Subject: [SOLVED] I have a problem linking a LIB
Posted by jerson on Thu, 02 Sep 2010 14:05:13 GMT

I have a third party LIBrary that I want to link to.

One package I made as a test case for this library compiles and links correctly. To make the library link, I had to ADD LIBRARIES.... in the package configuration. That's it. The LIB in question is kept in the package directory just to be sure and I am trying to statically link in MINGW on WIN32.

Doing the same thing in another package just doesn't work. It keeps coming back with linker messages like these

C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0x2f): undefined reference to `DAQm
 xCreateTask'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0x5a): undefined reference to `DAQm
 xCreateDIChan'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0x69): undefined reference to `DAQm
 xStartTask'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0xb6): undefined reference to `DAQm
 xReadDigitalU32'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0xda): undefined reference to `DAQm
 xGetExtendedErrorInfo'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0xe9): undefined reference to `DAQm
 xStopTask'
C:/upp2625/out/JFsrtsystem/MINGW.Blitz.Gui.Main\NIDAQmx.o:NIDAQmx.c:(.text$Ni_ReadAllDI
0+0xf4): undefined reference to `DAQm
 xClearTask'
collect2: ld returned 1 exit status

Now, I know I have done everything that needed to be done, tried everything I know I can try; still no luck. The undefined references are in the NIDAQmx.LIB that I am trying to link to.

Can anyone point me to what may be wrong or where should I look? I am at the end of my rope.

Thank you

Subject: Re: I have a problem linking a LIB

Update on my situation

In the case which compiles and links, I have the API header declared in my main.cpp and the functions which link to the LIB also in the main.cpp in global scope.
Like this

 = snippet from Main.cpp
#include "NIDAQmx.h"


```
/*********************************************************************/
#define DAQmxErrChk(functionCall) if( DAQmxFailed(error=(functionCall)) ) goto Error; else
void NiCheck()
{
  int32       error=0;
  TaskHandle   taskHandle=0;
  uInt32       data;
  char       errBuff[2048]={'\0'};
  int32       read;

  /********************************************/
  // DAQmx Configure Code
  /********************************************/
  DAQmxErrChk (DAQmxCreateTask("",&taskHandle));
  DAQmxErrChk
(DAQmxCreateDIChan(taskHandle,"Dev1/port0","",DAQmx_Val_ChanForAllLines));
```

......

In the same project which compiles and links, if I move the functions which link to the LIB into a separate module/cpp file, put the header for the API in that cpp file again in global scope, I end up with tons of errors.

 = snippet from NiDaq.cpp

#include "NIDAQmx.h"


```
/*********************************************************************/
#define DAQmxErrChk(functionCall) if( DAQmxFailed(error=(functionCall)) ) goto Error; else
void NiCheck()
{
  int32       error=0;
  TaskHandle   taskHandle=0;
  uInt32       data;
```

```
char      errBuff[2048]={'\0'};
int32      read;


/*********************************************/
// DAQmx Configure Code
/*********************************************/
   DAQmxErrChk (DAQmxCreateTask("",&taskHandle));
   DAQmxErrChk
(DAQmxCreateDIChan(taskHandle,"Dev1/port0","",DAQmx_Val_ChanForAllLines));

......
```

I am not calling the NiCheck function in either case. Just ensuring that it links for now. The Package organiser knows about the additional library which is located in the same folder as my sources.

I created another test case in which I tried the same steps as the above 2 cases, but it doesn't work in either case

What am I doing wrong ?

Thanks
ps. I have attached the relevant files for completeness

File Attachments
1) nidaqmx.zip, downloaded 348 times

Subject: Re: I have a problem linking a LIB
Posted by koldo on Thu, 02 Sep 2010 16:19:14 GMT
View Forum Message <> Reply to Message

Hello Jerson

Please include in the .zip all testcase files including .upp.

Subject: Re: I have a problem linking a LIB
Posted by jerson on Thu, 02 Sep 2010 17:09:16 GMT
View Forum Message <> Reply to Message

Hi Koldo

Here are the 2 test cases.

