Subject: GetSmartTextSize() fails with QTF text
Posted by Didier on Fri, 07 Feb 2025 23:12:57 GMT
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Hello,

While investigating a bug in GraphCtrlI just found a bug in GetSmartTextSize()

The following code:

```
String s = "\1[1= 13h27:42&][1= 9 Jan&][1*= 0]";
Size sz = GetSmartTextSize(s);
RDUMP(s);
RDUMP(sz);

s = "[1= 13h27:42&][1= 9 Jan&][1*= 0]";
sz = GetSmartTextSize(s);
RDUMP(s);
RDUMP(sz);
```

Displays:

```
s =  [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (1073741850, 54)    ===> With QTF text: X size is not correct

s = [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (191, 18)
```

Note: In QTF designer, the string is displayed correctly

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Oblivion on Sun, 09 Feb 2025 22:17:58 GMT
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Hello Didier,

Have you tried to rebuild all and clear the Upp's cache. Sometimes that can be the cause.
With the U++ nightly (on Linux) I get:

```
s =  [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (46, 48)
s = [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (186, 17)
```

Best regards,
Oblivion

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by koldo on Mon, 10 Feb 2025 06:53:24 GMT
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Hello Didier

Running it in Windows11 with CLANG I get this in the .log:

s = [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (52, 45)
s = [1= 13h27:42&][1= 9 Jan&][1*= 0]
sz = (178, 15)

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Wed, 12 Feb 2025 20:16:08 GMT
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Hello Koldo,

Thank you for you're feedback.
I will try erasing cache.

Although in all the years working with Upp, I only encountered this issue recently.
Is this du to Clang or a Bug in Upp Builder: sometimes modified files are not detected correctly and build doesn't get correctly refreshed

Since this 'clean cache problem' seems to be more present, maybe there should be an "Erase cache" button in TheIde ?

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Thu, 20 Feb 2025 08:11:10 GMT
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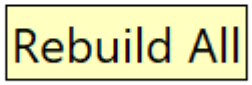
Although we definitely should track these dependency issues down.

File Attachments
1) Clipboard_02-20-2025_01.png, downloaded 913 times





Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Thu, 20 Feb 2025 21:12:10 GMT
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Hello Mirek,

The --rebuild all-- does not fix the issue (I use it very often when I have a doubt or as a habit)
Ide used to track dependencies very well and I was very confident about it. But since some time now (maybe a year or more) I regularly stumble on this problem (On linux AND on windows). Even some collegues stumbled on it : the problem was comming from the cache.

I have to admit that I do not have a clear knowledge of where all the meta-data is saved but there should at least be a paragraph that talks about it (excuse me if there is one that I have no knowledge about)

I think this problem should be taken very seriously as it could push away Upp users very quickly if they have no confidence on the build system (I have already pushed away some work because I am getting tired of tracking down build problems that happen without any obvious reason)

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Oblivion on Thu, 20 Feb 2025 21:56:29 GMT
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Quote:Ide used to track dependencies very well and I was very confident about it. But since some time now (maybe a year or more) I regularly stumble on this problem (On linux AND on windows). Even some collegues stumbled on it : the problem was comming from the cache.

I can confirm this from my experience. For some time (I don't know when it started exactly) I am getting build system cache issues that cause apps to behave erratically or directly crash.

This is mostly harmless as it is easily noticable when the app stops working and crashes

immediately after start for no apparent reason. However, sometimes it can introduce nasty bugs that gets triggered only when certain action is taken later.

By the way, One very visible cache update issue is with TheIDE's layout editor: Unless I rebuild all, TheIDE does not rebuild the package after I modify the layouts. I am always forced to rebuild all (rebuilding the package doesn't work either).

(This happens on Linux)

Best regards,
Oblivion

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Thu, 20 Feb 2025 22:27:38 GMT
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Didier wrote on Thu, 20 February 2025 22:12Hello Mirek,

The --rebuild all-- does not fix the issue (I use it very often when I have a doubt or as a habit)

OK, so what can be different? (it works just fine for me).

Maybe you can post complete testcase?

Quote:
I think this problem should be taken very seriously as it could push away Upp users very quickly if they have no confidence on the build system (I have already pushed away some work because I am getting tired of tracking down build problems that happen without any obvious reason)

That is strange, I am not having any problems besides after git pull, where it is understandable...

Mirek

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Thu, 20 Feb 2025 22:47:40 GMT
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Oblivion wrote on Thu, 20 February 2025 22:56Quote:Ide used to track dependencies very well and I was very confident about it. But since some time now (maybe a year or more) I regularly stumble on this problem (On linux AND on windows).

