Subject: Link problem on linux
Posted by Didier on Wed, 09 Oct 2013 21:31:39 GMT
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Hi,

A link problem has been introduced recently with the addition of fonts.
On my linux i get the following error :
Quote: ..../upp.out/MyApps/CtrlCore/GCC.Blitz.Gui.Shared.Sse2/DrawT extX11.o: In function `_GLOBAL__sub_I__ZN3Upp13gtk_antialiasE':
DrawTextX11.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp13gtk_a ntialiasE+0x86): undefined reference to `Upp::GetFontInfoSysXft'
DrawTextX11.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp13gtk_a ntialiasE+0x90): undefined reference to `Upp::GetGlyphInfoSysXft'

When looking at the code all seems right : the variables are instanciated :
Quote:uppsrc/Draw/FontFc.cpp(144):CommonFontInfo (*GetFontInfoSysXft)(Font font);

And extern is used to tell these vars are available in another section.

The following question comes to my mind : "extern xxx;" is a C syntax, is it allowed in C++ ????

Subject: Re: Link problem on linux
Posted by mirek on Thu, 10 Oct 2013 08:48:54 GMT
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Are you sure you have Draw package in the project?

Subject: Re: Link problem on linux
Posted by Didier on Thu, 10 Oct 2013 20:14:47 GMT
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Hi mirek,

Unfortunantly yes
I wish it was so simple.

There is probably a conditionnal include problem.
I'll look into it now

Here is what I get when I compile Draw01 tutorial
Quote:----- CtrlLib (GUI GCC SHARED BLITZ LINUX POSIX) (1 / 9)
----- CtrlCore (GUI GCC SHARED BLITZ LINUX POSIX) (2 / 9)
----- PdfDraw (GUI GCC SHARED BLITZ LINUX POSIX) (3 / 9)

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----- Draw ( GUI GCC SHARED BLITZ LINUX POSIX ) (4 / 9)
----- plugin/bmp ( GUI GCC SHARED BLITZ LINUX POSIX ) (5 / 9)
----- RichText ( GUI GCC SHARED BLITZ LINUX POSIX ) (6 / 9)
----- Core ( GUI GCC SHARED BLITZ LINUX POSIX ) (7 / 9)
----- plugin/png ( GUI GCC SHARED BLITZ LINUX POSIX ) (8 / 9)
----- Draw01 ( GUI MAIN GCC SHARED BLITZ LINUX POSIX ) (9 / 9)
Linking...
 /users/didier/upp.out/tutorial/CtrlCore/GCC.Blitz.Gui.Shared /$blitz.o: In function
`_GLOBAL__sub_I__ZN3Upp11ImageBufferC2ERNS_9ImageDrawE':
 $blitz.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp11ImageBuffe
rC2ERNS_9ImageDrawE+0x367): undefined reference to `Upp::GetFontInfoSysXft'
 $blitz.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp11ImageBuffe
rC2ERNS_9ImageDrawE+0x371): undefined reference to `Upp::GetGlyphInfoSysXft'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function
`Upp::Font::GetData() const':
$blitz.cpp:(.text._ZNK3Upp4Font7GetDataEv+0x14): undefined reference to
`Upp::GetFontDataSys(Upp::Font)'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function `Upp::Font::List()':
$blitz.cpp:(.text._ZN3Upp4Font4ListEv+0x87): undefined reference to `Upp::GetAllFacesSys()'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function
`Upp::Font::InitStdFont()':
$blitz.cpp:(.text._ZN3Upp4Font11InitStdFontEv+0x61): undefined reference to
`Upp::GetStdFontSys(Upp::String&, int&)'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function
`Upp::GetFontInfo(Upp::Font)':
$blitz.cpp:(.text._ZN3Upp11GetFontInfoENS_4FontE+0x65): undefined reference to
`Upp::GetFontInfoSys(Upp::Font)'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function
`Upp::IsNormal(Upp::Font, int)':
$blitz.cpp:(.text._ZN3Upp8IsNormalENS_4FontEi+0x82): undefined reference to
`Upp::GetGlyphInfoSys(Upp::Font, int)'
 /users/didier/upp.out/tutorial/Draw/GCC.Blitz.Gui.Shared/$bl itz.o: In function
`Upp::GetGlyphEntry(Upp::Font, int, unsigned int)':
$blitz.cpp:(.text._ZN3Upp13GetGlyphEntryENS_4FontEij+0xf7): undefined reference to
`Upp::GetGlyphInfoSys(Upp::Font, int)'
 /users/didier/upp.out/tutorial/CtrlLib/GCC.Blitz.Gui.Shared/ ChGtk.o: In function
`Upp::ChHostSkin()':
ChGtk.cpp:(.text._ZN3Upp10ChHostSkinEv+0x545): undefined reference to
`Upp::ClearFtFaceCache()'
ChGtk.cpp:(.text._ZN3Upp10ChHostSkinEv+0x402d): undefined reference to
`Upp::ClearFtFaceCache()'
collect2: error: ld returned 1 exit status

