
Subject: Re: CALL_EXTERNAL and C++ code
Posted by [Mathieu Malaterre](#) on Tue, 02 Aug 2005 18:07:27 GMT
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Ok and the easy solution is to build you C++ library but then define the entry point with a C function:

```
extern "C"  
int IDL_STDCALL watershed( int argc, void* argv[] )
```

Sorry for the noise -again- :)
Mathieu

Mathieu Malaterre wrote:

> Sorry, I forgot to mention the compile lines:

```
>  
> $ c++ -o wtd_lg.o -l/usr/local/rsi/idl_6.1 -c wtd_lg.cpp  
> $ c++ -shared -o lib3D_wtd.so wtd_lg.o  
> $ c++ --version          c++ (GCC) 3.3.5 (Debian  
> 1:3.3.5-13)
```

```
>  
>  
> Mathieu
```

> Mathieu Malaterre wrote:

```
>  
>> Hello,  
>>  
>> I am trying to get an idl application that used to work on win32  
>> to work on my linux (debian) box. Unfortunately I am getting:  
>>  
>> % XMANAGER: Caught unexpected error from client application. Message  
>> follows...  
>> % CALL_EXTERNAL: Error loading sharable executable.  
>>           Symbol: watershed, File =  
>> /home/mathieu/Projects/FarSight/bin/bin/lib3D_wtd.so  
>>  
>> /usr/local/rsi/idl_6.1/bin/bin.linux.x86/libidl.so.6.1: undefined  
>> symbol: watershed  
>> % Execution halted at: WTDSEG      3207  
>> /home/mathieu/Projects/FarSight/FarSight.pro  
>> %           GUI_EVENT      8550  
>> /home/mathieu/Projects/FarSight/FarSight.pro  
>> %           XMANAGER_EVLOOP_STANDARD 478  
>> /usr/local/rsi/idl_6.1/lib/xmanager.pro  
>> %           XMANAGER      708  
>> /usr/local/rsi/idl_6.1/lib/xmanager.pro  
>> %           FARSIGHT      9253
```

```
>> /home/mathieu/Projects/FarSight/FarSight.pro
>> %          $MAIN$
>>
>>
>> If I checked for the symbol:
>> $ nm /home/mathieu/Projects/FarSight/bin/bin/lib3D_wtd.so | c++filt|
>> grep watershed
>> 0000519c T watershed(int, void**)
>>
>>
>> I am reading in parallel the document: External Development Guide
>> (edg.pdf), but there is no mention of problem *before* calling the
>> function.
>>
>> Does anyone knows what compile flags to use and which compiler to use
>> on linux, and if I can use shared lib ? I could not find much in the
>> newsgroup except:
>>
>> http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse\_thread/thread/57d81859e3d3a502/191ac3c2f11d2bb8
>>
>>
>> But again this refer to C not C++ which has a completely different
>> name mangling...
>>
>>
>> Thanks for your help,
>> Mathieu
```
