QGIS Application - Feature request #2785
[Cmake] FindGRASS.cmake issue

2010-06-04 11:03 AM - Nikos Ves

Status:	Closed			
Priority:	Low			
Assignee:	nobody -			
Category:	Build/Install			
Pull Request or Patch supplied:			**Resolution:**	invalid
Easy fix?:	No		**Copied to github as #:**	12845

Description

when point qgis at grass lib

    CMake Error at src/plugins/grass/CMakeLists.txt:8 (MESSAGE):
     Your GRASS version is not supported
     (/home/nikos/src/qgis-src/src/plugins/grass/modules-7.0 is not found).

which I'm pretty sure i dont have grass7 installed. Maybe grass6rc6 reports itself as 7?

Grass 6RC6 can be downloaded either from grass site or from ubuntugis ppa.

t

The problem must be in <qgis-source>/src/pluging/grass/CMakeLists.txt

    IF (GRASS_NUM_VERSION LESS 60300)
      SET (GRASS_MODULES_DIR "modules-6.3")
    ELSE (GRASS_NUM_VERSION LESS 60300)
      SET (GRASS_MODULES_DIR "modules-${GRASS_MAJOR_VERSION}.${GRASS_MINOR_VERSION}")
    ENDIF (GRASS_NUM_VERSION LESS 60300)

Im not pretending that i know anything ccmake files before but the if looks a bit off

History

#1 - 2010-06-04 11:46 AM - Jürgen Fischer

QGIS builds fine with GRASS 6.4.0rc6 here. Which GRASS version is found? Please quote the line from your build:

    ...
    -- Found GRASS: /usr/lib/grass64 (6.4.0+42329)
    ...

#2 - 2010-06-04 04:51 PM - Nikos Ves

grass -v

    GRASS GIS 6.4.0RC6

#3 - 2010-06-04 07:04 PM - Jürgen Fischer

Replying to [comment:2 vesnikos]:

> *grass -v*

>

>> GRASS GIS 6.4.0RC6

Sorry, I meant the output from cmake.

#4 - 2010-06-05 02:33 AM - Paolo Cavallini

I confirm, it builds fine here, on two different architectures. Perhaps a leftover from another previous install?
Can you please check on anther similar machine?

#5 - 2010-06-06 02:53 AM - Nikos Ves

I think I found the problem:
ccmake cache doesn't refresh, even if you change grass_prefix when you run ccmake to parse its variables.

It found a previous installation of grass 7 (which was in userland)

to recap: ccmake grass_prefix was pointing explicitly in /usr/lib/grass64
and ccmake (from a previous install, by locate? - i couldn't confirm this) was pointing in ~/grass7-src

#6 - 2010-06-06 03:07 AM - Nikos Ves

more info:

findGRASS.cmake tries to find version.h in folder <grass-src>/include

but for grass6rc6 version.h is present as VERSION (
http://trac.osgeo.org/grass/browser/grass/tags/release_20100320_grass_6_4_0RC6/include/VERSION)

there isn't a version.h file (or at least I can't find one)

#7 - 2010-06-06 04:41 AM - Nikos Ves

more additional info:

from http://www.mail-archive.com/cmake@cmake.org/msg07252.html

> # ^ and $ appear to be non-functional in practice. This makes it
> # impossible to code a non-trivial regex in CMake script. This in turn
> # forces the user to find or install other tools that can do so, rather

than keeping their scripting logic self-contained in CMake.
#
^ and $ work work with respect to an entire <input> to STRING().
That is to say, an <input> is treated as one line. The <input>
does not preserve newlines, even if it is read from a multi-line file.
The following code snippet demonstrates that ^ and $ will only
match at the beginning and end of a file, when the file is read in as
an <input> string.

one that was suggested was

    STRING(REGEX REPLACE "\
    ?\
    " ";" ENT "${input}")
    FOREACH(line ${ENT})
    # do the match on each line

#8 - 2010-06-06 07:51 AM - Jürgen Fischer

Replying to [comment:6 vesnikos]:

> *more info:*
>
> *findGRASS.cmake tries to find version.h in folder <grass-src>/include*
>
> *but for grass6rc6 version.h is present as VERSION (*
> *http://trac.osgeo.org/grass/browser/grass/tags/release_20100320_grass_6_4_0RC6/include/VERSION)*
>
> *there isn't a version.h file (or at least I can't find one)*

#9 - 2010-06-30 12:32 PM - Jürgen Fischer

vesnikos, any news on this?   Looks more like a GRASS installation problem on your end (missing version.h).

#10 - 2010-07-02 03:37 AM - Nikos Ves

- Status changed from Open to Closed

- Resolution set to invalid

Should have closed that bug ages ago.

?

Problem lies that in clarification in the documentation: Nowhere states that qgis is NOT compatible with grass70 - just says GRASS, no version

⯈

The another issued thats needs confirmation (its been couple of weeks since i've tested it) is that GRASS_PREFIX is not being refreshed if you install another version of grass (maybe grass6RC6, after grass70svn) with the correct path. Not even a conflict error. Maybe if there are more than one grass installations, user should choose manually the path?

⯈

and the third and most major: The grass60RC6 package that comes from ubuntus' ubuntugis/unstable ppa is not compatible with qgis to be build with grass support. I had to compile from source to get grass support.

⯈

Imho findgrass.cmake is a bit hackish, and needs some love to become more robust.
Since qgis comes to be the frontend of grass, its a shame people to stumble in such annoyances

⯈

I'll close the bug, and I hope none took offence in the comments above.

#11 - 2010-07-02 04:33 AM - Jürgen Fischer

Replying to [comment:11 vesnikos]:

> ⯈
> *and the third and most major: The grass60RC6 package that comes from ubuntus' ubuntugis/unstable ppa is not compatible with qgis to be build*
> *with grass support. I had to compile from source to get grass support.*

⯈

Incompatible in which way?

#12 - 2010-07-02 07:40 AM - Nikos Ves

Its been a while, it has something to do with the packages' "include" folder.If i remember correctly the binary package doesn't install the "include" files (where grass' version.h residences) and there isn't a -devel package provided by the ppa.

⍰

hence if you install grass60rc6 from ubunbugis/unstable you're not able to compile qgis with grass support.

⍰

After monday, i can do some tests with a virtual machine and test this, and open a new bug if needed

#13 - 2010-07-02 07:43 AM - Giovanni Manghi

> ⍰
>
> *hence if you install grass60rc6 from ubunbugis/unstable you're not able to compile qgis with grass support.*

⍰

I can compile every day qgis with GRASS support using GRASS installed with the ubuntugis-unstable repository.

#14 - 2010-07-02 08:21 AM - Nikos Ves

Replying to [comment:14 lutra]:

> ⍰
>
> *I can compile every day qgis with GRASS support using GRASS installed with the ubuntugis-unstable repository.*

⍰

where does your grass_prefix points at, when running ccmake ?

#15 - 2010-07-02 01:18 PM - Jürgen Fischer

Replying to [comment:15 vesnikos]:

☐
Replying to [comment:14 lutra]:

☐
I can compile every day qgis with GRASS support using GRASS installed with the ubuntugis-unstable repository.

☐
where does your grass_prefix points at, when running ccmake ?