Subject: ctrllib.icpp there was errors
Posted by sycam_inc on Thu, 12 Dec 2013 01:06:39 GMT
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i have the MINGW gcc 4.5.1. compiler installed in C:\MINGW and U++ installed in C:\UPP
i am running Microsoft Windows 7 Enterprise edition
when i try to compile anything i get this

----- CtrlLib (GUI GCC DEBUG DEBUG_FULL BLITZ WIN32) (1 / 9)
BLITZ: LabelBase.cpp Button.cpp Switch.cpp EditField.cpp Text.cpp LineEdit.cpp DocEdit.cpp
ScrollBar.cpp HeaderCtrl.cpp ArrayCtrl.cpp MultiButton.cpp
PopupTable.cpp DropList.cpp DropChoice.cpp Static.cpp Splitter.cpp FrameSplitter.cpp
SliderCtrl.cpp ColumnList.cpp Progress.cpp AKeys.cpp RichTextVi
ew.cpp Prompt.cpp Help.cpp DateTimeCtrl.cpp Bar.cpp MenuItem.cpp MenuBar.cpp
ToolButton.cpp ToolBar.cpp ToolTip.cpp StatusBar.cpp TabCtrl.cpp TreeCtr
l.cpp DropTree.cpp DlgColor.cpp ColorPopup.cpp ColorPusher.cpp FileList.cpp FileSel.cpp
FileSelUtil.cpp PrinterJob.cpp Windows.cpp Win32.cpp Gtk.cpp
TrayIconWin32.cpp TrayIconX11.cpp TrayIconGtk.cpp Update.cpp CtrlUtil.cpp LNGCtrl.cpp
Ch.cpp
ChWin32.cpp
ChGtk0.cpp
ChGtk.cpp
CtrlLib.icpp

There were errors. (0:00.10)

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Fri, 13 Dec 2013 12:07:53 GMT
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Hello Mirek

Now it is not possible to compile with MinGW due to a simple problem in parse.cpp function CParser::ReadDouble().

Just adding this before the function solves it:

#if defined(COMPILER_MINGW)
_CRTIMP unsigned int __cdecl __MINGW_NOTHROW _clearfp (void);
#define SW_OVERFLOW 0x00000004
#endif
Added in Redmine here.

Subject: Re: ctrllib.icpp there was errors
Posted by masu on Wed, 18 Dec 2013 14:48:29 GMT
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Hi,

now, with this change, I get the following linker error:

Linking...
c:/programs/upp/out/finesce/Core/MINGW.Alu.Debug.Shared.Standalone\parser.o: In function `ZN3Upp7CParser10ReadDoubleEv':
c:/programs/upp/uppsrc/Core/parser.cpp:245: undefined reference to `Upp::_clearfp()'
c:/programs/upp/uppsrc/Core/parser.cpp:268: undefined reference to `Upp::_clearfp()'
collect2.exe: error: ld returned 1 exit status

There were errors. (0:04.68)

I also tried to put the definitions outside the Upp namespace but still get an undefined reference error.

System: Win7 Enterprise x64, MINGW32, GCC-4.8.1

Regards
Matthias

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Wed, 18 Dec 2013 16:42:45 GMT
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Hello Matthias

