
Subject: any experiments with gcc4.1?

Posted by [fudadmin](#) on Tue, 22 Nov 2005 14:06:37 GMT

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Has anyone had any experiments with gcc4.1?

Subject: Re: any experiments with gcc4.1?

Posted by [abarilla](#) on Mon, 13 Mar 2006 17:45:07 GMT

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I just installed Fedora Core 6 Test 3 which is using GCC 4.1.0 and am receiving the following errors:

```
----- CtrlLib ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 1 / 10)
BLITZ: LabelBase.cpp Button.cpp Switch.cpp EditField.cpp Text.cpp LineEdit.cpp DocEdit.cpp
ScrollBar.cpp HeaderCtrl
.cpp ArrayCtrl.cpp DropList.cpp DropPusher.cpp DropChoice.cpp Static.cpp Splitter.cpp
SliderCtrl.cpp ColumnList
.cpp Progress.cpp AKeys.cpp RichTextView.cpp RichClip.cpp Prompt.cpp Help.cpp Bar.cpp
MenuBar.cpp ToolBar.cpp T
oolTip.cpp StatusBar.cpp TabCtrl.cpp TreeCtrl.cpp DlgColor.cpp ColorPopup.cpp
ColorPusher.cpp FileList.cpp File
Sel.cpp Windows.cpp Win32.cpp CtrlUtil.cpp Update.cpp LNGCtrl.cpp
/home/andrew/upp/uppsrc/CtrlLib/TabCtrl.h:142: error: extra qualification 'TabDlg::' on
member 'Add0'
/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T =
unsigned char]':
/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with
T = unsigned char]'
/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T =
unsigned char]'
/home/andrew/upp/uppsrc/Draw/PixelArray.h:137: instantiated from here
/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'
/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T =
int]':
/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with
T = int]'
/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T =
int]'
/home/andrew/upp/uppsrc/RichText/Txt.h:84: instantiated from here
/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'
/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T =
bool]':
/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with
T = bool]'
/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T =
```

bool]'

/home/andrew/upp/uppsrc/CtrlLib/ArrayCtrl.cpp:1910: instantiated from here

/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'

/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T = unsigned int]':

/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with T = unsigned int]'

/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T = unsigned int]'

/home/andrew/upp/uppsrc/CtrlLib/Bar.cpp:318: instantiated from here

/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'

/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T = void*]':

/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with T = void*]'

/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T = void*]'

/home/andrew/upp/uppsrc/Core/Vcont.h:194: instantiated from 'Array<T>::Array() [with T = XmlNode]'

/home/andrew/upp/uppsrc/Core/XML.h:147: instantiated from here

/home/andrew/upp/uppsrc/Core/Topt.h:206: error: 'void*' is not a pointer-to-object type

CtrlLib.icpp

/home/andrew/upp/uppsrc/CtrlLib/TabCtrl.h:142: error: extra qualification 'TabDlg::' on member 'Add0'

/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T = unsigned char]':

/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with T = unsigned char]'

/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T = unsigned char]'

/home/andrew/upp/uppsrc/Draw/PixelArray.h:137: instantiated from here

/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'

/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T = int]':

/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with T = int]'

/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T = int]'

/home/andrew/upp/uppsrc/RichText/Txt.h:84: instantiated from here

/home/andrew/upp/uppsrc/Core/Topt.h:206: error: invalid type argument of 'unary **'

/home/andrew/upp/uppsrc/Core/Topt.h: In function 'void AssertMoveable0(T*) [with T = void*]':

/home/andrew/upp/uppsrc/Core/Topt.h:215: instantiated from 'void AssertMoveable(T*) [with T = void*]'

/home/andrew/upp/uppsrc/Core/Vcont.h:85: instantiated from 'Vector<T>::~~Vector() [with T = void*]'

/home/andrew/upp/uppsrc/Core/Vcont.h:194: instantiated from 'Array<T>::Array() [with T = XmlNode]'

/home/andrew/upp/uppsrc/Core/XML.h:147: instantiated from here
/home/andrew/upp/uppsrc/Core/Topt.h:206: error: 'void*' is not a pointer-to-object type
1 file(s) compiled in (0:09.00) 9002 msec/file

There were errors. (0:58.50)

This is from compiling the AddressBook example

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Mon, 13 Mar 2006 18:03:50 GMT
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OMG, not again.... We have to workaround this GCC bug for each single release since gcc 3.0 - and keeping it work with all versions on the way is more and more trouble....

Mirek

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Mon, 13 Mar 2006 18:09:10 GMT
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Well, actually, maybe this time it is the workaround that causes the trouble...

