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## Subject: PdfDraw isn't linked in when compiling for Win on Linux using Clang-MinGW

Posted by [Novo](#) on Wed, 08 Sep 2021 19:05:24 GMT

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### Problem:

lld-link: error: undefined symbol: Upp::PdfDraw\_\_initializer()

>>> referenced by /home/ssg/dvlp/cpp/code/upp/git/uppsrc/PdfDraw/PdfDraw.h:10

>>>

/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/nlp/conllu/MINGWcpp17.Debug.Debug\_Full.Gui.Main.Shared.Win32/conllu.o:(Upp::PdfDraw\_\_initialize\_struct::PdfDraw\_\_initialize\_struct())

lld-link: error: undefined symbol: Upp::PdfDraw::Finish(Upp::PdfSignatureInfo const\*)

>>> referenced by /home/ssg/dvlp/cpp/sergey/upp/dvlp/nlp/conllu/conllu.cpp:1814

>>>

/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/nlp/conllu/MINGWcpp17.Debug.Debug\_Full.Gui.Main.Shared.Win32/conllu.o:(App::ExportToPdf() const)

lld-link: error: undefined symbol: Upp::PdfDraw::Init(int, int, int, bool)

>>> referenced by /home/ssg/dvlp/cpp/code/upp/git/uppsrc/PdfDraw/PdfDraw.h:373

>>>

/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/nlp/conllu/MINGWcpp17.Debug.Debug\_Full.Gui.Main.Shared.Win32/conllu.o:(Upp::PdfDraw::PdfDraw(int, int, bool))

lld-link: error: undefined symbol: vtable for Upp::PdfDraw

>>> referenced by

/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/nlp/conllu/MINGWcpp17.Debug.Debug\_Full.Gui.Main.Shared.Win32/conllu.o:(.refptr.\_ZTVN3Upp7PdfDrawE)

### Command line:

```
/home/ssg/.local/soft/llvm-mingw/git/bin/x86_64-w64-mingw32-clang++ -mthreads -mwindows -o
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/MINGWcpp17.Debug.Debug_Full.Gui.Main.Shared.Win32/conllu.exe" -Wl,-pdb=
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/nlp/conllu/MINGWcpp17.Debug.Debug_Full.Gui.Main.Shared.Win32/conllu.o" "/ho
```

```
me/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlLib/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/CtrlLib$blitz.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlLib/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/CtrlLibInit.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlLib/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/ChWin32.o"
.o"
```

```
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/sparser/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/sparser.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/ctrl/about/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/about.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/ctrl/ArrayTree/MINGWcpp17.Debug.Debug_Full.
```

Gui

```
.Shared.Win32/ArrayTree.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlCore/MINGWcpp17.Debug.Debug_Full.Gui.Shared
.Win32/CtrlCore$blitz.o" "/home/ssg/dvlp/cp

p/code/upp/out/MyApps/CtrlCore/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/CtrlCoreIni
t.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Draw/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/Draw$blitz.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/bmp/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/plugin/bmp$blitz.o" "/"

home/ssg/dvlp/cpp/code/upp/out/MyApps/RichText/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/RichText$blitz.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter
/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/Painter$blitz.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/S
vgUtil.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/SvgBounds.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/P
ainter/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/SvgStyle.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/
SvgParser.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/Core$blitz.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/
Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/heaputil.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/hheap
.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/sheap.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp1
7.Debug.Debug_Full.Gui.Shared.Win32/lheap.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/heap.o" "/home/ssg/dvlp/

p/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/heapdbg.
o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/String.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/CharSet.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/CvFlt.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/t.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/z.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/lib_lz4.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/lib_xxhash.c.o"
```

```

/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Win32/lib_adler32.c.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin
n/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/lib_compress.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Wi
n32/lib_crc32.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Win32/lib_deflate.c.o" "/home/ssg/dvlp/cpp/code/up
p/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/lib_inffback.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_F
ull.Gui.Shared.Win32/lib_inffast.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Win32/lib_inflate.c.o" "/home/s