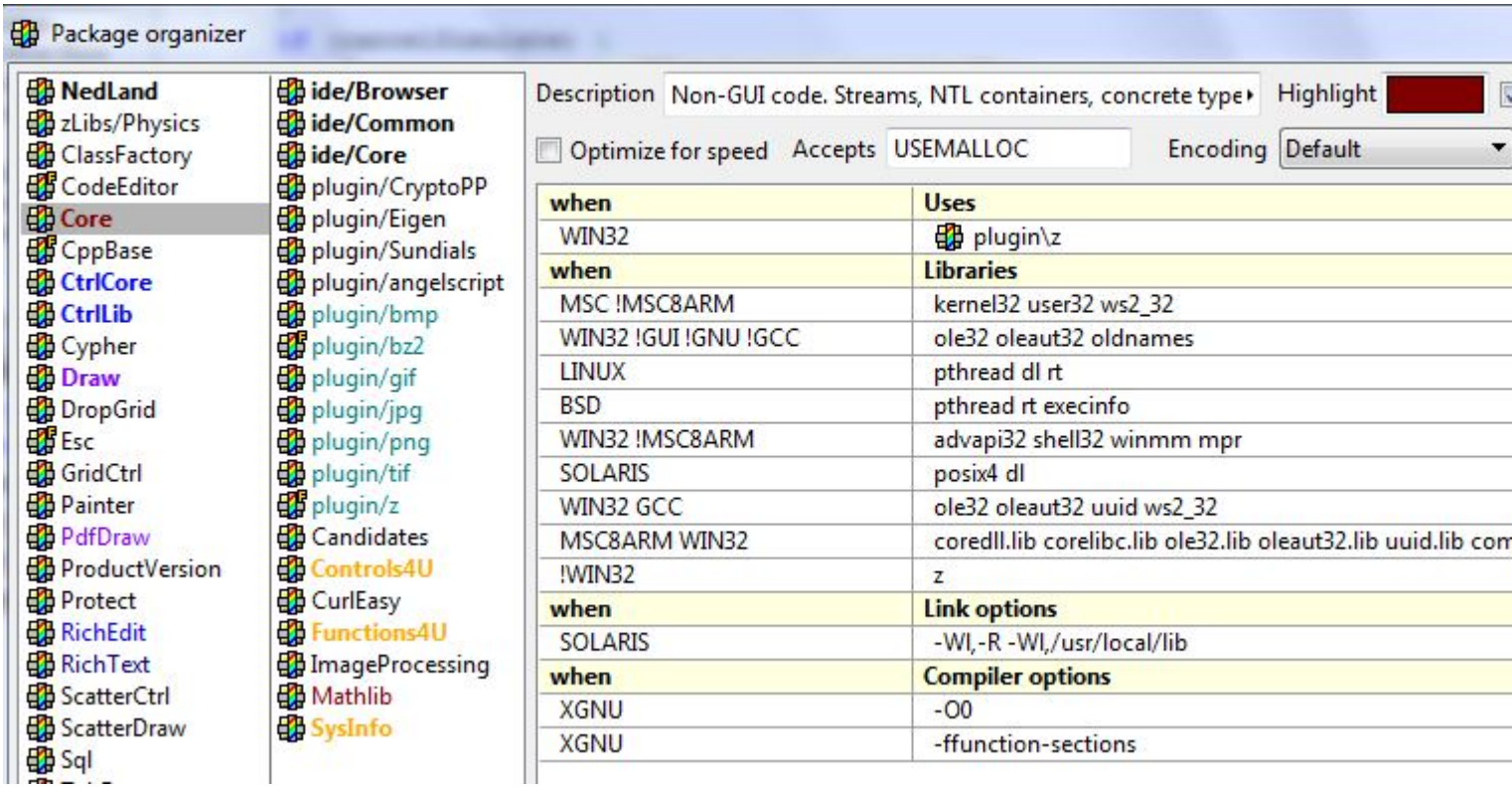
Please brute force check if "_clearfp" string is in some file in your mingw/lib folder, specially in libmsvcrt.a or in libcrtdll.a.

If yes, please try to include that lib in "WIN32 GCC" line here:

by adding for example "msvcrt" or "crtdll" (without the lib in the beginning and the .a at the end).

Please report the results (good or bad) .

File Attachments
1) Cap.JPG, downloaded 1393 times



Subject: Re: ctrllib.icpp there was errors
Posted by masu on Wed, 18 Dec 2013 17:01:39 GMT
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Hi Koldo,

thanks for the quick reply.

I tried this, but with no success.