Thanks for your attention and time

Regards

Subject: Re: I have a problem linking a LIB
Posted by koldo on Thu, 02 Sep 2010 20:12:05 GMT

View Forum Message <> Reply to Message

Hello Jerson

In both cases it is necessary to fix file SlideSw.h, line: 82, function SlideSw&SetData(const int Pos, const String Name). The function has to return a value.

In Case 2, in file NIDAQmx.h it is necessary to uncomment typedef signed long int16; and typedef signed long int32;.

With these, both cases link but none run because of exceptions.

Did case 1 run for you?. It seems something related with the libs.

Subject: Re: I have a problem linking a LIB
Posted by jerson on Fri, 03 Sep 2010 00:55:41 GMT

View Forum Message <> Reply to Message

Hi Koldo

Thanks a lot. That line 82 was the culprit. I really wonder why there was no indication to that from the compiler, or did I miss it?

Yes, case 1 really does work with the hardware. It's only after that I started integrating this code into my project and it wouldn't work.

I forgot to add, if I open up the typedefs for int16 and int32, this is what happens

C:\MyApps\JFControlsDemo\NIDAQmx.h:2838: error: expected constructor, destructor, or type conversion before 'DAQmxResetAIACE
 xcitFreq'
C:\MyApps\JFControlsDemo\NIDAQmx.h:2840: error: reference to 'int32' is ambiguous
C:\MyApps\JFControlsDemo\NIDAQmx.h:58: error: candidates are: typedef long int int32
C:\upp2625\uppsrc/Core/Defs.h:225: error: typedef long int Upp::int32

I wonder if you could help me with tips on how you got that line 82 issue as I still have to integrate this code with my main project and it is giving problems. Things like __stdcall__, __attribute__

etc start giving errors in my project whereas the same file(NiDaqmx.h) compiles in the test projects.

Thank you for checking out for me.

Best regards

Subject: Re: I have a problem linking a LIB
Posted by jerson on Fri, 03 Sep 2010 03:14:11 GMT
View Forum Message <> Reply to Message

FOLLOW UP POST

After correcting the problems described by Koldo in the post above, I was able to compile and link the code.

However, I am not sure if I have hit a bug in the IDE.

The code that now compiles gives an output like this

----- JFControls (GUI GCC BLITZ WIN32) (1 / 22)
----- Controls4U (GUI GCC BLITZ WIN32) (2 / 22)
----- CtrlLib (GUI GCC BLITZ WIN32) (3 / 22)
----- Functions4U (GUI GCC BLITZ WIN32) (4 / 22)
----- Painter (GUI GCC BLITZ WIN32) (5 / 22)
----- CtrlCore (GUI GCC BLITZ WIN32) (6 / 22)
----- Draw (GUI GCC BLITZ WIN32) (7 / 22)
----- plugin/bmp (GUI GCC BLITZ WIN32) (8 / 22)
----- RichText (GUI GCC BLITZ WIN32) (9 / 22)
----- Core (GUI GCC BLITZ WIN32) (10 / 22)
----- plugin/z (GUI GCC BLITZ WIN32) (11 / 22)
----- plugin/png (GUI GCC BLITZ WIN32) (12 / 22)
----- plugin/bz2 (GUI GCC BLITZ WIN32) (13 / 22)
----- ide/Browser (GUI GCC BLITZ WIN32) (14 / 22)
----- Web (GUI GCC BLITZ WIN32) (15 / 22)
----- CppBase (GUI GCC BLITZ WIN32) (16 / 22)
----- ide/Common (GUI GCC BLITZ WIN32) (17 / 22)
----- PdfDraw (GUI GCC BLITZ WIN32) (18 / 22)
----- RichEdit (GUI GCC BLITZ WIN32) (19 / 22)
----- ide/Core (GUI GCC BLITZ WIN32) (20 / 22)
----- Esc (GUI GCC BLITZ WIN32) (21 / 22)
----- JFControlsDemo (GUI MAIN GCC BLITZ WIN32) (22 / 22)
BLITZ: main.cpp nidaq.cpp
JFControlsDemo: 2 file(s) built in (0:05.64), 2820 msecs / file, duration = 5703 msecs
Linking...
c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichText/MINGW.Blitz.Gui\EncodeQtf.o: w

