
Subject: Re: Some small issues with TheIDE and DLLs

Posted by [tojocky](#) on Wed, 15 Jul 2009 15:26:03 GMT

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Ok!

About static and dynamic libraries.

I tried to export from visual studio project to u++ example and can't to simulate same situation in U++. Maybe I'm not know U++ so all!

I attached Both variants, visual studio c++ 2008 expres edition and U++ version.

For MSC expres compiles and works fine but for U++ I cant compiled.

This example contains 4 packages(project):

myengine - core project that compiles in dll and links in all other packages as static link

myapplication - main console exe file

opengl_plugin - dll plugin

zip_plugin - dll plugin

If anybody can help me on this simple example I will can to continue my test on linux too. I'm interesting in plugin framework. Short good wiki founded here, here and here:

Thanks for attention!

Add:

For details in U++ on I compile package "myengine" I have following error:

Quote:

```
----- myengine ( DLL MYENGINE_EXPORTS MAIN MSC9 DEBUG DEBUG_FULL BLITZ WIN32  
MSC )
```

```
cd D:\Lupascu\sourcecode\cpp\upp\plugin_cpp_example1\myengine
```

```
BLITZ: storage_server.cpp myengine.cpp
```

```
$blitz.cpp
```

```
"C:\Program Files\Microsoft Visual Studio 9.0\VC\Bin\cl.exe" -nologo -W3 -GR -c
```

```
-I"D:\Lupascu\sourcecode\cpp\upp\plugin_cpp_example1" -I"C:\Progra
```

```
m Files\Microsoft SDKs\Windows\v6.0A\Include" -I"C:\Program Files\Microsoft Visual Studio
```

```
9.0\VC\Include" -I"C:\upp\sd\include" -DflagDLL -Dfl
```

```
agMYENGINE_EXPORTS -DflagMAIN -DflagMSC9 -DflagDEBUG -DflagDEBUG_FULL
```

```
-DflagBLITZ -DflagWIN32 -DflagMSC -DbmYEAR=2009 -DbmMONTH=7 -DbmDAY=16 -D
```

```
bmHOUR=14 -DbmMINUTE=32 -DbmSECOND=41 -EHsc -Zi -MTd -Od -Gy -Fd"
```

```
C:/upp/out/myengine/MSC9.Debug.Debug_full.Dll.Main.Myengine_
```

```
1.pdb" -Tp " C:/upp/out/myengine/MSC9.Debug.Debug_full.Dll.Main.Myengine_
```

```
exports\blitz.cpp " -Fo"C:/upp/out/myengine/MSC9.Debug.Debug_full.Dll.M
```

```
ain.Myengine_exports\blitz.obj"
```

```
myengine: 2 file(s) built in (0:00.96), 484 msec / file, duration = 985 msec, parallelization 0%
```

```
Linking...
```

```
link -nologo -machine:I386 -pdb:"
```

```
C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.pdb "
```

```
-out:"C:\upp\out\MSC9.Debug.Debug_full.Dll.Mye
```

```
ngine_exports\myengine.dll" -incremental:yes -debug -OPT:NOREF -subsystem:console -DLL
```

```

-LIBPATH:"C:\Program Files\Microsoft SDKs\Windows\v6.0A\
Lib" -LIBPATH:"C:\Program Files\Microsoft Visual Studio 9.0\vc\lib" -LIBPATH:"C:\upp\sd\lib"