In the meantime I have installed TDM-GCC-64 and the linking step finishes successfully, but only after I have moved your proposed lines to above the NAMESPACE_UPP declaration in parser.cpp.

The linker gives an error in case your defines are located right before the ReadDouble() method (like it is in the current SVN version). The problem is that the linker tries to resolve Upp::_clearfp() which is not located in any library.

So we should move your proposed defines to the top of parser.cpp.

Regards
Matthias

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Thu, 19 Dec 2013 07:22:36 GMT
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Perfect Matthias

In my case I use TDM-GCC too .

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Sun, 05 Jan 2014 15:04:43 GMT
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Hello Masu

I was worried about this and finally got the source of the problem. See this link:

"Both mingw and gcc have a float.h. The mingw version supplements the gcc version, declaring _clear87 and _control87 among other things. The mingw version has an #include_next which is meant to include the gcc version. This works only when the mingw include dir is first in the header search path, which may not be correct. When the header search list is ordered with the mingw include directory after the gcc's, a common symptom is that _clear87 and _control87 are undeclared."

So there are two solutions:
- To move the #include_next <float.h> from the mingw version into the gcc version of float.h

- To include this code in parse.cpp or directly in Core.h (see the added extern "C"):

```
#if defined(COMPILER_MINGW)
extern "C" {
 _CRTIMP unsigned int __cdecl __MINGW_NOTHROW _clearfp(void);
}
#define SW_OVERFLOW    0x00000004
#endif
```

Please check it and give your opinion. In my case it works with latest MinGW TDM 32 and 64 bits.

Subject: Re: ctrllib.icpp there was errors
Posted by masu on Tue, 07 Jan 2014 13:45:06 GMT
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Hi Koldo,

yes, this works, too.

But I think we can leave out the extern "C" { ... } declarations since __cdecl already instructs the compiler to use C calling conventions (see

http://msdn.microsoft.com/en-us/library/zkwh89ks%28v=vs.80%2 9.aspx).

So the following would be enough to include at the top of parser.cpp or even in Core.h:

```
#if defined(COMPILER_MINGW)
_CRTIMP unsigned int __cdecl __MINGW_NOTHROW _clearfp(void);
#define SW_OVERFLOW    0x00000004
#endif
```

It even builds correctly without __cdecl under my configuration.

Regards
Matthias

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Tue, 07 Jan 2014 15:33:58 GMT
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Hello Masu

not mangle function name.

Please confirm that you can compile and link successfully in both 32 and 64 bits. The linker will require the extern "C" as _clearfp() follows "C" naming.

Subject: Re: ctrllib.icpp there was errors
Posted by masu on Wed, 08 Jan 2014 10:31:59 GMT
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Hi Koldo,

compiling and linking for 64 bit architecture has been successful.
For 32 bit architectures I get another linker error already reported here:

http://www.ultimatepp.org/forum/index.php?t=msg&goto=355
00&&srch=prettyprinters#msg_35500

This seems to be unrelated to our problem discussed here.

In summary, the fix works for both archs 32 and 64 bit.

Regards
Matthias

Subject: Re: ctrllib.icpp there was errors
Posted by mtdew3q on Wed, 08 Jan 2014 12:28:21 GMT
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Hi Koldo-

This patch applied to upp/uppsrc/core/parser.cpp is working on win 7 service pack 1. I didn't need to comment out any lines for it to work. It builds the ctrllib app fine. It works under TDM-gcc compiler suite.

THANKS for the cool patch!

Have a cool weekend,
jim

```
#if defined(COMPILER_MINGW)
extern "C" {
 _CRTIMP unsigned int __cdecl __MINGW_NOTHROW _clearfp(void);
}
#define SW_OVERFLOW    0x00000004
#endif
```

Subject: Re: ctrllib.icpp there was errors
Posted by koldo on Wed, 08 Jan 2014 13:46:05 GMT
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Thank you.