Subject: CreateSymbolicLink doesn't compile using MinGW
Posted by _dka_ on Tue, 26 Dec 2017 10:53:55 GMT
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Hello all,

Sorry, i use google translator.
I used upp-mingw (last nightly builds and stable upp-mingw-11540).
I want to create a symbolic link to a folder.
I tried to create console applications in projects of different types.

My source (Core console project):

#include <Core/Core.h>
using namespace Upp;
CONSOLE_APP_MAIN
{
 CreateSymbolicLink("","",1);
}

Compiler error:

MyApps_MkLinks.cpp (7): error: 'CreateSymbolicLink' was not declared in this scope
 (): CreateSymbolicLink("","",1);
MyApps_MkLinks.cpp (7): note: suggested alternative: 'CreateHardLink'
 (): CreateSymbolicLink("","",1);
 (): CreateHardLink

So far, I've solved this problem by adding lines from the winbase.h from mingw:

#include <Core/Core.h>
using namespace Upp;

#define SYMBOLIC_LINK_FLAG_DIRECTORY (0x1)
WINBASEAPI BOOLEAN APIENTRY CreateSymbolicLinkA (LPCSTR lpSymlinkFileName,
LPCSTR lpTargetFileName, DWORD dwFlags);
WINBASEAPI BOOLEAN APIENTRY CreateSymbolicLinkW (LPCWSTR lpSymlinkFileName,
LPCWSTR lpTargetFileName, DWORD dwFlags);
#define CreateSymbolicLink __MINGW_NAME_AW(CreateSymbolicLink)

CONSOLE_APP_MAIN
{
 CreateSymbolicLink("","",1);
}

but now there is a link error:

 (): Linking has failed

(): MyApps_MkLinks/MINGW.Debug.Debug_Full.Main.Noblitz\MyApps_MkLinks.o: In function
`Z14ConsoleMainFn_
v':
MyApps_MkLinks/MyApps_MkLinks.cpp (40): undefined reference to
`_imp___Z19CreateSymbolicLinkAPKcS0_m@12'
(): collect2.exe: error: ld returned 1 exit status

Build methods settings:

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Subject: Re: CreateSymbolicLink doesn't compile using MinGW
Posted by Klugier on Tue, 26 Dec 2017 16:57:22 GMT
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Hello,

The compilation error occurred, because you are trying to use WinAPI without including header appropriate header. In your case it is winbase.h. Please notice that by including Core.h system header is never inherit. Core library must work in multi-platform environment, so doing such a thing would be bad.

Moreover when you decide to use CreateSymbolicLink your application will not compile on other platforms such as Linux without modification or writing ifdef blocks.

As far as I know U++ doesn't offer support for SymLink, but i might be wrong.

Sincerely,
Klugier

Subject: Re: CreateSymbolicLink doesn't compile using MinGW
Posted by _dka_ on Tue, 26 Dec 2017 17:13:10 GMT
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Thank you)

I found that in the Core.h file winbase.h is included under the condition
#ifdef COMPILER_MSC

```
#include <winbase.h>
```
The question is closed.