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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 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:\Program

m Files\Microsoft SDKs\Windows\v6.0A\Include" -I"C:\Program Files\Microsoft Visual Studio  
9.0\VC\Include" -I"C:\upp\SDL\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\_exports\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 msecs / file, duration = 985 msecs, parallelization 0%

Linking...

link -nologo -machine:I386 -pdb:"

C:/upp/out/MSC9.Debug.Debug\_full.Dll.Myengine\_exports\myengi ne.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\SDL\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

$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::~Plugin(void)" (?__1Plugin@MyEngine@@QAE@XZ) referenced
in function "public: void __thiscall MyEngine::Kernel::loadPlugin(class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const &)"
(?loadPlugin@Kernel@MyEngine@@QAE@ABV?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@std@Z)
$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::Plugin(class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const &)"
(?__0Plugin@MyEngine@@QAE@ABV?$basic_string@DU?$char_traits@D@std@@V?$allocator@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@@QAE@ABV?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@std@Z)
$blitz.obj : error LNK2019: unresolved external symbol "public: __thiscall
MyEngine::Plugin::Plugin(class MyEngine::Plugin const &)" (?__0Plugin@MyE
ngine@@QAE@ABV01@Z) referenced in function "public: __thiscall std::pair<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >
const ,class MyEngine::Plugin>::pair<class std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> > const &,class MyEngine:
:Plugin const &)"
(?__0$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.lib : 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\myengine.lib"
-Incremental:Yes -Debug -OPT:NOREF -Subsystem:Console -DL
-LIBPATH:"C:\Program Files\Microsoft SDKs\Windows\v6.0A\LIB" -LIBPATH:"C:\Program
Files\Microsoft Visual Studio 9.0\VC\LIB" -LIBPATH:"C:\UPP\
SDL\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.My
engine_Exports\myengine.pdb" -Out:"

```

```
C:\upp\out\MSC9.Debug.Debug_full.Dll.Myengine_exports\myengine.dll" -incremental:yes  
-debug -OPT:NOREF -subsy  
stem: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\sdl\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 folowing command lines:

Quote:Creating temporary file " d:\ILupascu\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:\ILupascu\help\programming\cpp\best_plugin_example\myengine\Debug\RSP0000016923892.rsp /nologo /errorReport:prompt"
```

Creating temporary file " d:\ILupascu\help\programming\cpp\best\_plugin\_example\myengine\Debug\TMP0000026923892.tmp " with contents

```
[  
2 /* ISOLATIONWARE_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\myengine\Debug\TMP0000026923892.tmp "
```

Creating temporary file " d:\ILupascu\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 /* ISOLATIONWARE_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\myengine\Debug\RSP0000076923892.rsp /NOLOGO /ERRORREPORT:PROMPT"
```

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#### File Attachments

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1) [plugin\\_example.7z](#), downloaded 285 times

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