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Subject: Re: Call\_external

Posted by [Haje Korth](#) on Wed, 10 Mar 2004 17:20:50 GMT

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Paul,

the first thing you have to understand is that call\_external is an advanced subject. Thus you will have to spend some time on the subject. It seems you are trying to auto-create the dll. To me this is even more advanced. Start simple: Take sum\_array.c and compile it as dll. You need the switches -dll and -def:sum\_array.def, where sum\_array.def is the module definition file which contains your export. Study the compiler instruction on how to create the .def file. It will not work without it! Stick to the portable calling convention (if you actually open the .c file and read the information in the file you will understand what I mean). Once you create the dll, you can use sum\_array.pro to test it. By using the method above you can separate problems in execution from problems in creating the dll. I never use autoglue, but from your errors below I am wondering whether IDL finds your compiler at all???

Haje

"Dr Paul Ducksbury" <p.ducksbury@signal.qinetiq.com> wrote in message news:1078929414.412397@bengal...

> Thanks for that it looks easier than MS description of building shareable  
> objects and def files. Only one small problem i'm having now is that  
> all\_callext\_examples fails as it was unable to find some files. I assume  
its

> some problem so obvious its hitting me in the face, just cant see it.

>

> Anyone any ideas ?

>

> thanks

>

> IDL> all\_callext\_examples

> % Compiled module: ALL\_CALLEXT\_EXAMPLES.

> % Compiled module: SIMPLE\_VARS.

> Calling simple\_vars with the following arguments:

> B\_L        BYTE    =    2

> I\_L        INT     =    3

> L\_L        LONG    =    4

> F\_L        FLOAT   =   5.00000

> D\_L        DOUBLE =   6.0000000

> % Compiled module: GET\_CALLEXT\_EXLIB.

> The name specified is not recognized as an

> internal or external command, operable program or batch file.

> cl -D\_DLL -DWIN32 -D\_MT /nologo /I"E:\RSI\IDL60\external\include" /c

> "E:\RSI\IDL60\external\call\_external\C\incr\_struct.c"

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> /Fo"incr_struct_166_PDPC.obj"
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\call_
> external_examples_166_PDPC.exp
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\call_
> external_examples_166_PDPC.lib
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\incr_
> struct_166_PDPC.obj
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\simpl
> e_vars_166_PDPC.obj
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\strin
> g_array_166_PDPC.obj
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\sum_a
> rray_166_PDPC.obj
> Could Not Find
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\sum_2
> d_array_166_PDPC.obj
> % CALL_EXTERNAL: Error loading sharable executable.
>     Symbol: simple_vars, File =
>
C:\WINNT\Profiles\ducksbury\.idl\idl_6_0_Win32_x86_m32_f64\c ompile_dir\call_
> external_examples.dll
>     ERROR_MOD_NOT_FOUND
> % Error occurred at: SIMPLE_VARS      91
> E:\RS\IDL60\external\call_external\C\simple_vars.pro
> %     ALL_CALLEXT_EXAMPLES  58
> E:\RS\IDL60\external\call_external\C\all_callext_examples.p ro
> %     $MAIN$
> % Execution halted at: ALL_CALLEXT_EXAMPLES  58
> E:\RS\IDL60\external\call_external\C\all_callext_examples.p ro
>
> "Haje Korth" <haje.korth@jhuapl.edu> wrote in message
> news:c2n469$63v$1@aplcore.jhuapl.edu...
>> Paul,
>> Checkout the examples in the RS\IDL60\external directory. They are
pretty

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>> self-explanatory and are probably as descriptive as it will ever be. The  
>> only book on external routines that I know of, was published by Ronn  
Kling  
>> and specializes on DLMs. While DLM are extremely nice to handle within  
> IDL.  
>> They are not the easiest to implement.  
>>  
>> Cheers,  
>> Haje  
>>  
>>  
>> "Dr Paul Ducksbury" <p.ducksbury@signal.qinetiq.com> wrote in message  
>> news:1078919071.346356@bengal...  
>>> Is there a simple guide to using call\_external ? as i dont have the  
>> external  
>>> developepment manual that the help page suggests.  
>>>  
>>> Im using IDL 6.0 on PC (windows) with visual c++ 6.0  
>>>  
>>> thanks  
>>>  
>>> Paul  
>>>  
>  
>  
>

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