arning: duplicate section
`.rdata$_ZTSN3Upp14DeepCopyOptionINS_7RichTxt4ParaENS_10EmptyClassEEE[typeinfo
name for Upp::D
eepCopyOption<Upp::RichTxt::Para, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Stream.o: warning:
 duplicate section `.rdata$_ZTVN3Upp7FileOutE[vtable for Upp::FileOut]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Stream.o: warning:
 duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Util.o: warning: d
uplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Value.o: warning:
 duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different
size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Convert.o: warning
 : duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<U
pp::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Convert.o: warning
 : duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::Strin
g0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning:
 duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5ColorEEE[vtable for
Upp::RichValueRep<Upp::Color>]' has different
 size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning:
 duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5ColorEEE[typeinfo name for
Upp::RichValueRep<Upp::Color>]' has dif
 ferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:

C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning:
 duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5ColorEEE[vtable for
Upp::RawValueRep<Upp::Color>]' has different si
 ze

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning:
 duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different
size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different
size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5Rect_IiEEEE[vtable for
Upp::RichValueRep<Upp::Rect_<int> >]' has
 different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RichValueRep<Upp::Rect_<int> >
 ]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTSN3Upp11RawValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RawValueRep<Upp::Rect_<int> >]'
  has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5Rect_IiEEEE[vtable for
Upp::RawValueRep<Upp::Rect_<int> >]' has di
 fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\t.o: warning: dupl
 icate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Upp::St
 ring, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\t.o: warning: dupl

icate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for Upp::Moveable<Upp::String0, Up
p::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\parser.o: warning:
 duplicate section `.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for Upp::Moveable<Up
p::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\parser.o: warning:
 duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for Upp::Moveable<Upp::String
0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\XML.o: warning: du
plicate section `.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for Upp::Moveable<Upp::
String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\XML.o: warning: du
plicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for Upp::Moveable<Upp::String0,
 Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
 duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5ColorEEE[vtable for Upp::RichValueRep<Upp::Color>]' has different
 size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
 duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5ColorEEE[typeinfo name for Upp::RichValueRep<Upp::Color>]' has di
fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
 duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5ColorEEE[vtable for Upp::RawValueRep<Upp::Color>]' has different s
ize

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different
size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5Rect_IiEEEE[vtable for
Upp::RichValueRep<Upp::Rect_<int> >]' has
 different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RichValueRep<Upp::Rect_<int> >
 ]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp11RawValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RawValueRep<Upp::Rect_<int> >]'
  has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5Rect_IiEEEE[vtable for
Upp::RawValueRep<Upp::Rect_<int> >]' has di
 fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Up
 p::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String
 0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp15Callback1ActionIRNS_6StreamEEE[typeinfo name for
Upp::Callback1Action<Upp::Stream&
 >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Uuid.o: warning: d
uplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\Base.o: war
ning: duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\Base.o: war
ning: duplicate section `.rdata$_ZTVN3Upp7FileOutE[vtable for Upp::FileOut]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
.o: warning: duplicate section `.rdata$_ZTVN3Upp10EditStringE[vtable for Upp::EditString]' has
different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
.o: warning: duplicate section
`.rdata$_ZTSN3Upp9EditValueINS_7WStringENS_13ConvertStringEEE[typeinfo name for
Upp::Edit
Value<Upp::WString, Upp::ConvertString>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
.o: warning: duplicate section
`.rdata$_ZTVN3Upp9EditValueINS_7WStringENS_13ConvertStringEEE[vtable for
Upp::EditValue<U
pp::WString, Upp::ConvertString>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
.o: warning: duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has
different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\File.o: war
ning: duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveab
le<Upp::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\File.o: war
ning: duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for
Upp::Moveable<Upp::S