Core/Topt.h: 222

```
#if defined(COMPILER_MSC) || defined(COMPILER_GCC)
#define NTL_MOVEABLE(T) inline void AssertMoveable0(T *) {}
#else
#define NTL_MOVEABLE(T) template<> inline void AssertMoveable<T>(T *) {}
#endif
```

Please try to change it to

```
#if defined(COMPILER_MSC)
```

so that GCC branch will use variant with template<>. If it will work, we will simply detect GCC 4.1 and use that....

Mirek

Subject: Re: any experiments with gcc4.1?
Posted by [abarilla](#) on Mon, 13 Mar 2006 18:13:22 GMT
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That fixed it except for the TabDlg error which is also easily fixed.

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Mon, 13 Mar 2006 19:35:15 GMT
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abarilla wrote on Mon, 13 March 2006 13:13 That fixed it except for the TabDlg error which is also easily fixed.

Ehm, could you be more specific? I am going to use that fix in sources, so that this week dev version is possibly fixed....

Mirek

Subject: Re: any experiments with gcc4.1?
Posted by [abarilla](#) on Mon, 13 Mar 2006 21:17:47 GMT
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Line 142 of TabCtrl.h gets changed from:

```
TabCtrl::Item& TabDlg::Add0(Ctrl& tab, const char *text);
```

to:

```
TabCtrl::Item& Add0(Ctrl& tab, const char *text);
```

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Mon, 13 Mar 2006 21:56:45 GMT
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Please, could you check whether this:

```
#if defined(COMPILER_MSC) || defined(COMPILER_GCC) && (__GNUC__ < 4 ||  
__GNUC_MINOR__ < 1)  
#define NTL_MOVEABLE(T) inline void AssertMoveable0(T *) {}  
#else  
#define NTL_MOVEABLE(T) template<> inline void AssertMoveable<T>(T *) {}  
#endif
```

fixes U++ to compile with 4.1? (Just to test whether the macro condition is right...)