Even some collegues stumbled on it : the problem was comming from the cache.

I can confirm this from my experience. For some time (I don't know when it started exactly) I am getting build system cache issues that cause apps to behave erratically or directly crash.

This is mostly harmless as it is easily noticable when the app stops working and crashes immediately after start for no apparent reason. However, sometimes it can introduce nasty bugs that gets triggered only when certain action is taken later.

By the way, One very visible cache update issue is with TheIDE's layout editor: Unless I rebuild all, TheIDE does not rebuild the package after I modify the layouts. I am always forced to rebuild all (rebuilding the package doesn't work either).

(This happens on Linux)
[/quote]

OK, ok. I am not having problems at all; however as layouts are included, it can have something to do with include dependencies and with the way how sources are arranged (and included...).

Perhaps you can produce some package using layout that demonstrates the issue? (Or just tell me if it happens with some example).

There must be something you guys do and I do not...

What do you mean by "cache" BTW? (well, information about files IS cached in PPInfo, I was actually fixing things there this week - can you test with fresh ide?)

Mirek

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Fri, 21 Feb 2025 19:35:06 GMT
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Hello Mirek,

For a test case : impossible, it happens without any obvious reason and sometimes goes away whitout any reason

Quote:What do you mean by "cache" BTWthere is user/.cache directory (not git cache dir) that the Ide uses to store build results

Quote:This is mostly harmless as it is easily noticable when the app stops working and crashes immediately after start for no apparent reason. However, sometimes it can introduce nasty bugs that gets triggered only when certain action is taken later A crash is very visible, but when the build problem doesn't imply (quick) application crash then you always have a question in the back

of you're head "Is my application correctly build ??"

A few weeks ago I had a case where it was impossible to build (rebuild all didn't work, nor clear package), modifying .cpp or .h didn't work either, so I tried to:
 Stop Ide, erase some config files, cache dir, ... everything I could find Restart Ide and try to build (so that Ide would build new files) If not successful build, go back to (1) to try to pin down what was causing the problem
I never found the problem ==> I solved the problem by doing a fresh install of all Upp

My guess is that:
* I missed some files used by Ide (Where could they be ??)
* The problem comes from the way I update Ide:
...* Update upp sources from git (latest version) (maybe the git versions I get weren't stable enough ??)
...* build Ide
...* replace current Ide bin file (sometimes changing ide bin name)
...==> maybe old files are not read correctly by by new Ide (or old files incompatible with new Ide) ?

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Thu, 27 Feb 2025 22:44:19 GMT
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Hello Mirek,

I think I found something interesting: when compiling in "verbose", all paths to UppHub packages get included although I have only included one in my application package dependencies.

So if I have same packages present in UppHub and in another nest (both nests present in nest config paths) ... things will probably get nasty

---

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Thu, 27 Feb 2025 23:43:32 GMT
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Didier wrote on Thu, 27 February 2025 23:44Hello Mirek,

I think I found something interesting: when compiling in "verbose", all paths to UppHub packages get included although I have only included one in my application package dependencies.

So if I have same packages present in UppHub and in another nest (both nests present in nest

config paths) ... things will probably get nasty

Ah, that is actually by design. Seems the design might be wrong...

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Fri, 28 Feb 2025 11:51:15 GMT
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Didier wrote on Thu, 27 February 2025 23:44Hello Mirek,

I think I found something interesting: when compiling in "verbose", all paths to UppHub packages get included although I have only included one in my application package dependencies.

So if I have same packages present in UppHub and in another nest (both nests present in nest config paths) ... things will probably get nasty

Well, while I doubt this really can cause problems (or fix your problems), but just to be sure I have now tried to fix the builder so that only nests with packages that are used are in include path now. Please test.

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Fri, 28 Feb 2025 22:54:48 GMT
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Thank you Mirek,
I will update my Ide and keep an eye on the build problem

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Sun, 02 Mar 2025 14:04:24 GMT
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Hello Mirek,

I just updated my Ide and UppHub packages compilation is now broken (not my packages specifically but all packages).

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Sun, 02 Mar 2025 17:50:07 GMT
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The include paths for UppHub packages lacks the Package directory: it only points the UppHub nest directory

---

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Mon, 03 Mar 2025 07:42:07 GMT
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Didier wrote on Sun, 02 March 2025 18:50The include paths for UppHub packages lacks the Package directory: it only points the UppHub nest directory

It was always this way. That is why we

#include <CtrlLib/CtrlLib.h>

and not just

#include <CtrlLib.h>

Doing ontherwise would cause a lot of troubles...

The change I have done is to remove unused nests.

