Subject: Re: passing parameters from base to base Posted by Pavel A. Romashkin on Tue, 03 Dec 2002 21:19:07 GMT View Forum Message <> Reply to Message

JD Smith wrote:

- < Snip-snip...
- > Suppose I
- > have 5 instances of a viewer running. Each little plug-in tool of the
- > viewer is a separate object which needs to contact a 'tvDraw' object
- > to get draw events. In your system, how does it go about doing that?
- > Well, if each tvDraw object had a unique ID, that would work. But how
- > do you distribute all those unique ID's?... and you're back in the same
- > boat again.

I agree with Stein Vidar, and I felt that this thread will inevidably end up as a singleton discussion. This is known to have happened before :-) In fact, most of my own chots at it were exactly using the singleton systems of various sorts. The cornerstone of singletons is in my opinion that there is only ONE official way in IDL to have anything at all visible at the global level - Common blocks. Other than that? Well, Functions and Procedures are also visible globally, and I used them too to avoid Common blocks (one example is at http://www.ainaco.com/idl/idl_library/sobj_new.pro). However, I'd say that a Common is just as ugly as that :-)

Anyway, having zeroed in on the central message manager (a Singleton object, or, for that matter, even a pointer - one example at http://www.ainaco.com/idl/idl library/single set.pro) I think the rest, particularly what JD is asking, is not all that difficult. For what I tried, I didn't care really about how the messages are passed: they just had a destination, and the message manager simply passed them along. If the destination didn't exist, well - too bad. Message just went unnoticed, to the dismay of the user :-)

More seriously, for my purposes it was sufficient to indicate the recepient of the message by the mouse click - the receving graphics window, per say. From then on, the output from the several data processing widget programs was directed to that target. Then, I wanted to compare that picture with another - just clicked on another target, and exchange data with it from then on. And if there was no valid viewer, a new one was created.

Not extremely flexible but it works.

And, again, one example of self-managing, self aware command line system using Common blocks is my little Display program, which is the key building block of all of my recent 2D data plotters. It has no messaging as such (its much too simple for needing it, as it has no modules like David's recent system) in it but handles the directing of data input by itself. Cheers,

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