## Subject: Re: simple CALL\_EXTERNAL Posted by Haje Korth on Tue, 01 May 2007 11:52:43 GMT View Forum Message <> Reply to Message

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++);</pre>
> 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 View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

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

- > 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

>

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

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