Subject: Help! pointer address return using idl_tools DLM (EXTPROC_DEFINE)
Posted by andy_capax on Thu, 11 Mar 2004 16:43:05 GMT
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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..