:50:15 GMT  
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Dear all,

here in Bonn we are still having a problem while compiling the external packages. We got new working copies (both for the jan12 and for the trunk, both on 32 and 64 bit Etch machines) and the compilation always fails when reaching VGM.  
After getting the following warning:

CMake Warning (dev) at packages/Geant4GM/CMakeLists.txt:20 (link\_directories):  
This command specifies the relative path

```
GEANT4_LIBRARY_DIR-NOTFOUND
```

as a link directory.

Policy CMP0015 is not set: link\_directories() treats paths relative to the source dir. Run "cmake --help-policy CMP0015" for policy details. Use the cmake\_policy command to set the policy and suppress this warning.  
This warning is for project developers. Use -Wno-dev to suppress it.

the errors come:

```
[ 35%] Built target XmlVGM
Scanning dependencies of target Geant4GM
[ 36%] Building CXX object
packages/Geant4GM/CMakeFiles/Geant4GM.dir/source/materials/Element.cxx.o
```



/disk/user/bianco/ext\_jan12\_32/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:26:24: error: G4Element.hh: No such file or directory

Any idea about how to fix this?

Thanks in advance.

Cheers,

Simone

---

Subject: Re: New external packages (jan12)  
Posted by [Maria Patsyuk](#) on Wed, 18 Jan 2012 11:42:30 GMT  
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No, I don't see the TEve message.  
It seems that eventDisplay does not work for me also with Jan2012 packages (

---

Subject: Re: New external packages (jan12)  
Posted by [Radoslaw Karabowicz](#) on Wed, 18 Jan 2012 12:59:04 GMT  
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I think that the problem might actually be hidden in the few lines directly above Stefano's suggestions:

```
176 FIND_PATH(TEvePath NAMES TEveEventManager.h PATHS
177  ${SIMPATH}/tools/root/include
178  NO_DEFAULT_PATH
179 )
```

where CMake is looking for TEveEventManager.h in wrong directory, it should be changed to:

```
176 FIND_PATH(TEvePath NAMES TEveEventManager.h PATHS
177  ${SIMPATH}/include/root
178  NO_DEFAULT_PATH
179 )
```

for JAN12 release. Will test and fix it soon.

yours,  
radek

---

Subject: Re: New external packages (jan12)  
Posted by [Florian Uhlig](#) on Wed, 18 Jan 2012 13:02:14 GMT  
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Hi Radek,

actually there should be both options. One for the old and one for the new installation scheme, because we will have both possibilities in parallel for some time.

Ciao

Florian

---

Subject: Re: New external packages (jan12)  
Posted by [Radoslaw Karabowicz](#) on Wed, 18 Jan 2012 13:13:47 GMT  
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OK, good point. Changing CMakeLists.txt to:

```
FIND_PATH(TEvePath NAMES TEveEventManager.h PATHS
${SIMPATH}/include/root
${SIMPATH}/tools/root/include
NO_DEFAULT_PATH
)
```

yours

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Fri, 20 Jan 2012 11:47:10 GMT  
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Hi,

just to add oil to the fires: I tried installing FairSoft trunk on my Mac (Lion 10.7.2). I had to manually hotfix the Pythia compilation for 64bit mac (from Florian).  
Compilation stops at VGM:

Toggle Spoiler\*\*\* Geant3 compiled successfully \*\*\*

\*\*\* Compiling VGM .....

Patch CMake stuff

```
-- The C compiler identification is GNU
-- The CXX compiler identification is GNU
-- Checking whether C compiler has -isysroot
-- Checking whether C compiler has -isysroot - yes
-- Checking whether C compiler supports OSX deployment target flag
-- Checking whether C compiler supports OSX deployment target flag - yes
-- Check for working C compiler: /usr/bin/gcc
-- Check for working C compiler: /usr/bin/gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Checking whether CXX compiler has -isysroot
-- Checking whether CXX compiler has -isysroot - yes
-- Checking whether CXX compiler supports OSX deployment target flag
```

```
-- Checking whether CXX compiler supports OSX deployment target flag - yes
-- Check for working CXX compiler: /usr/bin/g++
-- Check for working CXX compiler: /usr/bin/g++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
--- Found a Mac OS X System 10.7
--- Found GNU compiler collection
--- Build Type: RelWithDebInfo
--- Compiler Flags: -O2 -m64
-- Looking for CLHEP...
-- Looking for CLHEP... - found /Users/ralfk/Panda/fairsoft_trunk/cern/clhep/lib
-- Looking for GEANT4...
-- Looking for Root...
-- Looking for Root... - found /Users/ralfk/Panda/fairsoft_trunk/tools/root/bin/root
-- Looking for Root... - version 5.32/00
CMake Warning (dev) at packages/Geant4GM/CMakeLists.txt:20 (link_directories):
  This command specifies the relative path
```

GEANT4\_LIBRARY\_DIR-NOTFOUND

as a link directory.

Policy CMP0015 is not set: link\_directories() treats paths relative to the source dir. Run "cmake --help-policy CMP0015" for policy details. Use the cmake\_policy command to set the policy and suppress this warning. This warning is for project developers. Use -Wno-dev to suppress it.

CMake Error: The following variables are used in this project, but they are set to NOTFOUND. Please set them or make sure they are set and tested correctly in the CMake files:

GEANT4\_INCLUDE\_DIR (ADVANCED)

used as include directory in directory

/Users/ralfk/Panda/fairsoft\_trunk/transport/vgm/packages/Geant4GM

```
-- Configuring incomplete, errors occurred!
```

```
make: *** No targets specified and no makefile found. Stop.
```

```
make: *** No rule to make target `install'. Stop.
```

```
scripts/install_vgm.sh: line 43: cd: /Users/ralfk/Panda/fairsoft_trunk/transport/vgm/lib: No such file or directory
```

```
ls: *.dylib: No such file or directory
```

```
*** ERROR: VGM could not be created.
```

```
**** Checking libraries in /Users/ralfk/Panda/fairsoft_trunk/transport/vgm/lib ****
```

```
scripts/functions.sh: line 233: cd: /Users/ralfk/Panda/fairsoft_trunk/transport/vgm/lib: No such file or directory
```

```
ls: *.dylib: No such file or directory
```

```
ls: lib*.a: No such file or directory
```

```
*** End installation of external packages with Errors***
```

Cheers.

