

QGIS Application - Bug report #2021

[FreeBSD] problem compiling Qgis with grass. Kpty.c qtermwidget

2009-10-17 09:40 AM - slash -

Status:	Closed	
Priority:	Low	
Assignee:	nobody -	
Category:	Build/Install	
Affected QGIS version:		Regression?: No
Operating System:	FreeBSD	Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed
Crashes QGIS or corrupts data:		Copied to github as #: 12081
Description		
<p>On [[FreeBSD]] 8.0RC1 (i don't know for older version) you can't compile Qgis with Grass option. There is a problem with kpty.c file in qtermwidget</p> <p>[77%] Building CXX object src/plugins/grass/CMakeFiles/grassplugin.dir/qtermwidget/kpty.o /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp: In member function 'void KPTY::login(const char*, const char*)':</p> <p>/usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:489: error: 'utmpname' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:490: error: 'setutent' was not declared in this scope</p> <p>/usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:491: error: 'pututline' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:492: error: 'endutent' was not declared in this scope</p> <p>/usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:493: error: 'updwtmp' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp: In member function 'void KPTY::logout()':</p> <p>/usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:539: error: 'utmpname' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:540: error: 'setutent' was not declared in this scope</p> <p>/usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:541: error: 'getutline' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:558: error: 'pututline' was not declared in this scope /usr/ports/graphics/qgis/work/qgis-1.3.0/src/plugins/grass/qtermwidget/kpty.cpp:560: error: 'endutent' was not declared in this scope</p> <p>- Error code 1</p> <p>Stop in /usr/ports/graphics/qgis/work/qgis-1.3.0.</p> <p>- Error code 1</p> <p>Stop in /usr/ports/graphics/qgis/work/qgis-1.3.0.</p> <p>- Error code 1</p> <p>Stop in /usr/ports/graphics/qgis/work/qgis-1.3.0.</p> <p>- Error code 1</p> <p>Stop in /usr/ports/graphics/qgis.</p> <p>- Error code 1</p> <p>Stop in /usr/ports/graphics/qgis.</p>		

History

#1 - 2009-10-21 10:34 AM - slash -

I have found the problem by myself (and maybe the solution).

The file kpty.cpp in /qgis/src/plugins/grass/qtermwidget make a call to functions in utmp.h header of the GLIBC. setutent updwtmp & co...

In fact we don't have this functions in [[FreeBSD]] Headers.

So the solution is to copy/paste the code source of this functions in the kpty file like in the attached file.

It's not beautiful but it works. I have can build install and use grass plugins without crash with this solutions.

Regards.

#2 - 2010-06-12 02:16 AM - Paolo Cavallini

Still true fro current trunk?

#3 - 2010-08-24 10:22 AM - slash -

Sorry, i was away from qgis for a time.

The bug is still true in the current trunk.

The solutions is the same :

QGIS use some functions of the Glibc. If you see the [man page](#) of getutent & the others you have this disclaimer :

Portability Note: Although many operating systems provide a subset of these functions, they are not standardized. There are often subtle differences in the return types, and there are considerable differences between the various definitions of struct utmp. When programming for the GNU system, it is probably best to stick with the functions described in this section. If however, **you want your program to be portable**, consider using the XPG functions described in **XPG Functions, or take a look at the BSD compatible functions in Logging In and Out**.

You can also include the functions in other source code like this change i've made to compile with grass plugins on my [[FreeBSD]] :

Change in src/plugins/grass/qtermwidget/kpty.cpp :

```
--- src/plugins/grass/qtermwidget/kpty.cpp.orig 2010-08-24 18:47:22.000000000 _  
++ src/plugins/grass/qtermwidget/kpty.cpp      2010-08-24 18:48:06.000000000 +0  
@ -24,6 +24,10 @  
    #include "kpty_p.h"
```

```
#if defined(+FreeBSD)  
#include "kpty_hack_for_bsd"  
#endif
```

```
#ifdef +sqi  
#define +svr4  
#endif
```

New file in src/plugins/grass/qtermwidget/
kpty_hack_for_bsd.h
kpty_hack_for_bsd.cpp

(this files includes functions getutent & other).

This solutions is sometimes used on BSD.

Also, i have add a path in the [[FindGRASS]].cmake.

In the attach file (freebsd_patch_qgis.tar.gz) you have :

The diff file for [[FindGRASS]].cmake with the 2 files (original and modified)

The diff file for src/plugins/grass/qtermwidget/kpty.cpp with the 2 files (original and modified)

The new files in src/plugins/grass/qtermwidget/.

#4 - 2010-08-24 05:09 PM - Jürgen Fischer

- Resolution set to fixed
- Status changed from Open to Closed

should be fixed with commit:dd614ec7 (SVN r14147).

Files			
kpty.cpp	17.7 KB	2009-10-21	slash -
freebsd_patch_qgis.tar.gz	7.56 KB	2010-08-24	slash -