```

```

sg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/li
b_inftrees.c.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MING
Wcpp17.Debug.Debug_Full.Gui.Shared.Win32/lib_trees.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Win32/lib_unc
ompr.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/z/MINGWcpp17.Debug.Debug_Full.Gui.Shared.
Win32/lib_zutil.c.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApp
s/plugin/png/MINGWcpp17.Debug.Debug_Full.Gui.Shared.Win32/plugin/png$blitz.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/png/MINGWcpp17.Debug.Debug_Full.
Gui.Shared.Win32/pnglib.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/ADT/MINGWcpp17.Debug.Debug_Full.Gui.Share
d.Win32/dvlp/ADT$blitz.o" -Wl,--start-grou
p -ladvapi32 -lcomdlg32 -lcomctl32 -luser32 -lgdi32 -luser32 -lgdi32 -lkernel32 -luser32 -lole32
-loleaut32 -luuid -lws2_32 -ladvapi32 -lshell32 -lwinmm -lm
pr -Wl,--end-group

```

Command line when compiled with regular Clang on Linux:

```

/usr/bin/clang++ -o
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/CLANGcpp17.Debug.Debug_Full.Gui.Shared/conllu"
-ggdb -L"/usr/lib/x86_64-linux-gnu" "/home/ssg/dvlp/cp
p/code/upp/out/MyApps/dvlp/nlp/conllu/CLANGcpp17.Debug.Debug_Full.Gui.Main.Shared/conllu.
o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlLib/CLANGcpp17.Debug.
Debug_Full.Gui.Shared/CtrlLib$blitz.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlLib/CLANGcpp17.Debug.Debug_Full.Gui.Shared/
CtrlLibInit.o" "/home/ssg/dvlp/
cpp/code/upp/out/MyApps/CtrlLib/CLANGcpp17.Debug.Debug_Full.Gui.Shared/ChWin32.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/sparser/CLANGcpp17.Debug.Debug
_Full.Gui.Shared/sparser.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/ctrl/about/CLANGcpp17.Debug.Debug_Full.Gui.S
hared/about.o" "/home/ssg/dvlp/cpp/code/
upp/out/MyApps/dvlp/ctrl/ArrayTree/CLANGcpp17.Debug.Debug_Full.Gui.Shared/ArrayTree.o"

```

"/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlCore/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/CtrlCore\$blitz.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/CtrlCore/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/CtrlCoreInit.o" "/home/ssg/dvlp/c  
 pp/code/upp/out/MyApps/PdfDraw/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/PdfDraw\$blitz.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/PdfDraw/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/PdfDraw.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Draw/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/Draw\$blitz.o" "/home/ssg/dvlp/cpp/code/upp/ou  
 t/MyApps/plugin/bmp/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/plugin/bmp\$blitz.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/RichText/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/RichText\$blitz.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/Painter\$blitz.o" "/home/ssg/dvlp/cpp/code/  
 upp/out/MyApps/Painter/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/SvgUtil.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/SvgBounds.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Painter/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/SvgStyle.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Pa  
 inter/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/SvgParser.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/Core\$blitz.o" "  
 /home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/heaputil.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.  
 Debug\_Full.Gui.Shared/hheap.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/heap.o" "/home/ssg/dvlp/cpp/code/upp/out/  
 MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/lheap.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/heap.o" "/hom  
 e/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/heapdbg  
 .o" "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/String.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/CharacterSet.o" "/home/ssg/dvlp/cpp/code/upp/out/My  
 Apps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/CvFilt.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/t.o"  
 " "/home/ssg/  
 /dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/z.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/lib\_lz4.c.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/Core/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/lib\_xxhash.c.o" "/home/ssg/dvlp/cpp/code/upp/out/MyApp  
 s/plugin/png/CLANGcpp17.Debug.Debug\_Full.Gui.Shared/plugin/png\$blitz.o"  
 "/home/ssg/dvlp/cpp/code/upp/out/MyApps/plugin/png/CLANGcpp17.Debug.Debug\_Full.Gui.Sh

```

    ared/pnglib.c.o"
"/home/ssg/dvlp/cpp/code/upp/out/MyApps/dvlp/ADT/CLANGcpp17.Debug.Debug_Full.Gui.Share
d/dvlp/ADT$blitz.o" -Wl,--start-group -lfreetype
-lX11
-lXinerama
-lXrender -lX11
-lXft
-lXdmcp
-lfontconfig -lfreetype
-lxcb
-lXext
-lgtk-3 -lgdk-3 -lpangocairo-1.0 -lpango-1.0 -lharfbuzz -latk-1.0 -lcairo-gobject -lcairo
-lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -glib-2.0
-lnotify -lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -glib-2.0
-lexpat
-lpng16 -lz
-lpthread -ldl -lrt -lz -Wl,--end-group