Ralf

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Fri, 20 Jan 2012 12:24:37 GMT  
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---

Hallo Ralf,

I have myself Mac OS Lion and it works (it was tested there before any other system)! Also the the "hotfix" for Pythia should be there! So from your output it seems that Geant4 installation went wrong and the FindGEANT4.cmake do not find it. My question did you install a fresh copy of the jan12 or update your old one?

It is funny also that Simone get the same errors on Etch as you on MAC, So the only explanation I can think about at the moment that you try to install in the same directory where something was already installed. if this is not the case then we have to add more oil to the fire.

Mohammad

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Fri, 20 Jan 2012 12:28:45 GMT  
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---

Hi Mohammad.

I freshly downloaed the fairsoft trunk from svn ths morning. Then hit configure.sh. Some time later the thing stopped with that error (and after applying the hotfix & rerunning the compilation).

Could it be that I miss some library which wasn't needed before?

Cheers.  
Ralf

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Fri, 20 Jan 2012 14:38:55 GMT  
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---

Hi Mohammad,

I gave it another try, using a new folder and trying to compile the trunk version of the external packages. During the Geant4 compilation one error occurs:

```
-- [download 70% complete]
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4StepLimiter.cc.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4Transportation.cc.o
[ 83%] Building CXX object
```

```
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4UserSpecialCuts.cc.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4VTrackTerminator.cc.o
Linking CXX shared library ../../outputs/library/Linux-g++/libG4processes.so
Error running link command: Argument list too long
make[2]: *** [outputs/library/Linux-g++/libG4processes.so] Error 2
make[1]: *** [source/processes/CMakeFiles/G4processes.dir/all] Error 2
make[1]: *** Waiting for unfinished jobs....
```

then install script continues running (isn't this bad?) and compiles ROOT, ... Finally while compiling vgm the problems described in my previous post (not finding Geant4's libraries) come and the script stops.

How could I try to fix this problem?

Cheers,

Simone

---

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Fri, 20 Jan 2012 14:40:23 GMT  
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After some Skype discussion with Mohammad, I updated my cmake.  
This was not the problem.

I still get my error, but had to wait all the 85% of G4 compilation again. I found  
GEANT4\_USE\_SYSTEM\_EXPAT: Using system install of EXPAT  
in the configuration logging, which then tries to link:  
ld: warning: ignoring file /usr/local/lib/libexpat.dylib, missing required architecture x86\_64 in file  
This file is given by the system and I have no idea why that should be not 64bit compatible.

Now I'm still puzzled, but differently.

Ralf

---

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Subject: Re: New external packages (jan12)  
Posted by [Maria Patsyuk](#) on Fri, 20 Jan 2012 15:19:30 GMT  
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---

Hi

I tried to install the new packages on my home computer (PandaRoot version 14201, Ubuntu 10.10., I have here already May11 packages) like

```
svn co https://subversion.gsi.de/fairroot/fairsoft/release/jan12
```

and if I run the simulation then after quite successful installation I see the following error. The

thing is that there is no bin/ directory in External\_Jan2012 at all. Why does it ask about it?  
What should I do to avoid such errors?

```
root -l sim_dir.C
root [0]
Processing sim_dir.C...
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-l- FairGeoMedia Read media
Loading Geant4 global libraries ...Our Macro
sh: /home/masha/PANDA/External_Jan2012/bin/geant4-config: not found
Error in <TUnixSystem::GetFromPipe>: command "$SIMPATH/bin/geant4-config --libs"
returned 32512
Loading VGM libraries ...
Loading g4root library ...
dlopen error: /home/masha/PANDA/External_Jan2012/transport/geant4_vmc/lib/tgt_linux/li
bg4root.so: undefined symbol: _ZTI27G4VUserDetectorConstruction
Load Error: Failed to load Dynamic link library
/home/masha/PANDA/External_Jan2012/transport/geant4_vmc/lib/tgt_linux/li bg4root.so
Warning: Return value of void g4libs_global() ignored
/home/masha/PANDA/External_Jan2012/transport/macro/g4libs.C:135:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
Error: type TG4RunConfiguration not defined
FILE:/home/masha/PANDA/trunk/gconfig/g4Config.C LINE:29
Error: Invalid type 'TG4RunConfiguration*' in declaration of 'runConfiguration'
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
*** Interpreter error recovered ***
SetCuts Macro: Setting Processes..
Error: illegal pointer to class object gMC 0x0 839
/home/masha/PANDA/trunk/gconfig/SetCuts.C:23:
*** Interpreter error recovered ***

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

```
=====
There was a crash (kSigSegmentationViolation).
```

```
This is the entire stack trace of all threads:
```

```
=====
#0  0xb7770424 in __kernel_vsyscall ()
#1  0xb6663c53 in waitpid () from /lib/libc.so.6
#2  0xb6604343 in ?? () from /lib/libc.so.6
#3  0xb67369dd in system () from /lib/libpthread.so.0
#4  0xb71889c3 in TUnixSystem::Exec (this=0x94b5730, shellcmd=0x9d65400
"/home/masha/PANDA/External_Jan2012/tools/root/etc/gdb-backtrace.sh 28413 1>&2") at
```