"C:\upp\out\myengine\MSC9.Debug.Debug_full.Dll
.Main.Myengine_exports\$blitz.obj"
Creating library C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.lib and
object C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.exp
$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::~~Plugin(void)" (??1Plugin@MyEngine@@QAE>@XZ) referenced
in function "public: void __thiscall MyEngine::Kernel::loadPlugin(class
std::basic_string<char,struct std::char_traits<char>,class std::alloca
tor<char> > const &)"
(?loadPlugin@Kernel>@MyEngine@@QAEXABV?$basic_string@DU?$char_traits@D>@std@
@V?$allocator@D>@2@@std@@@Z)
$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::Plugin(class std::basic_string<char,struct std::char_t
raits<char>,class std::allocator<char> > const &)"
(??0Plugin@MyEngine@@QAE>@ABV?$basic_string@DU?$char_traits@D>@std@@V?$alloc
ator@D>@2@@std@@@Z)
referenced in function "public: void __thiscall MyEngine::Kernel::loadPlugin(class
std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> > const &)"
(?loadPlugin@Kernel>@MyEngine@@QAEXABV?$basic_string@DU?$char_traits@D>@std@
@V?$allocator@D>@2@@std@@@Z)
$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::Plugin(class MyEngine::Plugin const &)" (??0Plugin@MyE
ngine@@QAE>@ABV01@@@Z) referenced in function "public: __thiscall std::pair<class
std::basic_string<char,struct std::char_traits<char>,class std:
:allocator<char> > const ,class MyEngine::Plugin>::pair<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> >
const ,class MyEngine::Plugin>(class std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> > const &,class MyEngine:
:Plugin const &)"
(??0?$pair@$CBV?$basic_string@DU?$char_traits@D>@std@@V?$allocator@D>@2@@std
@@VPlugin>@MyEngine@@@std@@QAE>@ABV?$basic_string@DU
?$char_traits@D>@std@@V?$allocator@D>@2@@1>@ABVPlugin>@MyEngine@@@Z)
C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.dll : fatal error LNK1120: 3
unresolved externals
"C:\Program Files\Microsoft Visual Studio 9.0\vc\Bin\link.exe" -nologo -machine:I386
-pdb:"C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\my
engine.pdb" -out:" C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengi ne.dll "
-incremental:yes -debug -OPT:NOREF -subsystem:console -DL
L -LIBPATH:"C:\Program Files\Microsoft SDKs\Windows\v6.0A\lib" -LIBPATH:"C:\Program
Files\Microsoft Visual Studio 9.0\vc\lib" -LIBPATH:"C:\upp\
sd\lib" " C:\upp\out\myengine\MSC9.Debug.Debug_full.Dll.Main.Myengine_ exports\$blitz.obj "
Error executing "C:\Program Files\Microsoft Visual Studio 9.0\vc\Bin\link.exe" -nologo
-machine:I386 -pdb:"C:\upp\out\MSC9.Debug.Debug_full.Dll.Mye
ngine_exports\myengine.pdb" -out:"