tring0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\$blitz.o: warn
 ing: duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_4UuidEEE[vtable for
Upp::RichValueRep<Upp::Uuid>]' has differe
 nt size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\$blitz.o: warn
 ing: duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_4UuidEEE[vtable for
Upp::RawValueRep<Upp::Uuid>]' has different
  size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\Find.o: warnin
 g: duplicate section
`.rdata$_ZTSN3Upp20CallbackMethodActionINS_8RichEditEMS1_FvvEEE[typeinfo name for
Upp::CallbackMeth
 odAction<Upp::RichEdit, void (Upp::RichEdit::*)()>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Upp
 ::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String0
 , Upp::EmptyClass>]' has different size

C:\upp2625\out\MINGW.Blitz.Gui\JFControlsDemo.exe (4678144 B) linked in (0:09.20)

OK. (0:17.96)

Now, edit(and undo or simply add a line, remove it) either of the 2 CPP files of the package
directory and save them again. Now hit F7 to compile and you see this

----- JFControls (GUI GCC BLITZ WIN32) (1 / 22)
----- Controls4U (GUI GCC BLITZ WIN32) (2 / 22)

----- CtrlLib (GUI GCC BLITZ WIN32) (3 / 22)
----- Functions4U (GUI GCC BLITZ WIN32) (4 / 22)
----- Painter (GUI GCC BLITZ WIN32) (5 / 22)
----- CtrlCore (GUI GCC BLITZ WIN32) (6 / 22)
----- Draw (GUI GCC BLITZ WIN32) (7 / 22)
----- plugin/bmp (GUI GCC BLITZ WIN32) (8 / 22)
----- RichText (GUI GCC BLITZ WIN32) (9 / 22)
----- Core (GUI GCC BLITZ WIN32) (10 / 22)
----- plugin/z (GUI GCC BLITZ WIN32) (11 / 22)
----- plugin/png (GUI GCC BLITZ WIN32) (12 / 22)
----- plugin/bz2 (GUI GCC BLITZ WIN32) (13 / 22)
----- ide/Browser (GUI GCC BLITZ WIN32) (14 / 22)
----- Web (GUI GCC BLITZ WIN32) (15 / 22)
----- CppBase (GUI GCC BLITZ WIN32) (16 / 22)
----- ide/Common (GUI GCC BLITZ WIN32) (17 / 22)
----- PdfDraw (GUI GCC BLITZ WIN32) (18 / 22)
----- RichEdit (GUI GCC BLITZ WIN32) (19 / 22)
----- ide/Core (GUI GCC BLITZ WIN32) (20 / 22)
----- Esc (GUI GCC BLITZ WIN32) (21 / 22)
----- JFControlsDemo (GUI MAIN GCC BLITZ WIN32) (22 / 22)
main.cpp
JFControlsDemo: 1 file(s) built in (0:06.98), 6985 msecs / file, duration = 7032 msecs
Linking...
C:/upp2625/out/JFControlsDemo/MINGW.Blitz.Gui.Main\nidaq.o:nidaq.cpp:(.bss+0x0): multiple
definition of `Settings'
C:/upp2625/out/JFControlsDemo/MINGW.Blitz.Gui.Main\main.o:main.cpp:(.bss+0x0): first defined
here
c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichText/MINGW.Blitz.Gui\EncodeQtf.o: w
 arning: duplicate section
`.rdata$_ZTSN3Upp14DeepCopyOptionINS_7RichTxt4ParaENS_10EmptyClassEEE[typeinfo
name for Upp::D
 eepCopyOption<Upp::RichTxt::Para, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Stream.o: warning:
  duplicate section `.rdata$_ZTVN3Upp7FileOutE[vtable for Upp::FileOut]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Stream.o: warning:
  duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Util.o: warning: d
 uplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Value.o: warning:

duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Convert.o: warning : duplicate section `.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for Upp::Moveable<U pp::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Convert.o: warning : duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for Upp::Moveable<Upp::Strin g0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning: duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5ColorEEE[vtable for Upp::RichValueRep<Upp::Color>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning: duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5ColorEEE[typeinfo name for Upp::RichValueRep<Upp::Color>]' has dif ferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning: duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5ColorEEE[vtable for Upp::RawValueRep<Upp::Color>]' has different si ze