```

/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:2058
#5 0xb718927b in TUnixSystem::StackTrace (this=0x94b5730) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:2306
#6 0xb7186c09 in TUnixSystem::DispatchSignals (this=0x94b5730,
sig=kSigSegmentationViolation) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:1184
#7 0xb7184ba1 in SigHandler (sig=kSigSegmentationViolation) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:367
#8 0xb718c871 in sighandler (sig=11) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:3588
#9 0xb71bcf4c in textinput::TerminalConfigUnix::HandleSignal (this=0xb772eba0, signum=11)
at /home/masha/PANDA/External_Jan2012/tools/root/core/textinput/src/textinp
ut/TerminalConfigUnix.cpp:96
#10 0xb71bca7e in (anonymous namespace)::TerminalConfigUnix__handleSignal
(signum=11) at /home/masha/PANDA/External_Jan2012/tools/root/core/textinput/src/textinp
ut/TerminalConfigUnix.cpp:36
#11 <signal handler called>
#12 0xb2f7c115 in FairMCApplication::InitMC (this=0x9f82808, setup=0x9f8baa8
"/home/masha/PANDA/trunk/gconfig/g4Config.C", cuts=0x9f8ba60
"/home/masha/PANDA/trunk/gconfig/SetCuts.C") at
/home/masha/PANDA/trunk/base/FairMCApplication.cxx:200
#13 0xb2fb0959 in FairRunSim::SetMCConfig (this=0x996bc08) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:345
#14 0xb2faef79 in FairRunSim::Init (this=0x996bc08) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:196
#15 0xb301d9f8 in G__FairDict_982_0_4 (result7=0xbfd9d3e8, funcname=0x9d91bc0 "",
libp=0xbfd92da4, hash=0) at /home/masha/PANDA/build_Jan2012/base/FairDict.cxx:15281
#16 0xb6931b2f in Cint::G__ExceptionWrapper (funcp=0xb301d9d2
<G__FairDict_982_0_4(G__value*, char const*, G__param*, int)>, result7=0xbfd9d3e8,
funcname=0x9d91bc0 "", libp=0xbfd92da4, hash=0) at cint/cint/src/Api.cxx:393
#17 0xb69fd2e3 in G__execute_call (result7=0xbfd9d3e8, libp=0xbfd92da4, ifunc=0x9d91bc0,
ifn=0) at cint/cint/src/newlink.cxx:2406
#18 0xb69fdb22 in G__call_cppfunc (result7=0xbfd9d3e8, libp=0xbfd92da4, ifunc=0x9d91bc0,
ifn=0) at cint/cint/src/newlink.cxx:2610
#19 0xb69d8c79 in G__interpret_func (result7=0xbfd9d3e8, funcname=0x94c4b20 "Init",
libp=0xbfd92da4, hash=404, p_ifunc=0x9d91bc0, funcmatch=1, memfunc_flag=1) at
cint/cint/src/ifunc.cxx:5795
#20 0xb69b4b87 in G__getfunction (item=0x94c1a06 "Init()", known3=0xbfda08d8,
memfunc_flag=1) at cint/cint/src/func.cxx:2665
#21 0xb6adab56 in G__getstructmem (store_var_type=112, varname=...,
membername=0x94c1a06 "Init()", memnamesize=2147483647, tagname=0x94c2210 "fRun",
known2=0xbfda08d8, varglobal=0xb6b94220, objptr=2) at cint/cint/src/var.cxx:6818
#22 0xb6acb46d in G__getvariable (item=0x94c1a00 "fRun->Init()", known=0xbfda08d8,
varglobal=0xb6b94220, varlocal=0x0) at cint/cint/src/var.cxx:5404
#23 0xb69a4ce1 in G__getitem (item=0x94c1a00 "fRun->Init()") at cint/cint/src/expr.cxx:1906
#24 0xb69a2805 in G__getexpr (expression=0x94dfc60 "fRun->Init()") at
cint/cint/src/expr.cxx:1488
#25 0xb6a2d7b0 in G__exec_function (statement=..., pc=0xbfda2828, piout=0xbfda2820,
plargestep=0xbfda2810, presult=0xbfda2714) at cint/cint/src/parse.cxx:645
#26 0xb6a3d80d in G__exec_statement (mparen=0xbfda28e4) at cint/cint/src/parse.cxx:7372
#27 0xb6978386 in G__exec_tempfile_core (file=0x94df458
"/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", fp=0x0) at cint/cint/src/debug.cxx:265

```

```
#28 0xb6979d53 in G__exec_tempfile (file=0x94df458
"/home/masha/PANDA/trunk/macro/drc/./sim_dir.C") at cint/cint/src/debug.cxx:813
#29 0xb6a4bd2f in G__process_cmd (line=0x983f088 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", prompt=0x94b9394 "", more=0x94b938c,
err=0xbfda39e4, rslt=0xbfda39a0) at cint/cint/src/pause.cxx:3182
#30 0xb71373e1 in TCint::ProcessLine (this=0x94b9360, line=0x983f088 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", error=0xbfda45d0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/meta/src/TCint.cxx:53 8
#31 0xb713793c in TCint::ProcessLineSynch (this=0x94b9360, line=0x983f088 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", error=0xbfda45d0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/meta/src/TCint.cxx:61 7
#32 0xb706d1c0 in TApplication::ExecuteFile (file=0xbfda45dd "sim_dir.C",
error=0xbfda45d0, keep=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:1023
#33 0xb706c978 in TApplication::ProcessFile (this=0x957b9c0, file=0xbfda45dd "sim_dir.C",
error=0xbfda45d0, keep=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:899
#34 0xb706c88d in TApplication::ProcessLine (this=0x957b9c0, line=0xbfda45da ".x
sim_dir.C", sync=false, err=0xbfda45d0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:872
#35 0xb6896f36 in TRint::Run (this=0x957b9c0, retn=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/rint/src/TRint.cxx:41 8
#36 0x08048ed3 in main (argc=1, argv=0xbfda6734) at
/home/masha/PANDA/External_Jan2012/tools/root/main/src/rmain.cxx:29
=====
```

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.

