Subject: [Bug+Patch] when there is a space in Upp path
Posted by omari on Fri, 17 Mar 2017 15:55:32 GMT
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Hi,
I have to install upp in Program Files, so I found the following two bug:

1: gdb does not find the exe file

solution: add quote before and after the path of the exe file
in ide\Debuggers\Gdb.cpp line 338
dbg = host->StartProcess(GdbCommand(console) + "\"" + GetHostPath(exefile) + "\"");

2: windres does not find the preprocessor
in it's internal, windres use it's path (without quotes) as base in order to find the propressor.
solution: call windres using it's ShortPath:
in ide\Builders\GccBuilder.cpp, line 217:
exec << GetHostPathShort(FindInDirs(((LocalHost*)host)->exedirs, "windres.exe")) << " -i " << GetHostPathQ(fn);

instead of:
exec << "windres -i " << GetHostPathQ(fn);

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sat, 18 Mar 2017 19:54:02 GMT
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Hello,

The problems you are talking about definitely needs further processing. So, I created following redmine ticket #1661.

Please keep in mind other platforms like POSIX. Does the double quote work there? Do you test on POSIX?

Can you explain for me what following lines do?

GetHostPathShort(FindInDirs(((LocalHost*)host)->exedirs, "windres.exe"))

Sincerely and thanks,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Sun, 19 Mar 2017 09:14:18 GMT
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Hi,

Tested on Linux Mint / GCC :
gdb bug is there too, and the quote fix it.
I think this fix this bug too.

windres bug is PLATFORM_WIN specific as .rc file is.

Quote:
Can you explain for me what following lines do?

GetHostPathShort(FindInDirs(((LocalHost*)host)->exedirs, "windres.exe"))

FindInDirs(((LocalHost*)host)->exedirs, "windres.exe")
localhost.exedir is a vector of the PATH directorys
FindInDirs find "windres.exe" in this list of directory, and return the full path, for example :"c:\\program files\\upp\\bin\\mingw\\bin\\windres.exe"

GetHostPathShort convert this to: "c:\\program~1\\upp\\bin\\mingw\\bin\\windres.exe"

in the current version, FindInDirs(..) is called inside CppBuilder::Run() { LocalHost::Run() { FindCommand(const Vector<String>& exedir, const String& mdline)}}

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sun, 19 Mar 2017 20:06:48 GMT
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Hello,

The first part is actually on trunk. You can see changes made by me https://github.com/ultimatepp/mirror/commit/1a22ae0c9fbc0879 715e1472c4eb2cf92c10ab80. This is a little bit different, but solve exactly the same issue in other way. The funny thing is that TheIDE crashes when the output dir contains space

The second point is not process yet. I will need to have time to check and reproduce the error on

my own. This should happens soon - I hope in next weekend.

Sincerely and thanks for cooperating,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Sun, 19 Mar 2017 22:04:58 GMT
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Thanks Klugier,

The first part is enough for me, the second part is needed to compile theide only.

i can now use the latest theide without the need of compilation.

the second point is a bug in windres.exe (reported on bugzilla)

the solution proposed is a work around that.

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sun, 19 Mar 2017 22:22:07 GMT
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Hello,

It seems that the second scenario is not critical like the first one and it seems more like problem of third party software. We should wait for them when they will repair it on their side. What do you think - can I close redmine ticket?

And one more important question - when they fix their error - will our workaround work also? This is important information, because this allow us to have more stable code.

You said that I can reproduce this by building TheIDE - what should I do? Should I build TheIDE with MinGW from program files?

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Mon, 20 Mar 2017 22:33:26 GMT
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Hello,
exemple steps to reproduce the probleme:

1 - download the nightly builds for Windows with MinGW-w64 toolchain
2 - extract it in "c:\u pp\"
3 - run "c:\u pp\theide.exe" and compile examples/GeoFun

i think, the workaround will work after windres bug fix.

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Wed, 22 Mar 2017 21:35:48 GMT
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Hello,

I tested the second part yesterday, but it seem not to work with about example. Probably my winres.exe is not in the vector. I will proceed it later - the thing is worth fixing and let you know. Let's keep in touch to fix that problem.