There were errors. (0:00.84)
```

Subject: Re: Link problem on linux
Posted by Didier on Thu, 10 Oct 2013 21:16:37 GMT
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OK I found what is wrong,

the flag CUSTOM_FONTSYS is present in the main.conf.h

BUT .....

If I remove it, it just comes back again.
TheIDE just adds it automatically again and again

This flag was being added by the plugin/FT_fontsys package (I had added it to my project last WE just to try and completelly forgot about it !!!)

==> the conclusion is : plugin/FT_fontsys does not work on linux

Subject: Re: Link problem on linux
Posted by mirek on Fri, 11 Oct 2013 06:29:03 GMT
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Didier wrote on Thu, 10 October 2013 17:16OK I found what is wrong,

the flag CUSTOM_FONTSYS is present in the main.conf.h

BUT .....

If I remove it, it just comes back again.
TheIDE just adds it automatically again and again

This flag was being added by the plugin/FT_fontsys package (I had added it to my project last WE just to try and completelly forgot about it !!!)

==> the conclusion is : plugin/FT_fontsys does not work on linux

That is sort of weird, as I am compiling it several times a day, working on SDL/OpenGL backend... but will check it.

Mirek

Subject: Re: Link problem on linux
Posted by Didier on Fri, 11 Oct 2013 15:54:37 GMT
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I've just done a simple test:

Added plugin/FT_fontsys to Draw01 tutorial, did a complete rebuild and got the following errors:

Quote:MD5.cpp
SHA1.cpp
----- plugin/png (GUI GCC SHARED BLITZ LINUX POSIX) (9 / 10)
pnglib.c
pngupp.cpp
pngreg.icpp
----- Draw01 (GUI MAIN GCC SHARED BLITZ LINUX POSIX) (10 / 10)
main.cpp
Core: 55 file(s) built in (0:00.61), 11 msecs / file, duration = 2544 msecs, parallelization 100%
plugin/png: 3 file(s) built in (0:00.02), 7 msecs / file, duration = 359 msecs, parallelization 100%
Draw01: 1 file(s) built in (0:00.18), 188 msecs / file, duration = 416 msecs, parallelization 47%
Linking...
  /users/didier/upp.out/tutorial/CtrlCore/GCC.Blitz.Gui.Shared /$blitz.o: In function
`_GLOBAL__sub_I__ZN3Upp11ImageBufferC2ERNS_9ImageDrawE':
  $blitz.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp11ImageBuffe
rC2ERNS_9ImageDrawE+0x367): undefined reference to `Upp::GetFontInfoSysXft'
  $blitz.cpp:(.text.startup._GLOBAL__sub_I__ZN3Upp11ImageBuffe
rC2ERNS_9ImageDrawE+0x371): undefined reference to `Upp::GetGlyphInfoSysXft'
collect2: error: ld returned 1 exit status

I verified that the main.conf.h file for Draw01 contained : #define CUSTOM_FONTSYS

==> I'm back to my original question: is "extern xxxx" really accepted in C++ ??? or is my GCC doing me some nasty tricks ???

My GCC is the following :
Quote:[didier@localhost ~]$ gcc -v
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
  COLLECT_LTO_WRAPPER=/usr/libexec/gcc/i686-redhat-linux/4.7.2 /lto-wrapper
Target: i686-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man --infodir=/usr/share/info
--with-bugurl=http://bugzilla.redhat.com/bugzilla --enable-bootstrap --enable-shared
--enable-threads=posix --enable-checking=release --disable-build-with-cxx
--disable-build-poststage1-with-cxx --with-system-zlib --enable-__cxa_atexit
--disable-libunwind-exceptions --enable-gnu-unique-object --enable-linker-build-id
--with-linker-hash-style=gnu   --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lt o
--enable-plugin --enable-initfini-array --enable-java-awt=gtk --disable-dssi
--with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre --enable-libgcj-multifile
--enable-java-maintainer-mode --with-ecj-jar=/usr/share/java/eclipse-ecj.jar
--disable-libjava-multilib --with-ppl --with-cloog --with-tune=generic --with-arch=i686
--build=i686-redhat-linux
Thread model: posix

gcc version 4.7.2 20120921 (Red Hat 4.7.2-2) (GCC)

Subject: Re: Link problem on linux
Posted by mirek on Fri, 11 Oct 2013 16:24:25 GMT
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OK, now I understand the problem: FT_FontSys replaces font handling in Draw, but CtrlCore with GTK or X11 backend requests some specific routines linking it to Xft. Which means you cannot use FT_FontSys with GTK nor X11 backend...

Subject: Re: Link problem on linux
Posted by Didier on Mon, 14 Oct 2013 20:04:04 GMT
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OK thank's for the reply