```

BM-file:

```

BUILDER = "CLANG";
COMPILER = "x86_64-w64-mingw32-clang++";
COMMON_OPTIONS = "";
COMMON_CPP_OPTIONS = "-Wall -Wno-logical-op-parentheses -std=c++17";
COMMON_C_OPTIONS = "";
COMMON_LINK = "";
COMMON_FLAGS = "WIN32";
DEBUG_INFO = "2";
DEBUG_BLITZ = "1";
DEBUG_LINKMODE = "0";
DEBUG_OPTIONS = "-O0";
DEBUG_FLAGS = "";
DEBUG_LINK = "";
RELEASE_BLITZ = "1";
RELEASE_LINKMODE = "0";
RELEASE_OPTIONS = "-O3 -ffunction-sections -fdata-sections";
RELEASE_FLAGS = "";
RELEASE_LINK = "-Wl,--gc-sections";
DEBUGGER = "x86_64-w64-mingw32-gdb";
ALLOW_PRECOMPILED_HEADERS = "0";
DISABLE_BLITZ = "0";
PATH =
"/home/ssg/.local/soft/llvm-mingw/git/bin;/home/ssg/.local/soft/llvm-mingw/git/x86_64-w64-mingw3
2/bin";
INCLUDE = "";
LIB = "";
LINKMODE_LOCK = "0";

```

TIA

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Subject: Re: PdfDraw isn't linked in when compiling for Win on Linux using Clang-MinGW

Posted by [Novo](#) on Wed, 08 Sep 2021 19:13:06 GMT

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For some reason PdfDraw is added only for POSIX ...  
There was no such limitation half a year ago ...

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Subject: Re: PdfDraw isn't linked in when compiling for Win on Linux using Clang-MinGW

Posted by [mirek](#) on Thu, 09 Sep 2021 08:03:57 GMT

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Novo wrote on Wed, 08 September 2021 21:13: For some reason PdfDraw is added only for POSIX ...  
There was no such limitation half a year ago ...

It was always this way. (First commit in github:  
<https://github.com/ultimatepp/ultimatepp/blob/73cfd7617ee0d2e700eb5260b2d0e3167420037c/uppsrc/CtrlLib/CtrlLib.upp>)

PdfDraw is used by CtrlLib with POSIX condition because it is used for printing. It is not needed in Win32, so no reason to increase exe size.

If you need PdfDraw in the project, you need to add it without the condition to some of your packages. (I agree this might be confusing as the fact there is a condition is not apparent from the workspace list, but I see no simple way how to improve that one).

Mirek

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Subject: Re: PdfDraw isn't linked in when compiling for Win on Linux using Clang-MinGW

Posted by [Novo](#) on Thu, 09 Sep 2021 14:35:09 GMT

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Thanks for the clarification.

Actually, this project had no problems with compilation in June, till a refactoring, related to compilation of PdfDraw with one of UppHub projects.

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Subject: Re: PdfDraw isn't linked in when compiling for Win on Linux using

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Clang-MinGW

Posted by [Novo](#) on Sun, 19 Sep 2021 13:38:41 GMT

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I've got the same problem when cross-compiling from Linux to OSX.

`COMMON_FLAGS = "OSX"`

I had to add PdfDraw explicitly for all platforms.

Something is wrong.

I guess "OSX" doesn't imply POSIX.

Most likely the problem is related to cross-compilation.

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