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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)

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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.

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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

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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 libcrt.dll.a.

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

by adding for example "msvcrt" or "crt.dll" (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 633 times

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Subject: Re: ctrl.lib.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

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Subject: Re: ctrl.lib.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 .

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Subject: Re: ctrl.lib.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.

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Subject: Re: `ctrl.lib.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%29.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

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Subject: Re: `ctrl.lib.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.

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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.ultimatecpp.org/forum/index.php?t=msg&goto=35500&&srch=prettyprinters#msg\\_35500](http://www.ultimatecpp.org/forum/index.php?t=msg&goto=35500&&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

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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
```

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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.

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