```
=====
#12 0xb2f7c115 in FairMCApplication::InitMC (this=0x9f82808, setup=0x9f8baa8
"/home/masha/PANDA/trunk/gconfig/g4Config.C", cuts=0x9f8ba60
"/home/masha/PANDA/trunk/gconfig/SetCuts.C") at
/home/masha/PANDA/trunk/base/FairMCApplication.cxx:200
#13 0xb2fb0959 in FairRunSim::SetMCConfig (this=0x996bc08) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:345
#14 0xb2faef79 in FairRunSim::Init (this=0x996bc08) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:196
=====
```

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 08:52:56 GMT  
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Hi Ralf,



For the Pythia6 problem I managed to reproduce it! It worked in my case because I have the "libgfortran.a" twice in /usr/local/lib/x86\_64 and /usr/local/lib. Sorry for that now the script is modified in SVN and should be able handle it.

I am still trying to reproduce it. I will let you know as soon as possible.

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 09:26:07 GMT  
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---

Hallo Simone,

Which CMAKE you use? is it coming from the system or from the external packages?

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Mon, 23 Jan 2012 09:34:36 GMT  
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---

Hi Mohammad,

the system has cmake 2.4, so running config.sh the cmake included in the external packages is compiled (so it should be used during the rest of the compilation of the packages, am I wrong?).

Simone

---

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 09:43:15 GMT  
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---

Hi Simone,

Yes, you are right and I am more puzzled than before!

Mohammad

---

---

Subject: Re: New external packages (jan12)

---

Posted by [Florian Uhlig](#) on Mon, 23 Jan 2012 09:55:19 GMT

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---

Hi,

you can check in the CMakeCache.txt in the build directory which CMake version was used to generate the Makefiles. Maybe you will find something in this file. The important variables are

```
CMakeCache.txt://Major version of cmake used to create the current loaded cache
CMakeCache.txt:CMAKE_CACHE_MAJOR_VERSION:INTERNAL=2
CMakeCache.txt://Minor version of cmake used to create the current loaded cache
CMakeCache.txt:CMAKE_CACHE_MINOR_VERSION:INTERNAL=8
CMakeCache.txt://Patch version of cmake used to create the current loaded cache
CMakeCache.txt:CMAKE_CACHE_PATCH_VERSION:INTERNAL=4
```

Ciao

Florian

---

---

Subject: Re: New external packages (jan12)

Posted by [Simone Bianco](#) on Mon, 23 Jan 2012 10:09:35 GMT

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---

Hi,

so my trunk/transport/geant4.9.5/build/CMakeCache.txt says:

```
//Major version of cmake used to create the current loaded cache
CMAKE_CACHE_MAJOR_VERSION:INTERNAL=2
//Minor version of cmake used to create the current loaded cache
CMAKE_CACHE_MINOR_VERSION:INTERNAL=8
//Patch version of cmake used to create the current loaded cache
CMAKE_CACHE_PATCH_VERSION:INTERNAL=6
```

Cheers,

Simone

---

---

Subject: Re: New external packages (jan12)

Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 10:16:27 GMT

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---

Hi,

It seems that we are facing G4 problems now! take a look to:

[http://hypernews.slac.stanford.edu/HyperNews/geant4/get/installconfig/14\\_25.html?inline=-1](http://hypernews.slac.stanford.edu/HyperNews/geant4/get/installconfig/14_25.html?inline=-1)

it is the same problems which we have!

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Mon, 23 Jan 2012 12:48:47 GMT  
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---

Hi Mahammad,  
you're right, it's exactly the same problem and in both cases it appears at the same point of the G4 compilation. I tried now to add " -DBUILD\_SHARED\_LIBS=OFF  
-DBUILD\_STATIC\_LIBS=ON " in the cmake argument list in script/install\_geant4.sh as suggested in the post you linked in order to use static libraries.

During the G4 compilation, at the same point I now get

```
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes-static.dir/transportation/src/G4UserSpecialCuts.cc
.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes-static.dir/transportation/src/G4VTrackTerminator.c
c.o
Linking CXX static library ../../outputs/library/Linux-g++/libG4processes.a
[ 83%] Built target G4processes-static
Scanning dependencies of target G4tracking-static
Scanning dependencies of target G4parmodels-static
[ 83%] [ 83%] Building CXX object
source/parameterisations/CMakeFiles/G4parmodels-static.dir/gflash/src/GFlashEnergySpot.cc.
o
[ 83%] Building CXX object
source/parameterisations/CMakeFiles/G4parmodels-static.dir/gflash/src/GFlashHitMaker.cc.o
```

No errors appear during the compilation of Geant4.

During the checks before the vgm compilation I still get

```
*** Compiling VGM .....
Patch CMake stuff
-- The C compiler identification is GNU
-- The CXX compiler identification is GNU
-- Check for working C compiler: /usr/bin/gcc
-- Check for working C compiler: /usr/bin/gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
```

```
-- Check for working CXX compiler: /usr/bin/g++
-- Check for working CXX compiler: /usr/bin/g++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
--- Found a Linux ssystem
--- Found GNU compiler collection
--- Build Type: RelWithDebInfo
--- Compiler Flags: -O3
-- Looking for CLHEP...
-- Looking for CLHEP... - found /disk/user/bianco/ext_jan12_32/build/lib
-- Looking for GEANT4...
-- Looking for Root...
-- Looking for Root... - found /disk/user/bianco/ext_jan12_32/build/bin/root
-- Looking for Root... - version 5.32/00
CMake Warning (dev) at packages/Geant4GM/CMakeLists.txt:20 (link_directories):
  This command specifies the relative path
```

GEANT4\_LIBRARY\_DIR-NOTFOUND

as a link directory.

Policy CMP0015 is not set: link\_directories() treats paths relative to the source dir. Run "cmake --help-policy CMP0015" for policy details. Use the cmake\_policy command to set the policy and suppress this warning. This warning is for project developers. Use -Wno-dev to suppress it.

