Subject: Calling IDL from Fortran called by IDL Posted by Kevin A. Park on Mon, 26 Nov 2001 22:28:37 GMT

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Hi.

I have an IDL GUI which sits on top of a calculation engine which is written in Fortran 90. Currently IDL accesses the calculation engine by calling C wrapper functions via CALL_EXTERNAL. These C wrappers then call Fortran routines. The system runs both on Solaris and Windows platforms. I am currently using IDL 5.4, but will upgrade to IDL 5.5 soon.

Some of the calculations in the Fortran take a long time, so what I would like to do is have IDL create a progress bar which can be updated from the Fortran. Having waded through the IDL External Development Guide, I have a few questions.

- 1. The only way of calling IDL common to both UNIX and Windows platforms is callable IDL, yes?
- 2. According to the External Development Guide, callable IDL can not be used from code that is called from IDL via CALL_EXTERNAL or LINKIMAGE. But can callable IDL be used in a dynamically loaded module (DLM)?
- 3. Does callable IDL always start a new IDL process (i.e. a new "virtual machine" to borrow Java terminology) or can it be used to access data and functions in an existing IDL process?
- 4. Is there any way of passing function pointers to IDL methods to a native compiled language such as C so that these routines could be called from the compiled language (e.g. C)? (In Java there is a way to use the Java-Native Interface (JNI) to accomplish just this sort of thing.)

Thanks for any help you can provide.

Kevin Park

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