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Color.o: warning: duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning: duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe: C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning: duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5Rect_IiEEEE[vtable for Upp::RichValueRep<Upp::Rect_<int> >]' has

different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RichValueRep<Upp::Rect_<int> >
 ]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTSN3Upp11RawValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RawValueRep<Upp::Rect_<int> >]'
  has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Gtypes.o: warning:
  duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5Rect_IiEEEE[vtable for
Upp::RawValueRep<Upp::Rect_<int> >]' has di
 fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\t.o: warning: dupl
 icate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Upp::St
 ring, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\t.o: warning: dupl
 icate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String0, Up
 p::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\parser.o: warning:
  duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Up
 p::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\parser.o: warning:
  duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String
 0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\XML.o: warning: du

plicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Upp::
String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\XML.o: warning: du
plicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String0,
Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5ColorEEE[vtable for
Upp::RichValueRep<Upp::Color>]' has different
  size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5ColorEEE[typeinfo name for
Upp::RichValueRep<Upp::Color>]' has di
fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5ColorEEE[vtable for
Upp::RawValueRep<Upp::Color>]' has different s
ize

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different
size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_5Rect_IiEEEE[vtable for
Upp::RichValueRep<Upp::Rect_<int> >]' has
 different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp12RichValueRepINS_5Rect_IiEEEE[typeinfo name for
Upp::RichValueRep<Upp::Rect_<int> >
 ]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:

duplicate section `.rdata$_ZTSN3Upp11RawValueRepINS_5Rect_IiEEEE[typeinfo name for Upp::RawValueRep<Upp::Rect_<int> >]'
  has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_5Rect_IiEEEE[vtable for
Upp::RawValueRep<Upp::Rect_<int> >]' has di
 fferent size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Up
 p::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String
 0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Xmlize.o: warning:
  duplicate section `.rdata$_ZTSN3Upp15Callback1ActionIRNS_6StreamEEE[typeinfo name for
Upp::Callback1Action<Upp::Stream&
 >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Core/MINGW.Blitz.Gui\Uuid.o: warning: d
 uplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\Base.o: war
 ning: duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\Base.o: war
 ning: duplicate section `.rdata$_ZTVN3Upp7FileOutE[vtable for Upp::FileOut]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
 .o: warning: duplicate section `.rdata$_ZTVN3Upp10EditStringE[vtable for Upp::EditString]' has
different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser

.o: warning: duplicate section
`.rdata$_ZTSN3Upp9EditValueINS_7WStringENS_13ConvertStringEEE[typeinfo name for Upp::Edit
 Value<Upp::WString, Upp::ConvertString>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
 .o: warning: duplicate section
`.rdata$_ZTVN3Upp9EditValueINS_7WStringENS_13ConvertStringEEE[vtable for Upp::EditValue<U
 pp::WString, Upp::ConvertString>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\CodeBrowser
 .o: warning: duplicate section `.rdata$_ZTVN3Upp5Value4VoidE[vtable for Upp::Value::Void]' has
different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\File.o: war
 ning: duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for Upp::Moveab
 le<Upp::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/ide/Browser/MINGW.Blitz.Gui\File.o: war
 ning: duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo name for Upp::Moveable<Upp::S
 tring0, Upp::EmptyClass>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\$blitz.o: warn
 ing: duplicate section `.rdata$_ZTVN3Upp12RichValueRepINS_4UuidEEE[vtable for
Upp::RichValueRep<Upp::Uuid>]' has differe
 nt size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\$blitz.o: warn
 ing: duplicate section `.rdata$_ZTVN3Upp11RawValueRepINS_4UuidEEE[vtable for
Upp::RawValueRep<Upp::Uuid>]' has different
 size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/RichEdit/MINGW.Blitz.Gui\Find.o: warnin
 g: duplicate section
`.rdata$_ZTSN3Upp20CallbackMethodActionINS_8RichEditEMS1_FvvEEE[typeinfo name for Upp::CallbackMeth