```
-- Configuring done
-- Generating done
-- Build files have been written to:
/disk/user/bianco/ext_jan12_32/jan12/transport/vgm/build_cmake
```

but this doesn't stop the compilation, which runs smooth until the end.  
I finally get  
"\*\*\* End installation of external packages without Errors\*\*\*".

Is there any drawback in having static libraries for Geant4 (except for space occupancy)?

Cheers,

Simone

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 13:46:43 GMT  
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Hi Simone,

Static libraries are not a problem, Just try to build PandaRoot with this and run the tests.

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Simone Bianco](#) on Mon, 23 Jan 2012 14:13:21 GMT  
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---

Hi,

pandaroot trunk compiled and I ran

```
macro/pid/run_sim_sttcombi_pgun.C  
macro/pid/run_digi_sttcombi.C  
macro/pid/run_reco_sttcombi.C  
macro/pid/run_pid_stt.C
```

without problems.

Thanks a lot for you help!

Simone

---

---

Subject: Re: New external packages (jan12)  
Posted by [StefanoSpataro](#) on Mon, 23 Jan 2012 14:20:44 GMT  
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Finally...

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Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 20:39:59 GMT  
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---

Hallo Maria,

I could reproduce this error on Ubuntu, I changed the FindGEANT4.cmake in the cmake/modules directory, can you please update your pandaroot and test again.

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Maria Patsyuk](#) on Mon, 23 Jan 2012 21:45:37 GMT  
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---

Dear Mohammad,

thank you,

I updated the cmake directory (at revision 14216), then hit 'cmake', './config.sh', 'make' and tried the simulation again.

Unfortunately I have the same error again.

```
root -l sim_dir.C
root [0]
Processing sim_dir.C...
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-l- FairGeoMedia Read media
Loading Geant4 global libraries ...Our Macro
sh: /home/masha/PANDA/External_Jan2012/bin/geant4-config: not found
Error in <TUnixSystem::GetFromPipe>: command "$SIMPATH/bin/geant4-config --libs"
returned 32512
Loading VGM libraries ...
Loading g4root library ...
dlopen error: /home/masha/PANDA/External_Jan2012/transport/geant4_vmc/lib/tgt_linux/li
bg4root.so: undefined symbol: _ZTI27G4VUserDetectorConstruction
Load Error: Failed to load Dynamic link library
/home/masha/PANDA/External_Jan2012/transport/geant4_vmc/lib/tgt_linux/li bg4root.so
Warning: Return value of void g4libs_global() ignored
/home/masha/PANDA/External_Jan2012/transport/macro/g4libs.C:135:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
Error: type TG4RunConfiguration not defined
FILE:/home/masha/PANDA/trunk/gconfig/g4Config.C LINE:29
Error: Invalid type 'TG4RunConfiguration*' in declaration of 'runConfiguration'
/home/masha/PANDA/trunk/gconfig/g4Config.C:29:
*** Interpreter error recovered ***
SetCuts Macro: Setting Processes..
Error: illegal pointer to class object gMC 0x0 839
/home/masha/PANDA/trunk/gconfig/SetCuts.C:23:
*** Interpreter error recovered ***

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

```
=====
There was a crash (kSigSegmentationViolation).
```

```
This is the entire stack trace of all threads:
```

```
=====
#0  0xb78b9424 in __kernel_vsyscall ()
#1  0xb67acc53 in waitpid () from /lib/libc.so.6
```

```

#2 0xb674d343 in ?? () from /lib/libc.so.6
#3 0xb687f9dd in system () from /lib/libpthread.so.0
#4 0xb72d19c3 in TUnixSystem::Exec (this=0x8377730, shellcmd=0x8c27b38
"/home/masha/PANDA/External_Jan2012/tools/root/etc/gdb-backtrace.sh 11466 1>&2") at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:2058
#5 0xb72d227b in TUnixSystem::StackTrace (this=0x8377730) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:2306
#6 0xb72cfc09 in TUnixSystem::DispatchSignals (this=0x8377730,
sig=kSigSegmentationViolation) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:1184
#7 0xb72cdba1 in SigHandler (sig=kSigSegmentationViolation) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:367
#8 0xb72d5871 in sighandler (sig=11) at
/home/masha/PANDA/External_Jan2012/tools/root/core/unix/src/TUnixSystem.cxx:3588
#9 0xb7305f4c in textinput::TerminalConfigUnix::HandleSignal (this=0xb7877ba0, signum=11)
at /home/masha/PANDA/External_Jan2012/tools/root/core/textinput/src/textinp
ut/TerminalConfigUnix.cpp:96
#10 0xb7305a7e in (anonymous namespace)::TerminalConfigUnix__handleSignal
(signum=11) at /home/masha/PANDA/External_Jan2012/tools/root/core/textinput/src/textinp
ut/TerminalConfigUnix.cpp:36
#11 <signal handler called>
#12 0xb30c5115 in FairMCApplication::InitMC (this=0x8e44f08, setup=0x8e4e1a8
"/home/masha/PANDA/trunk/gconfig/g4Config.C", cuts=0x8e4e160
"/home/masha/PANDA/trunk/gconfig/SetCuts.C") at
/home/masha/PANDA/trunk/base/FairMCApplication.cxx:200
#13 0xb30f9959 in FairRunSim::SetMCConfig (this=0x882e290) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:345
#14 0xb30f7f79 in FairRunSim::Init (this=0x882e290) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:196
#15 0xb31669f8 in G__FairDict_982_0_4 (result7=0xbfb1a9b8, funcname=0x8c54298 "",
libp=0xbfb10374, hash=0) at /home/masha/PANDA/build_Jan2012/base/FairDict.cxx:15281
#16 0xb6a7ab2f in Cint::G__ExceptionWrapper (funcp=0xb31669d2
<G__FairDict_982_0_4(G__value*, char const*, G__param*, int)>, result7=0xbfb1a9b8,
funcname=0x8c54298 "", libp=0xbfb10374, hash=0) at cint/cint/src/Api.cxx:393
#17 0xb6b462e3 in G__execute_call (result7=0xbfb1a9b8, libp=0xbfb10374, ifunc=0x8c54298,
ifn=0) at cint/cint/src/newlink.cxx:2406
#18 0xb6b46b22 in G__call_cppfunc (result7=0xbfb1a9b8, libp=0xbfb10374, ifunc=0x8c54298,
ifn=0) at cint/cint/src/newlink.cxx:2610
#19 0xb6b21c79 in G__interpret_func (result7=0xbfb1a9b8, funcname=0x8386b20 "Init",
libp=0xbfb10374, hash=404, p_ifunc=0x8c54298, funcmatch=1, memfunc_flag=1) at
cint/cint/src/ifunc.cxx:5795
#20 0xb6afdb87 in G__getfunction (item=0x8383a06 "Init()", known3=0xbfb1dea8,
memfunc_flag=1) at cint/cint/src/func.cxx:2665
#21 0xb6c23b56 in G__getstructmem (store_var_type=112, varname=...,
membername=0x8383a06 "Init()", memnamesize=2147483647, tagname=0x8384210 "fRun",
known2=0xbfb1dea8, varglobal=0xb6cdd220, objptr=2) at cint/cint/src/var.cxx:6818
#22 0xb6c1446d in G__getvariable (item=0x8383a00 "fRun->Init()", known=0xbfb1dea8,
varglobal=0xb6cdd220, varlocal=0x0) at cint/cint/src/var.cxx:5404
#23 0xb6aedce1 in G__getitem (item=0x8383a00 "fRun->Init()") at cint/cint/src/expr.cxx:1906
#24 0xb6aeb805 in G__getexpr (expression=0x83a1c60 "fRun->Init()") at
cint/cint/src/expr.cxx:1488
#25 0xb6b767b0 in G__exec_function (statement=..., pc=0xbfb1fdf8, piout=0xbfb1fdf0,