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Mon, 03 Mar 2025 21:57:44 GMT
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Hello Mirek,

I wasn't clear enough, now you have to :
#include <Scatter/ScatterCtrl/ScatterCtrl.h>

Sorry Koldo for taking you're package as example, but I had to take someone elses package

The following Upphub applications do not compile any more because of the same type of include path error :
 - Bobcat
 - SatterCtrl_demo
 - StackCtrlExample   (UppHub/StackCtrl/examples/StackCtrlExample/main.cpp:1:10: fatal error: 'StackCtrl/StackCtrl.h' file not found)

I stopped testing other UppHub packages

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Tue, 04 Mar 2025 06:53:24 GMT
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Didier wrote on Mon, 03 March 2025 22:57Hello Mirek,

I wasn't clear enough, now you have to :
#include <Scatter/ScatterCtrl/ScatterCtrl.h>

Sorry Koldo for taking you're package as example, but I had to take someone elses package

The following Upphub applications do not compile any more because of the same type of include path error :
 - Bobcat
 - SatterCtrl_demo
 - StackCtrlExample   (UppHub/StackCtrl/examples/StackCtrlExample/main.cpp:1:10: fatal error: 'StackCtrl/StackCtrl.h' file not found)

I stopped testing other UppHub packages

I am not sure what went wrong in your case, but further testing proved that the change was a bad idea - some packages seems to just include stuff from elsewhere without actually adding it to the project (e.g. Scatter includes Eigen without using it). So reverted...

Which means it will be adding all paths to all hub nests again - and it is as it should be.

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by koldo on Tue, 04 Mar 2025 07:04:09 GMT
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No problem, but please remember that ScatterDraw do include Eigen
My unittest is stopped for some days for maintenance. After that I will test if the include have to be changed.

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Tue, 04 Mar 2025 07:05:14 GMT
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Didier wrote on Thu, 27 February 2025 23:44Hello Mirek,

I think I found something interesting: when compiling in "verbose", all paths to UppHub packages get included although I have only included one in my application package dependencies.

So if I have same packages present in UppHub and in another nest (both nests present in nest config paths) ... things will probably get nasty

OK, so let's analyse this:

"regular" nests includes should always precede hub nests (unless the main package is from the hub, e.g. example package, then single hub nest can be before regular nest). At the same time, when looking for package, nests are searched in the same order as is the order of nest includes. I would argue that this leaves little place for things to get nasty...

Possible problems I have found: Internal includes are added for all packages (e.g. plugin/sundials). That is probably unnecessary, but I am sort of afraid to fix that. Build methods includes are added at the end of list. That IMO is OK....

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by koldo on Tue, 04 Mar 2025 08:51:49 GMT
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When including external code, internal includes are some times necessary. If not, it would be necessary to change the includes of the external code by hand. I prefer to maintain the original code untouched.

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Tue, 04 Mar 2025 09:15:52 GMT
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koldo wrote on Tue, 04 March 2025 09:51When including external code, internal includes are some times necessary. If not, it would be necessary to change the includes of the external code by hand. I prefer to maintain the original code untouched.

I agree...

Just investigating all possible loopholes. But my guts feeling is that possible problems with builder ignoring changes are not include path related...

Would be nice to have more info...

Mirek

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by mirek on Fri, 14 Mar 2025 08:19:58 GMT
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mirek wrote on Tue, 04 March 2025 10:15koldo wrote on Tue, 04 March 2025 09:51When including external code, internal includes are some times necessary. If not, it would be necessary to change the includes of the external code by hand. I prefer to maintain the original code untouched.

I agree...

Just investigating all possible loopholes. But my guts feeling is that possible problems with builder ignoring changes are not include path related...

Would be nice to have more info...

Mirek

Hey, so I have found and fixed one problem with dependencies:

In Win32, include file names can have different case from actual files (e.g. Header.h and #include "header.h"). There is a caching mechanism for filetimes to speed things up that was not ready to cope with this.

Now fixed: https://github.com/ultimatepp/ultimatepp/commit/4315ff493bc2 94e2dc2707062be95b998376768f

Can this be the problem?

Subject: Re: GetSmartTextSize() fails with QTF text
Posted by Didier on Sun, 16 Mar 2025 17:24:02 GMT
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Quote:Hey, so I have found and fixed one problem with dependencies:

In Win32, include file names can have different case from actual files (e.g. Header.h and #include "header.h"). There is a caching mechanism for filetimes to speed things up that was not ready to cope with this.

Now fixed: https://github.com/ultimatepp/ultimatepp/commit/4315ff493bc2 94e2dc2707062be95b998376768f

Can this be the problem?

Sorry for not replying faster, I didn't have much free time lately

Thanks, I will, update my windows version
