Subject: Re: Is IDL-to-C-to-IDL call possible?
Posted by Keh-Cheng Chu on Tue, 14 Jan 2003 05:42:34 GMT
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In article <on65ssgxcq.fsf@cow.physics.wisc.edu>, Craig Markwardt wrote:
>
> Keh-Cheng Chu <kehcheng@quake.Stanford.EDU> writes:
>
>> I would like to build DLM's containing system routines that take
>> IDL functions as arguments like the built-in QSIMP(Func,A,B) does.
>> To evaluate the user-defined function Func, obviously the system
>> routine needs to make calls to the IDL interpreter. Are such
>> calls possible (the External Development Guide doesn't seem to
>> mention them)? Can someone show me a simple example?
>
> How about IDL_Execute() and IDL_ExecuteStr()?
>
> Good luck,
> Craig
>

These functions are described in the Callable IDL chpater of the
External Development Guide with the following stern warning:

... their use in code called by IDL via CALL_EXTERNAL or
a system routine (LINKIMAGE, DLM) is not supported and
is certain to corrupt and/or crash the IDL process.

Even if I manage to call them without crashing the IDL process,
I still don't see how I can execute an arbitrarily named user
function; it seems to me that some kind of function pointer is
needed here.

Maybe I should change my question to this: does anybody know
how QSIMP and many other built-in system routines that take
function arguments are implemented internally?

Thanks again,

Keh-Cheng