```

```
plargestep=0xbfb1fde0, presult=0xbfb1fce4) at cint/cint/src/parse.cxx:645
#26 0xb6b8680d in G__exec_statement (mparen=0xbfb1feb4) at cint/cint/src/parse.cxx:7372
#27 0xb6ac1386 in G__exec_tempfile_core (file=0x83a1458
"/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", fp=0x0) at cint/cint/src/debug.cxx:265
#28 0xb6ac2d53 in G__exec_tempfile (file=0x83a1458
"/home/masha/PANDA/trunk/macro/drc/./sim_dir.C") at cint/cint/src/debug.cxx:813
#29 0xb6b94d2f in G__process_cmd (line=0x8701078 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", prompt=0x837b394 "", more=0x837b38c,
err=0xbfb20fb4, rslt=0xbfb20f70) at cint/cint/src/pause.cxx:3182
#30 0xb72803e1 in TCint::ProcessLine (this=0x837b360, line=0x8701078 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", error=0xbfb21ba0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/meta/src/TCint.cxx:53 8
#31 0xb728093c in TCint::ProcessLineSynch (this=0x837b360, line=0x8701078 ".x
/home/masha/PANDA/trunk/macro/drc/./sim_dir.C", error=0xbfb21ba0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/meta/src/TCint.cxx:61 7
#32 0xb71b61c0 in TApplication::ExecuteFile (file=0xbfb21bad "sim_dir.C",
error=0xbfb21ba0, keep=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:1023
#33 0xb71b5978 in TApplication::ProcessFile (this=0x843d9c0, file=0xbfb21bad "sim_dir.C",
error=0xbfb21ba0, keep=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:899
#34 0xb71b588d in TApplication::ProcessLine (this=0x843d9c0, line=0xbfb21baa ".x
sim_dir.C", sync=false, err=0xbfb21ba0) at
/home/masha/PANDA/External_Jan2012/tools/root/core/base/src/TApplication .cxx:872
#35 0xb69dff36 in TRint::Run (this=0x843d9c0, retrn=false) at
/home/masha/PANDA/External_Jan2012/tools/root/core/rint/src/TRint.cxx:41 8
#36 0x08048ed3 in main (argc=1, argv=0xbfb23d04) at
/home/masha/PANDA/External_Jan2012/tools/root/main/src/rmain.cxx:29
=====
```

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.

```
=====
#12 0xb30c5115 in FairMCApplication::InitMC (this=0x8e44f08, setup=0x8e4e1a8
"/home/masha/PANDA/trunk/gconfig/g4Config.C", cuts=0x8e4e160
"/home/masha/PANDA/trunk/gconfig/SetCuts.C") at
/home/masha/PANDA/trunk/base/FairMCApplication.cxx:200
#13 0xb30f9959 in FairRunSim::SetMCConfig (this=0x882e290) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:345
#14 0xb30f7f79 in FairRunSim::Init (this=0x882e290) at
/home/masha/PANDA/trunk/base/FairRunSim.cxx:196
=====
```

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 21:48:29 GMT



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---

Hi Maria,

Please delete the config.sh and the CMakeCache.txt in your build directory and run the cmake again, this worked for me on Ubuntu!

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Mon, 23 Jan 2012 22:03:37 GMT  
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---

Hallo Maria,

Finally I found it, you need to call svn update in:  
\$SIMPATH/transport/macro

to update the g4libs.C macro.

Sorry for that.

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Tue, 24 Jan 2012 14:26:44 GMT  
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---

Hello everyone,

After downloading the jan12 release (updated) this morning it compiles until VGM (log below in the spoiler). I used a separate build path.