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Fri, 24 Mar 2017 22:46:01 GMT
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Hi,

in the proposed patch:

GetHostPathShort(FindInDirs(((LocalHost*)host)->exedirs, "windres.exe"))

the cast (LocalHost*)host, does not work properly.
i have tested with LocalHost*h = dynamic_cast<LocalHost*>(host)
host is not NULL, but after the execution of this line, h is equal to NULL !

to avoid this, we can extract the PATH from Host.GetEnvironnement() instead of Localhost.exedirs

here the new patch :

```
if(rc) {
```

```
 String windres = "windres";
String env = host->GetEnvironment();
const char* path = (const char*) env.begin();
while(*path)
{
 if(path[0] == 'P' && path[1] == 'A' && path[2] == 'T' && path[3] == 'H' && path[4] == '=')
 {
  path+=5;
  Vector<String> dirs = Split(path, ";") ;
  String fullpath = FindInDirs(dirs, "windres.exe");
  windres = GetHostPathShort( fullpath);
  break;
 }

 while(*path)++path;
 ++path;
}

String exec;
exec << windres << " -i " << GetHostPathQ(fn);
....
```

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sat, 25 Mar 2017 22:16:16 GMT
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Hello,

So, this is my path after executing your patch:

D:\u pp\bin/mingw64/64/bin\windres.exe -i "D:\u pp\examples\GeoFun\icon.rc"

Printed with:

Cout() << exec;

The GeoFun still cannot be compiled with your patch when the directory contains space. I think the previous patch do exactly the same (The both paths are equal). Anyway, I will introduced patch that allows you to obtain on host all executable dirs via virtual method.

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Sat, 25 Mar 2017 22:55:09 GMT
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Hi,

the call to
windres = GetHostPathShort(fullpath);
is supposed to convert
C:\u pp\bin/mingw64/64/bin\windres.exe
to
C:\UPP~1\bin/mingw64/64/bin\windres.exe

and it work like that for me.

can you look inside GetHostPathShort (breakpoint for example) and verify why it fail ?

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sat, 25 Mar 2017 23:29:59 GMT
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Hello,

It seems that the function returns exactly the same string over and over again. So, the conversion to short path never happens. As documentation said:
Quote:
"If the specified path is already in its short form and conversion is not needed, the function simply copies the specified path to the buffer specified by the lpszShortPath parameter."

What is your operating system? My is Windows 10 Pro x86_64.

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Sat, 25 Mar 2017 23:53:49 GMT
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My is Win 7 pro 64.

Subject: Re: [Bug+Patch] when there is a space in Upp path

Posted by omari on Sun, 26 Mar 2017 10:54:14 GMT
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Hello,

i noticed that you corriged a bug by replacing :

#ifdef PLATFORM_WIN32

by

#ifdefied PLATFORM_WIN32 || PLATFORM_WIN64

Is PLATFORM_WIN32 defined when the OS is Windows 10?

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sun, 26 Mar 2017 12:04:36 GMT
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Hello,

I changed this already and it doesn't help. Yes, PLATFORM_WIN32 is define on 64 bit system and on Windows 10 too.

Can we make something that will not require GetHostPathShort()? For example escaping dir with space etc.

Update:
Seems that when I copied the folder to c:\\ drive GetHostPathShort() is executed correctly. But, this is not solution that making us happy. We need to have bulletproof solution. And the output seems like this:

Final: C:\UPP~1\bin/mingw64/64/bin\windres.exe -i "D:\u pp\examples\GeoFun\icon.rc" -o "D:/u pp/out/examples/GeoFun/MINGWx64.Debug.Debug_Full.Gui.Main.Mt.Noblitz\icon$rc.o" --include-dir="D:\u pp/examples" --include-dir="D:\u pp/uppsrc" --include-dir="C:\UPP~1\bin/mingw64/64/X86_64~1/include" --include-dir="C:\UPP~1\bin/mingw64/64/opt/include" --include-dir="D:/u pp/out/examples/GeoFun/MINGWx64.Debug.Debug_Full.Gui.Main.Mt.Noblitz" -DflagGUI -DflagMT -DflagMAIN -DflagGCC -DflagDEBUG -DflagDEBUG_FULL -DflagWIN32 -D_DEBUG

OK, I seem the problem the assemblies paths are copied from d:\\ drive. I will change and let you know.

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by Klugier on Sun, 26 Mar 2017 13:35:41 GMT
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Hello,

After googling I find that your partition needs to support something called "8.3 short file name". This can be done through registry. More information can be found on following page: http://omtool.com/documentation/HPCR/v1.2.0/ServerHelp/Enabl ing_8.3_name_creation.htm. It seems that "C" drive supports it by default.

UPDATE:
Patch on trunk: https://github.com/ultimatepp/mirror/commit/b931d46746ac4a77d1201053e1d1ece388f05d84. Can you check this implementation?

Sincerely,
Klugier

Subject: Re: [Bug+Patch] when there is a space in Upp path
Posted by omari on Sun, 26 Mar 2017 21:22:16 GMT
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It work fine,

Thenks Klugier.