Subject: Re: Is IDL-to-C-to-IDL call possible?
Posted by Craig Markwardt on Tue, 14 Jan 2003 04:37:57 GMT
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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

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

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
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>

> How about IDL_Execute() and IDL_ExecuteStr()?

> > G

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