
Subject: Re: simple CALL_EXTERNAL

Posted by [Haje Korth](#) on Tue, 01 May 2007 11:52:43 GMT

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have you tried this under linux? If it works there, my guess is you forgot to export the symbol bmean. Haje

<skymaxwell@gmail.com> wrote in message

news:1177967940.895398.317470@u30g2000hsc.googlegroups.com.. .

> how call c - function from IDL for Windows

>

> for example example.cpp

>

> double bmean(float *array,int n)

> {

> double total=0.0;

> int i;

> for (i=0;i<n;i++) total+=(*array++);

> return (total/(double)n);

> }

>

> now i build example.dll

>

> now from idl

>

> idl> arr=randomu(s,1000000)*10000.0

> idl>mean=call_external("D:\WORK\idl\example\Debug

> \example.dll","bmean",arr, n_elements(arr),/d_value)

>

>

> i've got error - not found procedure

>

> CALL_EXTERNAL: Error loading sharable executable.

> Symbol: bmean, File = D:\WORK\idl\example\Debug

> \example.dll

>

> also i try with

> idl>mean=call_external("D:\WORK\idl\example\Debug\example.dll ","?

> bmean@@YANPAMH@Z",arr, n_elements(arr),/d_value)

>

> the same error

> i was try on both VC7.0 and VC6.0

>

> thanks

>

Subject: Re: simple CALL_EXTERNAL

Posted by skymaxwell@gmail.com on Tue, 01 May 2007 13:23:18 GMT

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as i can see there is two ways using CALL_EXTERNAL in IDL

1. without wrapped procedure. Only C function and CALL_EXTERNAL from IDL

2. with wrapped procedure. For it i need C-wrapper procedure and another C functions, and then CALL_EXTERNAL
in both ways i need create DLL from C source code

does somebody have simple examples for both ways ? (except C:\RSI\...\call_external\C)

thanks

Subject: Re: simple CALL_EXTERNAL

Posted by [Paul Sommer](#) on Wed, 02 May 2007 01:35:52 GMT

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On May 1, 7:23 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com> wrote:

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> 1. without wrapped procedure. Only C function and CALL_EXTERNAL from
> IDL
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> 2. with wrapped procedure. For it i need C-wrapper procedure and
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> does somebody have simple examples for both ways ? (except C:\RSI\...
> \call_external\C)
>
> thanks

Personally I find Randy Frank's EXTPROC function really nice and easy for accessing exported functions in pre-compiled dlls. Obviously this assumes you've already compiled to a dll. See the following IDL_Tools_63.zip archive in the Code Contrib. area on the ITT VIS website (Thanks to Ronn Kling for originally hosting pre-IDL 6.3 versions from his website):

<http://ittvis.com/codebank/search.asp?FID=431>

Best regards,
Paul
