
Subject: Re: Embedding IDL visualization routines in C/C++ apps

Posted by [davidf](#) on Wed, 17 Dec 1997 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Mark McGillion (mm@fs1.co.umist.ac.uk) writes:

- > I would like to know if it is possible to embed IDL/PV-Wave
- > visualization routines within a C/C++ application such that 2D/3D data
- > can be visualized easily, i.e. without having to
- > write the visualization routines in C/C++.

Yes, it is possible to embed IDL or PV-Wave routines within your C/C++ application. This is the whole purpose of the "callable" IDL interface. At least in the IDL case (and I presume PV-Wave as well) you will have to live with some limitations on how you interact with IDL. IDL was not designed to be a callable application. Rather, it was designed to be a stand-alone application. Thus, it has some restrictions on exactly how you interact with it. Often these restrictions are easily accommodated by calling programs.

- > For example, can this be done
- > by compiling IDL/PV-Wave routines into a DLL which could then be
- > distributed with the C/C++ application?

Again, the answer is yes, IDL can be incorporated into a DLL which can then be distributed with your application, but perhaps not in the way you hoped. IDL must be licensed separately. (You could, for example, obtain a run-time license for it.) This is often more expensive than people expect.

And the DLL you create will (at this time) include *ALL* of IDL, not just the 3-4 routines you wanted to use. This makes it a rather large DLL. I've heard RSI has plans to "modularize" IDL in the future, so you can load only that portion you really need, but I don't know when this might happen.

Cheers,

David

David Fanning, Ph.D.
Fanning Software Consulting
E-Mail: davidf@dfanning.com
Phone: 970-221-0438
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