Regards.  
Ralf

Toggle Spoiler[ 36%] Building CXX object  
packages/Geant4GM/CMakeFiles/Geant4GM.dir/source/materials/Element.cxx.o  
/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:26:24: error: G4Element.hh: No such file or directory  
/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In constructor 'Geant4GM::Element::Element(const  
std::string&, const std::string&, double, double)':  
/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:34: error: invalid use of incomplete type 'struct  
G4Element'  
/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct

## G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In constructor 'Geant4GM::Element::Element(const  
std::string&, const std::string&, const VGM::IsotopeVector&, const  
VGM::RelAbundanceVector&):

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:78: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:84: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In member function 'virtual std::string  
Geant4GM::Element::Name() const':

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:143: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In member function 'virtual std::string  
Geant4GM::Element::Symbol() const':

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:149: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::Z()  
const':

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:155: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::N()  
const':

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
source/materials/Element.cxx:161: error: invalid use of incomplete type 'struct  
G4Element'

/Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/  
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct

```

G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::A()
const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:167: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual int
Geant4GM::Element::NofIsotopes() const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:173: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual VGM::Isotope*
Geant4GM::Element::Isotope(int) const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:181: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual double
Geant4GM::Element::RelAbundance(int) const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:190: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
make[2]: *** [packages/Geant4GM/CMakeFiles/Geant4GM.dir/source/materials/Element.cxx.
o] Error 1
make[1]: *** [packages/Geant4GM/CMakeFiles/Geant4GM.dir/all] Error 2
make: *** [all] Error 2
[ 2%] Built target ClhepVGM
[ 28%] Built target BaseVGM
[ 35%] Built target XmlVGM
[ 36%] Building CXX object
packages/Geant4GM/CMakeFiles/Geant4GM.dir/source/materials/Element.cxx.o
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:26:24: error: G4Element.hh: No such file or directory
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In constructor 'Geant4GM::Element::Element(const
std::string&, const std::string&, double, double)':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/

```

source/materials/Element.cxx:34: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx: In constructor 'Geant4GM::Element::Element(const std::string&, const std::string&, const VGM::IsotopeVector&, const VGM::RelAbundanceVector&):'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:78: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:84: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx: In member function 'virtual std::string Geant4GM::Element::Name() const':  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:143: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx: In member function 'virtual std::string Geant4GM::Element::Symbol() const':  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:149: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::Z() const':  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx:155: error: invalid use of incomplete type 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct G4Element'  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::N() const':  
 /Users/ralfk/Panda/fairsoft\_files/jan12/transport/vgm/packages/Geant4GM/

```

source/materials/Element.cxx:161: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual double Geant4GM::Element::A()
const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:167: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual int
Geant4GM::Element::NofIsotopes() const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:173: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual VGM::IIsotope*
Geant4GM::Element::Isotope(int) const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:181: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx: In member function 'virtual double
Geant4GM::Element::RelAbundance(int) const':
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
source/materials/Element.cxx:190: error: invalid use of incomplete type 'struct
G4Element'
/Users/ralfk/Panda/fairsoft_files/jan12/transport/vgm/packages/Geant4GM/
include/Geant4GM/materials/Element.h:27: error: forward declaration of 'struct
G4Element'
make[2]: *** [packages/Geant4GM/CMakeFiles/Geant4GM.dir/source/materials/Element.cxx.
o] Error 1
make[1]: *** [packages/Geant4GM/CMakeFiles/Geant4GM.dir/all] Error 2
make: *** [all] Error 2
In: libCLHEP-2.1.1.0.so: File exists
In: libCLHEP-Cast-2.1.1.0.so: File exists
In: libCLHEP-Evaluator-2.1.1.0.so: File exists
In: libCLHEP-Exceptions-2.1.1.0.so: File exists
In: libCLHEP-GenericFunctions-2.1.1.0.so: File exists
In: libCLHEP-Geometry-2.1.1.0.so: File exists
In: libCLHEP-Matrix-2.1.1.0.so: File exists

```

In: libCLHEP-Random-2.1.1.0.so: File exists  
In: libCLHEP-RandomObjects-2.1.1.0.so: File exists  
In: libCLHEP-RefCount-2.1.1.0.so: File exists  
In: libCLHEP-Vector-2.1.1.0.so: File exists  
In: libCLHEP.so: File exists  
In: libPluto.so: File exists  
In: libPythia6.so: File exists  
In: libapmoncpp.2.0.6.so: File exists  
In: libapmoncpp.2.so: File exists  
In: libapmoncpp.so: File exists  
In: libboost\_prg\_exec\_monitor.so: File exists  
In: libboost\_random.so: File exists  
In: libboost\_regex.so: File exists  
In: libboost\_unit\_test\_framework.so: File exists  
In: libglpk.0.so: File exists  
In: libglpk.so: File exists  
In: libgsl.0.so: File exists  
In: libgsl.so: File exists  
In: libgslcblas.0.so: File exists  
In: libgslcblas.so: File exists  
In: liblhpdummy.so: File exists  
In: libmonalisawsclient.1.0.0.so: File exists  
In: libmonalisawsclient.1.so: File exists  
In: libmonalisawsclient.so: File exists  
In: libpythia8.so: File exists  
\*\*\* ERROR: VGM could not be created.  
\*\*\*\* Checking libraries in /Users/ralfk/Panda/fairsoft\_files/jan12build/lib \*\*\*\*  
\*\*\* End installation of external packages with Errors\*\*\*  
ralfk@oddbox:~/Panda/fairsoft\_files/jan12>

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Tue, 24 Jan 2012 16:41:00 GMT  
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Hello again,

The problem could be cornered! I have still the same issue that the G4 compilation fails due to libExpat. I have a 32bit version installed, while G4 wants to install in 64bit. The check for the library presence seems to not check the 64bit compatibility and hence doesn't use the built in version of it.

Thanks to Mohammad. Now we just need a fix for that...

Cheers  
Ralf

---

Subject: Re: New external packages (jan12)

Posted by [Maria Patsyuk](#) on Tue, 24 Jan 2012 18:50:17 GMT

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---

Mohammad,

thank you very much,  
now the DIRC simulation is working with the Jan12 external packages!

Best regards,  
Maria

---

---

Subject: Re: New external packages (jan12)

Posted by [Mohammad Al-Turany](#) on Tue, 24 Jan 2012 19:46:32 GMT

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---

Hi Ralf,

Unfortunately, I did not find anyway to switch of the usage of the system expat library without hacking the G4 code! So may be you can try to install the proper Expat library for your system, i.e:

```
> sudo port install expat
```

This should fetch and install "expat-2.0.1\_1.darwin\_11.x86\_64.tgz"

In case this does not work you have to edit the file:  
geant4.9.5/cmake/Modules/Geant4OptionalComponents.cmake and comment out the line 72.  
i.e:

```
find_package(EXPAT)
```

but this I would do as last solution!

