
Subject: make_dll

Posted by [greg michael](#) on Wed, 10 Feb 2016 12:37:55 GMT

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Hi folks,

I'm going through the demo steps to compile C code into a DLL for IDL given here:

<http://www.exelisvis.com/Support/HelpArticlesDetail/TabId/219/ArtMID/900/ArticleID/13849/How-to-compile-a-64-bit-C-DLL-using-MVS-2010-and-run-it-in-IDL.aspx>

I installed "Visual Studio Express - desktop" - the closest I could find to the suggested "Visual Studio Express 2010".

The installation created a variety of different pre-configured command prompts. I got furthest with "Developer Command Prompt for VS2015", which leads to the following output:

```
C:\Program Files (x86)\Microsoft Visual Studio 14.0>cd "C:\Program Files\Exelis\IDL84\bin\bin.x86_64"
C:\Program Files\Exelis\IDL84\bin\bin.x86_64>idl.exe
IDL Version 8.4, Microsoft Windows (Win32 x86_64 m64). (c) 2014, Exelis Visual Information Solutions, Inc.
Installation number: 86717.
Licensed for use by: Freie Universitaet Berlin
```

```
IDL> cdir='c:\gm_dll\'
IDL> cd,cdir
IDL> make_dll,'testmodule','IDL_Load',input_dir=cdir,output_dir=cdir
cl -D_DLL -DMSWIN -DWIN32 -D_MT /nologo /I"C:\Program Files\Exelis\IDL84\external\include" /c "c:\gm_dll\testmodule.c" /Fo"testmodule_6736_CHARIKLO.obj"
testmodule.c
link /out:"testmodule_6736_CHARIKLO.dll" /nologo /nodefaultlib /dll @testmodule_6736_CHARIKLO.response_file /def:"testmodule_6736_CHARIKLO.def" "C:\Program Files\Exelis\IDL84\bin\bin.x86_64\idl.lib" msvcrt.lib kernel32.lib
Creating library testmodule_6736_CHARIKLO.lib and object testmodule_6736_CHARIKLO.exp
msvcrt.lib(dll_dllmain.obj) : error LNK2019: unresolved external symbol _initterm referenced in function "int __cdecl dllmainCRT_process_attach(struct HINSTANCE __* const,void * const)" (?dllmainCRT_process_attach@@YAHQEAUHINSTANCE__@@@QEA X@Z)
msvcrt.lib(dll_dllmain.obj) : error LNK2019: unresolved external symbol _initterm_e referenced in function "int __cdecl dllmainCRT_process_attach(struct HINSTANCE __* const,void * const)" (?dllmainCRT_process_attach@@YAHQEAUHINSTANCE__@@@QEA X@Z)
msvcrt.lib(dll_dllmain.obj) : error LNK2019: unresolved external symbol __telemetry_main_invoke_trigger referenced in function "int __cdecl dllmain_dispatch(str
```

```

uct HINSTANCE__ * const,unsigned long,void * const)" (?dllmain_dispatch@@YAHQEAU
HINSTANCE__@@@KQEAX@Z)
msvcrt.lib(dll_dllmain.obj) : error LNK2019: unresolved external symbol __teleme
try_main_return_trigger referenced in function "int __cdecl dllmain_dispatch(str
uct HINSTANCE__ * const,unsigned long,void * const)" (?dllmain_dispatch@@YAHQEAU
HINSTANCE__@@@KQEAX@Z)
msvcrt.lib(dll_dllmain.obj) : error LNK2001: unresolved external symbol __C_spec
ific_handler
msvcrt.lib(utility.obj) : error LNK2001: unresolved external symbol __C_specific
_handler
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _seh_filter_
dll referenced in function __sclr_dllmain_exception_filter
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _initialize_
narrow_environment referenced in function __sclr_dllmain_after_initialize_c
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _initialize_
onexit_table referenced in function __sclr_initialize_onexit_tables
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _register_on
exit_function referenced in function _onexit
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _execute_one
xit_table referenced in function __sclr_dllmain_uninitialize_c
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _crt_atexit
referenced in function _onexit
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _crt_at_quic
k_exit referenced in function at_quick_exit
msvcrt.lib(utility.obj) : error LNK2019: unresolved external symbol _cexit refer
enced in function __sclr_dllmain_uninitialize_c
msvcrt.lib(tncleanup.obj) : error LNK2019: unresolved external symbol __std_type
_info_destroy_list referenced in function "void __cdecl __sclr_uninitialize_type
_info(void)" (?__sclr_uninitialize_type_info@@YAXXZ)
msvcrt.lib(utility_desktop.obj) : error LNK2019: unresolved external symbol term
inate referenced in function __sclr_unhandled_exception_filter
msvcrt.lib(utility_desktop.obj) : error LNK2019: unresolved external symbol mems
et referenced in function __sclr_fastfail
testmodule_6736_CHARIKLO.dll : fatal error LNK1120: 16 unresolved externals
IDL>

```

but there are obviously problems in that compilation. I don't much understand what they relate to. Is anyone here who is familiar with this procedure able to help me out?

cheers,
Greg