odAction<Upp::RichEdit, void (Upp::RichEdit::*)()>]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section `.rdata$_ZTVN3Upp6FileInE[vtable for Upp::FileIn]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section
`.rdata$_ZTSN3Upp8MoveableINS_6StringENS_7AStringINS_7String0EEEEE[typeinfo name for
Upp::Moveable<Upp
 ::String, Upp::AString<Upp::String0> >]' has different size

c:/mingw/bin/../lib/gcc/mingw32/4.4.1/../../../../mingw32/bin/ld.exe:
C:/upp2625/out/Esc/MINGW.Blitz.Gui\$blitz.o: warning:
 duplicate section `.rdata$_ZTSN3Upp8MoveableINS_7String0ENS_10EmptyClassEEE[typeinfo
name for Upp::Moveable<Upp::String0
 , Upp::EmptyClass>]' has different size

collect2: ld returned 1 exit status

There were errors. (0:26.81)

Notice the line following this one. That is the only difference.
----- JFControlsDemo (GUI MAIN GCC BLITZ WIN32) (22 / 22)

The way to overcome this problem is to exit the IDE and reload the package. Then you see the
first type of compilation again and everything links fine. Even a clean build (bomb symbol) does
not build cleanly. The only way is to exit and reload the IDE and then build.
FYI: My setup is IDE 2625/WinXP/MinGW32_4.4.1

Is there some kind of control I can have over the build process? Where should I look to
understand this ?

Added: If I see BLITZ : main.cpp nidaq.cpp on one line, all is fine; but, if I see main.cpp on one
line followed by nidaq.cpp on the next line or any other order depending on which file has
changed, the compile process returns errors. I tried to add dependencies of main.cpp on
nidaq.cpp and vice versa - No luck.

Regards

Subject: Re: I have a problem linking a LIB
Posted by koldo on Fri, 03 Sep 2010 06:20:29 GMT
View Forum Message <> Reply to Message

Hello Jerson

Quote:I wonder if you could help me with tips on how you got that line 82 issue as I still have to
integrate this code with my main project and it is giving problems.
I always test new code with MinGW and MSC. Sometimes one gets a thing the other does not. In
this case these errors are given by MSC. Perhaps changing some compiling options, MinGW/Gcc
could do the same.

Subject: Re: I have a problem linking a LIB
Posted by koldo on Fri, 03 Sep 2010 06:28:23 GMT
View Forum Message <> Reply to Message

Hello Jerson

Perhaps I am wrong. Sometimes wrong LIBs give very strange errors.

I advice you to compile your project without the LIB, using dummy versions of the functions called
in the LIB. And see if it now works.

In the same way, you can test with MSC and MinGW in Debug and Optimal modes. Sometimes
Debug mode intermittently hides problems that will appear more usually in optimal mode.

Did case 1 run well with your hardware?

Subject: Re: I have a problem linking a LIB
Posted by jerson on Fri, 03 Sep 2010 06:50:50 GMT
View Forum Message <> Reply to Message

Yes case 1 is just of the functions that works on the hardware. It linked ok when I tested it last
time. I mostly compile in Optimal mode to get small executables. I am not yet familiar with
debugging code in the IDE, so I pass on that.