Mirek

Subject: Re: any experiments with gcc4.1?
Posted by [abarilla](#) on Mon, 13 Mar 2006 23:11:05 GMT
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It appears if I spoke to soon. I must have missed errors because both the removal of defined(COMPILER_GCC) and the new code cause the following errors:

```
----- CtrlLib ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 1 / 10)
BLITZ: LabelBase.cpp Button.cpp Switch.cpp EditField.cpp Text.cpp LineEdit.cpp DocEdit.cpp
ScrollBa
r.cpp HeaderCtrl.cpp ArrayCtrl.cpp DropList.cpp DropPusher.cpp DropChoice.cpp Static.cpp
Splitt
er.cpp SliderCtrl.cpp ColumnList.cpp Progress.cpp AKeys.cpp RichTextView.cpp RichClip.cpp
Promp
t.cpp Help.cpp Bar.cpp MenuBar.cpp ToolBar.cpp ToolTip.cpp StatusBar.cpp TabCtrl.cpp
TreeCtrl.c
pp DlgColor.cpp ColorPopup.cpp ColorPusher.cpp FileList.cpp FileSel.cpp Windows.cpp
Win32.cpp C
trlUtil.cpp Update.cpp LNGCtrl.cpp
40 file(s) compiled in (0:41.37) 1034 msec/file
CtrlLib.icpp
1 file(s) compiled in (0:04.45) 4456 msec/file
----- Report ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 2 / 10)
BLITZ: Report.cpp ReportDlg.cpp
2 file(s) compiled in (0:04.89) 2449 msec/file
Reportl.icpp
1 file(s) compiled in (0:03.57) 3578 msec/file
----- CtrlCore ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 3 / 10)
BLITZ: Frame.cpp Ctrl.cpp CtrlChild.cpp CtrlPos.cpp CtrlDraw.cpp CtrlMouse.cpp CtrlKbd.cpp
CtrlTime
r.cpp LocalLoop.cpp TopWindow.cpp Win32Wnd.cpp Win32Proc.cpp TopWin32.cpp DHCtrl.cpp
X11Wnd.cpp
X11Proc.cpp TopWinX11.cpp X11Clip.cpp X11App.cpp
19 file(s) compiled in (0:09.23) 486 msec/file
----- RichText ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 4 / 10)
BLITZ: Object.cpp ParaData.cpp ParaType.cpp ParaPaint.cpp TxtData.cpp TxtPaint.cpp
TxtOp.cpp Format
.cpp TableCell.cpp TableLayout.cpp TablePaint.cpp TableData.cpp TextPaint.cpp TextStyle.cpp
Tex
tClipboard.cpp TextData.cpp TextTable.cpp EncodeQtf.cpp ParseQtf.cpp EncodeRTF.cpp
ParseRTF.cpp
```

```
EncodeHTML.cpp Util.cpp
23 file(s) compiled in (0:22.77) 990 msec/file
----- Draw ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 5 / 10)
BLITZ: DrawWin32.cpp DrawX11.cpp DrawText.cpp DrawTextWin32.cpp DrawTextXlfd.cpp
DrawTextXft.cpp SS
  ettings.cpp Draw.cpp DrawOpWin32.cpp DrawOpX11.cpp Drawing.cpp MetaFile.cpp
DrawUtil.cpp DrawTe
  xtUtil.cpp Display.cpp Debug.cpp PixelArray.cpp PixelBlt.cpp PixelPal.cpp PixelUtil.cpp Image.c
  pp ImageUtil.cpp io.cpp bmp.cpp
24 file(s) compiled in (0:24.10) 1004 msec/file
----- Core ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ LINUX ) ( 6 / 10)
BLITZ: Mt.cpp Thread.cpp heap.cpp heapdbg.cpp String.cpp StrUtil.cpp CharSet.cpp Path.cpp
App.cpp S
  tream.cpp Log.cpp Debug.cpp Util.cpp mathutil.cpp Cont.cpp Callback.cpp Color.cpp Gtypes.cpp
Ti
  meDate.cpp Value.cpp Convert.cpp Format.cpp t.cpp Lang.cpp parser.cpp XML.cpp Xmlize.cpp
Uuid.c
  pp Ptr.cpp Topic.cpp Win32Com.cpp Dli.cpp
/home/andrew/upp/uppsrc/Core/Topt.h: In function 'unsigned int GetHashValue(const T&) [with
T = con
st char*]':
/home/andrew/upp/uppsrc/Core/Index.h:77: instantiated from 'unsigned int
StdHash<T>::operator()(c
onst T&) const [with T = const char*]'
/home/andrew/upp/uppsrc/Core/Index.hpp:192: instantiated from 'int AIndex<T, V,
HashFn>::Find(con
st T&) const [with T = const char*, V = Vector<const char*>, HashFn = StdHash<const
char*>]'
/home/andrew/upp/uppsrc/Core/Map.h:13: instantiated from 'int AMap<K, T, V,
HashFn>::Find(const K
&) const [with K = const char*, T = const char*, V = Vector<const char*>, HashFn =
StdHash<cons
t char*>]'
/home/andrew/upp/uppsrc/Core/t.cpp:222: instantiated from here
/home/andrew/upp/uppsrc/Core/Topt.h:393: error: request for member 'GetHashValue' in
'x', which is
of non-class type 'const char* const'
```

There were errors. (1:59.08)

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Mon, 13 Mar 2006 23:20:17 GMT
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Please try Core/t.cpp:186

```
int current_lang;

template<>
inline unsigned GetHashValue(const char * const &s)
{
    return GetPtrHashValue(s);
}
```

Mirek

Subject: Re: any experiments with gcc4.1?
Posted by [unodgs](#) on Tue, 14 Mar 2006 07:30:39 GMT
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Mirek if you want to experiment with gcc 4.x on windows download it from here:
<http://oss.netfarm.it/mplayer-win32.php>
(go to misc files section...)

Subject: Re: any experiments with gcc4.1?
Posted by [abarilla](#) on Tue, 14 Mar 2006 15:32:25 GMT
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That did it. And this time I made sure the example app actually ran.

Subject: Re: any experiments with gcc4.1?
Posted by [hojtsy](#) on Sat, 01 Apr 2006 11:42:50 GMT
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unodgs wrote on Tue, 14 March 2006 02:30Mirek if you want to experiment with gcc 4.x on windows download it from here:
<http://oss.netfarm.it/mplayer-win32.php>
(go to misc files section...)
Did anybody tried this? Is gcc 4.1 working out of the box with U++ on Windows?

Subject: Re: any experiments with gcc4.1?
Posted by [mirek](#) on Sat, 01 Apr 2006 13:54:32 GMT
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hojtsy wrote on Sat, 01 April 2006 06:42unodgs wrote on Tue, 14 March 2006 02:30Mirek if you want to experiment with gcc 4.x on windows download it from here:
<http://oss.netfarm.it/mplayer-win32.php>

(go to misc files section...)

Did anybody tried this? Is gcc 4.1 working out of the box with U++ on Windows?

I did If I remember well, compilation was OK, linking failed. Did not investigated further....

Mirek