Cheers,

Mohammad

---

---

Subject: Re: New external packages (jan12)

Posted by [Ralf Kliemt](#) on Wed, 25 Jan 2012 10:16:27 GMT

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---

Mohammad Al-Turany wrote on Tue, 24 January 2012 20:46

```
> sudo port install expat
```

This should fetch and install "expat-2.0.1\_1.darwin\_11.x86\_64.tgz"

---

I only get:  
expat @2.0.1\_1+universal

This is ppc and i386, but no 64bit. I found a ticket for that, 18 months old, but deleted after 1 year of inactivity. So it seems there is no 64bit expat in macports.

Ralf

---

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Wed, 25 Jan 2012 10:28:27 GMT  
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---

Hi,

Is your MAC 64 or 32? because for me I get exactly this:

expat-2.0.1\_1.darwin\_11.x86\_64.tgz

DO you have a MaCbook or MacBook Pro?

Mohammad

---

---

Subject: Re: New external packages (jan12)  
Posted by [Ralf Kliemt](#) on Wed, 25 Jan 2012 10:33:04 GMT  
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---

Well, the label reads MacBook, but it is one of the early aluminim shell models (now "Pro"). So, yes! 64bit System.

Ralf

EDIT: Commenting the find\_package(EXPAT) did the job. At least I've it compiled, finally.  
Tahnks Mohammad.

Ralf

---

---

Subject: Re: New external packages (jan12)  
Posted by [Christian Hammann](#) on Thu, 16 Feb 2012 16:55:08 GMT  
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---

Hi everybody,

unfortunately there are still problems with the new external packages here in Bonn. We had the problem compiling Geant4 which was reported by Simone. He solved it by compiling Geant4 as a static library instead of a dynamic one.

At first this seemed to work, but it turned out Simone only tested it with Geant3. If one tries to use Geant4 root is not able to load (some of) the required Geant4 libs and gives the following



error:

```
dlopen error: /disk/user/bianco/ext_jan12_32/build/lib/libG4Tree.a: invalid ELF header
Load Error: Failed to load Dynamic link library
/disk/user/bianco/ext_jan12_32/build/lib/libG4Tree.a
```

So we are back to the original compilation error of Geant:

```
-- [download 70% complete]
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4StepLimiter.cc.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4Transportation.cc.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4UserSpecialCuts.cc.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes.dir/transportation/src/G4VTrackTerminator.cc.o
Linking CXX shared library ../../outputs/library/Linux-g++/libG4processes.so
Error running link command: Argument list too long
make[2]: *** [outputs/library/Linux-g++/libG4processes.so] Error 2
make[1]: *** [source/processes/CMakeFiles/G4processes.dir/all] Error 2
make[1]: *** Waiting for unfinished jobs....
```

Any ideas on that?

Cheers,  
Christian

---

Subject: Re: New external packages (jan12)  
Posted by [Mohammad Al-Turany](#) on Thu, 16 Feb 2012 19:14:56 GMT  
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Hallo Christian,

Unfortunately it is a problem of Geant4 itself with the max argument length in the kernel of your linux. As far as I can see you use Debian Etch, so it is 5 years old and the support was stopped in Feb. 2010 (<http://www.debian.org/releases/etch/>) . in the new linux releases they remove this limit completely.

This problem was also reported on the G4 site with out any solution! except a hint on how to increase the maximum length of the argument list by recompiling the kernel (see: <http://www.gnu.org/software/coreutils/faq/#Argument-list-too-long>) so I am not sure if this is really an option for you.

best regards,

Mohammad

---

Subject: Re: New external packages (jan12)  
Posted by [Florian Uhlig](#) on Fri, 17 Feb 2012 09:13:16 GMT  
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Hi Christian,

please have a look which kernel version you use at Bonn.  
According to <http://www.in-ulm.de/~mascheck/various/argmax/> there was a change in the handling the maximum number of arguments with kernel version 2.6.23.

Before this version the value was hardcoded in the kernel source code, with this version the size is set to 1/4 of the stack size which can be changed ( at least if I am correct).

This size you can check with "ulimit -s" inside a terminal. At the GSI Etch system it is set to 8192 kB.

With "ulimit -s <newsize in kB>" you can change the size. Maybe increasing the size on your system solves the problem for you, but I am not sure about that. But I think it is worth a try. The changes are only in the actual shell and newly created sub shells.

Ciao

Florian

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Subject: Re: New external packages (jan12)  
Posted by [Christian Hammann](#) on Tue, 21 Feb 2012 14:17:51 GMT  
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Hi,

thanks for the tips. On most machines we are running a 2.6.18 kernel. This kernel seems to have a fixed size of 128kB for the argument list.

We also have a test machine with a 2.6.32 kernel. For this machine the argument list can be 2MB (1/4 of the stacksize). On this machine I can compile the external packages without problem. Unfortunately I can then run geant4 only on that machine.

I'll live with that for now, and look into a more permanent solution after the panda meeting.

Cheers  
Christian

P.S.: one can check the maximum size for the argument list with 'getconf ARG\_MAX'.

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Subject: Re: New external packages (jan12)  
Posted by [Florian Uhlig](#) on Tue, 21 Feb 2012 15:45:34 GMT  
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Hi Christian,

is the test machine also a machine with Debian Etch? By the way there are no security updates for Etch since some time, so maybe you should move to a newer version of the operating system.

Ciao

Florian

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Subject: Re: New external packages (jan12)  
Posted by [Christian Hammann](#) on Tue, 21 Feb 2012 16:41:43 GMT  
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Hi Florian,

no the test machine is not a etch but squeeze. I'm aware that etch doesn't get any more updates. I agree that an update of our systems is inevitable at some point. But this will require quite some work, as we are also running some old (analysis) software on our machines.

Cheers  
Christian

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