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Subject: Install error external packages "apr 13" and Kubuntu 14.04

Posted by [MartinJGaluska](#) on Sun, 20 Apr 2014 16:41:37 GMT

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Hello,

I have just tried to compile the external packages "apr 13" on a fresh install of Kubuntu 14.04 64 bit. apr 13 is the recommended version for the PandaRoot trunk.

It seems that there is a problem with the compilation of root. I actually found my problem described here:

<https://sft.its.cern.ch/jira/browse/ROOT-5817>

Quote:

Olivier Couet added a comment - 10/Dec/13 11:13 AM

We do support locally installed freetype (to use the ROOT freetype one has to do the configure with the option `--enable-buildin-freetype`). Now the version of freetype in ROOT is 2.3.12 the new one is 2.5.1. I managed to reproduce the problem replacing 2.3.12 by 2.5.1 in the local version. It seems that the problem comes for the fact that 2.5.1 puts its include file a level higher than 2.3.12. I guess we have to support both.

However, I don't know how to fix the problem myself.

Here is my error output:

Quote:

Enabled support for asimage, astiff, builtin\_afterimage, builtin\_ftgl, builtin\_glew, builtin\_pcre, builtin\_lzma, explicitlink, gdml, genvector, mathmore, memstat, minuit2, monalisa, opengl, pythia6, pythia8, roofit, shadowpw, shared, soversion, tmva, x11, xft.

To build ROOT type:

```
make
make install
```

```
bin/rmkdepend -R -fcore/base/src/TROOT.d -Y -w 1000 -- -pipe -m64 -Wshadow -Wall -W
-Woverloaded-virtual -fPIC -linclude -DR__HAVE_CONFIG -pthread -D__cplusplus --
/home/fairroot/apr13/tools/root/core/base/src/TROOT.cxx
g++ -O2 -pipe -m64 -Wshadow -Wall -W -Woverloaded-virtual -fPIC -linclude
-DR__HAVE_CONFIG -pthread -o core/base/src/TROOT.o -c
/home/fairroot/apr13/tools/root/core/base/src/TROOT.cxx
*** Building libAfterImage ...
make[1]: Entering directory `/home/fairroot/apr13/tools/root/graf2d/asimage/src/libAfterImage'
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c asfont.c -o
asfont.o
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c transform.c -o
transform.o
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c ungif.c -o ungif.o
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c xcf.c -o xcf.o
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c ximage.c -o
ximage.o
```

```
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c xpm.c -o xpm.o
asfont.c:67:33: fatal error: freetype/freetype.h: No such file or directory
# include <freetype/freetype.h>
      ^
compilation terminated.
```

...

Lots of output in between...

...

```
,ake[1]: Leaving directory `/home/fairroot/apr13/tools/root/graf2d/asimage/src/libAfterImage'
make: *** [graf2d/asimage/src/libAfterImage/libAfterImage.a] Error 2
make: *** Waiting for unfinished jobs....
*** Building libAfterImage ...
make[1]: Entering directory `/home/fairroot/apr13/tools/root/graf2d/asimage/src/libAfterImage'
gcc -m64 -O3 -DNO_DEBUG_OUTPUT -fPIC -I/usr/include/freetype2 -c asfont.c -o
asfont.o
asfont.c:67:33: fatal error: freetype/freetype.h: No such file or directory
# include <freetype/freetype.h>
      ^
compilation terminated.
make[1]: *** [asfont.o] Error 1
make[1]: Leaving directory `/home/fairroot/apr13/tools/root/graf2d/asimage/src/libAfterImage'
make: *** [graf2d/asimage/src/libAfterImage/libAfterImage.a] Error 2
**** Checking libraries in /home/fairroot/apr13build/lib ****
*** ERROR: root could not be created.
*** End installation of external packages with Errors***
```

Thank you for your help!  
Martin

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Subject: Re: Install error external packages "apr 13" and Kubuntu 14.04  
Posted by [MartinJGaluska](#) on Tue, 22 Apr 2014 09:19:55 GMT  
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Hello all,

last night I had an idea how to work around the problem I encountered with the compilation of the external packages apr13 with Kubuntu 14.04 and this morning I tried it. The workaround seems to have worked.

In case anybody else would like to upgrade to \*buntu 14.04 here is what you can do in order to compile the external packages apr13:

```
cd /usr/include/freetype2
```

sudo ln -s . freetype

Now root should be able to find the freetype.h header.

The rest of the compilation worked without any problems.

I believe that alternatively, one could also change the scripts

apr13/tools/rootconfig.sh

and

apr13/tools/root/rootconfig.sh

(I'm not sure which one is being used, both scripts are identical, so I would just change both)

and add

--enable-builtin-freetype

to the lines

```
./configure $arch --enable-soversion $XROOTD $ROOFIT \  
    --enable-minuit2 --enable-gdml --enable-xml \  
--enable-builtin-ftgl --enable-builtin-glew \  
--with-pythia6-libdir=$pythia6_libdir \  
--with-pythia8-libdir=$pythia8_libdir \  
--with-pythia8-incdir=$pythia8_incdir \  
--enable-mysql --enable-pgsql \  
    --disable-globus \  
    --disable-reflex \  
    --disable-cintex \  
--with-monalisa-libdir=$monalisa_dir/lib \  
--with-monalisa-incdir=$monalisa_dir/include \  
    --with-gsl-incdir=$gsl_dir/include \  
    --with-gsl-libdir=$gsl_dir/lib \  
--with-f77=$FC $prefix_string \  
$etc_string $debugstring
```

However, I would recommend the first workaround. I did not try the second option.

Kind regards,  
Martin

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Subject: Re: Install error external packages "apr 13" and Kubuntu 14.04

Posted by [Florian Uhlig](#) on Wed, 30 Apr 2014 11:38:32 GMT

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Hi Martin,

there is a new patch release apr13p1 available which fixes the issue. In this patch the "--enable-builtin-freetype" option is used when building root. This is a way to fix the issue for

everybody, since for the other solution one needs root privileges.

Ciao

Florian

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