```

```
C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.dll " -incremental:yes
-debug -OPT:NOREF -subsystem:console -DLL -LIBPATH:"C:\Program Files\Microsoft SDKs\Windows\v6.0A\Lib"
-LIBPATH:"C:\Program Files\Microsoft Visual Studio 9.0\Vc\Lib" -
LIBPATH:"C:\upp\sd\lib" " C:\upp\out\myengine\MSC9.Debug.Debug_full.Dll.Main.Myengine_
exports\blitz.obj "
Exitcode: 1120
```

There were errors. (0:01.15)

In visual studio build I have following command lines:

Quote:Creating temporary file " d:\Lupascu\help\programming\cpp\best_plugin_example\myengine\Debug\RSP0000016923892.rsp " with contents

```
[
/Od /D "WIN32" /D "_DEBUG" /D "_WINDOWS" /D "_USRDLL" /D "MYENGINE_EXPORTS" /D
"_VC80_UPGRADE=0x0710" /D "_WINDLL" /D "_MBCS" /Gm /EHsc /RTC1 /MDd /Fo"Debug\\"
/Fd"Debug\vc90.pdb" /W3 /c /Wp64 /ZI /TP .\storage_server.cpp
```

.\plugin.cpp

.\myengine.cpp

```
]
Creating command line "cl.exe
@d:\Lupascu\help\programming\cpp\best_plugin_example\myengine\Debug\RSP0000016923892.rsp /nologo /errorReport:prompt"
Creating temporary file " d:\Lupascu\help\programming\cpp\best_plugin_example\myengine\Debug\TMP0000026923892.tmp " with contents
```

```
[
2 /* ISOLATIONAWARE_MANIFEST_RESOURCE_ID */ 24 /* RT_MANIFEST */
".\Debug\myengine.dll.embed.manifest"
]
```

Creating command line "rc.exe /fo".\Debug\myengine.dll.embed.manifest.res"

```
d:\Lupascu\help\programming\cpp\best_plugin_example\myengine\Debug\TMP0000026923892.tmp "
```

Creating temporary file " d:\Lupascu\help\programming\cpp\best_plugin_example\myengine\Debug\RSP0000036923892.rsp " with contents

```
[
/OUT:"..\Debug/myengine.dll" /INCREMENTAL /DLL /MANIFEST
/MANIFESTFILE:"Debug/myengine.dll.intermediate.manifest" /MANIFESTUAC:"level='asInvoker'
uiAccess='false'" /DEBUG /PDB:"..\Debug/myengine.pdb" /SUBSYSTEM:WINDOWS
/DYNAMICBASE:NO /IMPLIB:"..\Debug/myengine.lib" /MACHINE:X86 kernel32.lib user32.lib
gdi32.lib winspool.lib comdlg32.lib advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib
```

".\Debug\myengine.obj"

```

".\Debug\plugin.obj"

".\Debug\storage_server.obj"

".\Debug\myengine.dll.embed.manifest.res"
]
Creating command line "link.exe
@d:\ILupascu\help\programming\cpp\best_plugin_example\myengi
ne\Debug\RSP0000036923892.rsp /NOLOGO /ERRORREPORT:PROMPT"
Creating temporary file " d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\RSP0000046923892.rsp " with contents
[
/out:.\Debug\myengine.dll.embed.manifest /notify_update /manifest

.\Debug\myengine.dll.intermediate.manifest
]
Creating command line "mt.exe
@d:\ILupascu\help\programming\cpp\best_plugin_example\myengi
ne\Debug\RSP0000046923892.rsp /nologo"
Creating temporary file " d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\BAT0000056923892.bat " with contents
[
@echo Manifest resource last updated at %TIME% on %DATE% > .\Debug\mt.dep
]
Creating command line " d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\BAT0000056923892.bat "
Creating temporary file " d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\TMP0000066923892.tmp " with contents
[
2 /* ISOLATIONAWARE_MANIFEST_RESOURCE_ID */ 24 /* RT_MANIFEST */
".\Debug\myengine.dll.embed.manifest"
]
Creating command line "rc.exe /fo".\Debug\myengine.dll.embed.manifest.res"
d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\TMP0000066923892.tmp "
Creating temporary file " d:\ILupascu\help\programming\cpp\best_plugin_example\myengin
e\Debug\RSP0000076923892.rsp " with contents
[
/OUT:"../Debug/myengine.dll" /INCREMENTAL /DLL /MANIFEST
/MANIFESTFILE:"Debug\myengine.dll.intermediate.manifest" /MANIFESTUAC:"level='asInvoker'
uiAccess='false'" /DEBUG /PDB:"../Debug/myengine.pdb" /SUBSYSTEM:WINDOWS
/DYNAMICBASE:NO /IMPLIB:"../Debug/myengine.lib" /MACHINE:X86 kernel32.lib user32.lib
gdi32.lib winspool.lib comdlg32.lib advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib

".\Debug\myengine.obj"

".\Debug\plugin.obj"

```

".\Debug\storage_server.obj"

".\Debug\myengine.dll.embed.manifest.res"

]

Creating command line "link.exe

@d:\Lupascu\help\programming\cpp\best_plugin_example\myengi

ne\Debug\RSP0000076923892.rsp /NOLOGO /ERRORREPORT:PROMPT"

File Attachments

1) [plugin_example.7z](#), downloaded 326 times
