Subject: Help! pointer address return using idl_tools DLM (EXTPROC_DEFINE)
Posted by andy_capax on Thu, 11 Mar 2004 16:43:05 GMT
View Forum Message <> Reply to Message

Hi

I'm a newbie to Idl. I downloaded the idl_tools DLM library from Ronn Kling's website http://www.rlkling.com. I"m trying to access from idl the address of a float pointer returned by a function in C++.
In my C++ program I have:

float* cppfunc(int); //not part of any class

I get the output of the C++ program as sample.dll file using visual studio 6.0

In Idl I correspondingly use the call:

addr = EXTPROC_DEFINE("idlfunc", "sample.dll", "cppfunc", "p(i)",/CDECL)
;to get the address of the pointer since the documentation says " If
;the return value is a pointer, the
;memory address returned by the function will be placed in
;an IDL unsigned long and returned to the IDL application."

var = EXTPROC_DEREF(addr, FLOAT = 5)
;to dereference the pointer and copy the data pointed by it to an idl variable
;it is supposed to copy the 5 float members of the C++ array to var

My problem is this:
addr does not point to a valid memory address, but points to 1 or 0..thus the next step of dereferencing also fails.

I know that it is not a problem with the dll or any such, since returning a float or an int (not a pointer) works fine using this approach. I need to pass the address since its a large array and want to avoid writing my own DLM's for lack of skill.

Can anyone please help? I"m really stuck and dont know what to do..

Thanks all..

Subject: Re: Help! pointer address return using idl_tools DLM (EXTPROC_DEFINE)
Posted by mw vogel on Fri, 12 Mar 2004 11:15:48 GMT

anand wrote:

> Hi
>
> I'm a newbie to Idl. I downloaded the idl_tools DLM library from Ronn
> Kling's website http://www.rlkling.com. I"m trying to access from idl
> the address of a float pointer returned by a function in C++.
> In my C++ program I have:
>
> float* cppfunc(int); //not part of any class
>
> I get the output of the C++ program as sample.dll file using visual
> studio 6.0
>
> In Idl I correspondingly use the call:
>
> addr = EXTPROC_DEFINE("idlfunc", "sample.dll", "cppfunc",
> "p(i)",/CDECL)
> ;to get the address of the pointer since the documentation says " If
> ;the return value is a pointer, the
> ;memory address returned by the function will be placed in
> ;an IDL unsigned long and returned to the IDL application."
>

Ok, my 2 cents :

This _DEFINE call only sets up an internal IDL command that connects to your function in your DLL. To get valid output, you should actually use the call. Probably something along the lines of p = idlfunc(0) . Then use the DEREF to get the values from p.