As far as I can tell, something is confusing the IDE when it is trying to build. Stopping and
restarting the IDE clears that confusion and the project builds. Now that is confusing me   What it
means is if I change even a single line in any of the CPP files, I need to shut the IDE and restart to
get a correct build / diagnosis of the problem

I was looking through the UPP sources, but it is way beyond me at this time. The thing that
bothers me is why it does
BLITZ : main.cpp nidaq.cpp
sometimes and
main.cpp
nidaq.cpp
another time

Between these 2 types of compile, I face the problems. Something is getting disturbed once the file is modified which prevents the BLITZ line from coming. Perhaps that also affects the compile and build process.

I feel encouraged that you are looking at my problem. Thank you

PS: I think I may have an answer. Adding this line to NIDAQ.CPP seems to solve the problem - but I don't know why as yet
#include <JFControls/JFControls.h>
This file contains the following lines

#ifndef _JFControls_JFControls_h_
#define _JFControls_JFControls_h_

#include <CtrlLib/CtrlLib.h>
#include <Controls4U/Controls4U.h>
#include <JFControls/MyMeter.h>
#include <JFControls/JFslider.h>
#include <JFControls/SlideSw.h>
#include <JFControls/JFStaticText.h>

using namespace Upp;

#endif

and I traced it down to Controls4u.h It is just the file that I need to include in NIdaq.cpp for the project to compile and build.

ps2: I tracked it down to core.h that is needed for the nidaq.cpp to build and link correctly. Now I am totally confused

end ps

Subject: Re: I have a problem linking a LIB
Posted by koldo on Fri, 03 Sep 2010 07:31:29 GMT
View Forum Message <> Reply to Message

Hello Jerson

Yes, now I understand your initial question .

In case 2 go to nidaq.cpp and begin it with this:

```
#include <CtrlLib/CtrlLib.h> // Added
using namespace Upp;   // Added
#include "NIDAQmx.h"
```

or instead, do not change nidaq.cpp and in NIDAQmx.h uncomment int16 and int32.

About compiling problems, I have found them but I am trying to define them in a simple manner to be easily reproduced.

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by jibe on Tue, 17 May 2011 13:39:48 GMT
View Forum Message <> Reply to Message

Hi,

I have a similar problem, but don't find any way to avoid link errors :
- Stop and re-launch Theide,
- Change mode Debug/Optimal/speed/size,
- Verify all config files that I think they could change something

I don't find any way to avoid the link error...

I have 2 very similar apps, 1 is Ok and the other not, I don't see any difference... I don't understand...

There is surely some config or else that I don't see... What could make this error ?

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by koldo on Tue, 17 May 2011 13:56:49 GMT
View Forum Message <> Reply to Message

Hello Beji

Could you submit the lib package with a simple sample to check?

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by jibe on Mon, 23 May 2011 07:40:17 GMT
View Forum Message <> Reply to Message

Hi,

Sorry, Koldo : I was busy on others works... Thanks for your help

Finally, I found the problem. Seems that I did not understand something about namespace upp... I

had this code for a control :

#include <CtrlLib/CtrlLib.h>

NAMESPACE_UPP

#include "MyControl.h"

(code for this control...)

END_UPP_NAMESPACE

I just changed NAMESPACE_UPP to "using namespace Upp;"

#include <CtrlLib/CtrlLib.h>

//NAMESPACE_UPP
using namespace Upp;

#include "MyControl.h"

(code for this control...)

//END_UPP_NAMESPACE

... and it's working !

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by koldo on Mon, 23 May 2011 14:03:35 GMT
View Forum Message <> Reply to Message

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by mr_ped on Tue, 24 May 2011 07:33:24 GMT
View Forum Message <> Reply to Message

NAMESPACE_UPP and END_UPP_NAMESPACE are used to define things in Upp:: namespace, ie. if you are extending UPP lib itself.

When you are working on your own classes, which just use Upp classes, you should rather use "using namespace Upp;", or write Upp:: everywhere ahead of UPP class, but keep your app classes outside of Upp namespace. (either in no namespace or in your own app namespace)

Subject: Re: [SOLVED] I have a problem linking a LIB
Posted by jibe on Thu, 26 May 2011 09:24:31 GMT

Hi,

Thanks for these explanations