Subject: Re: Pointer Type Question Posted by David Fanning on Sun, 27 Nov 2005 14:39:15 GMT

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IDLmastertobe writes:

- > I am implementing something that can keep a copy of original data and reuse
- > the original data later on.

- > if(size(ydata, /n dimensions) eq 3) then begin
- > if(!firsty eq 1) then begin
- > *yarr = ydata
- > !firsty=0
- > endif
- > ydata = smooth(*yarr, [1, !smo, !smo])
- > oyimage->SetProperty, data = ydata
- > endif

- > ydata has the original data I want to keep. After the first iteration,
- > ydata will be overwritten. Therefore, I am tyring to get ydata to be
- > copied by *yarr in the first iteration and afterwards I will "reload"
- > *yarr into ydata so that the original data will be used every time. since
- > I have no information in advance about the size of the ydata, I am using a
- > dynamic variable that can copy ydata regardless type and size. I am using
- > pointer, and I declare the *yarr point in a function that calls the above
- > procedure as follows:

>

> yarr = ptr new(/allocate heap)

>

- > but i get a error message "Pointer type required in this context: YARR."
- > Does anyone know why?

Mr IDLmasterobe, no one knows why. As a computer programmer it is your job to *find out* why. These are the kinds of problems computer programmers deal with 15-20 times a day. No one writes a program perfectly. (I came close once. but it was a five liner.) We all have to learn to debug what we have written.

So, what are the possibilities? (1) yarr is a pointer. This is unlikely, since IDL is complaining about it. (2) yarr is *not* a pointer. Then what is it? Have you looked? That might give you a clue to how it got to be something that surprises you. Can you find a place in your program flow where it *was* a pointer? Then what happens between where it was a pointer and what it is now? You might have to learn how to stop your program and step through it, so you can see how and when it changes from one thing to another.

My guess, just from observing your programming style from the past month or so, is that yarr is a undefined variable when it gets to this part of the program. If it is, then you have to ask yourself the question "how did it get to be that way?"

Did you make an assumption about the variable? Did you forget to pass it to the program? Did you misspell its name somewhere? The possibilities are nearly endless. But in the end, it is going to be a bug in your program (either in design or implementation) that needs to be fixed. If you are going to be a programmer, you are going to have to learn to do the fixing yourself.

Otherwise, you will *never* get a program working!:-)

Cheers,

David

--

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Pointer Type Question Posted by Benjamin Hornberger on Mon, 28 Nov 2005 14:43:41 GMT View Forum Message <> Reply to Message

David Fanning wrote:

- > that needs to be fixed. If you are going to be a programmer,
- > you are going to have to learn to do the fixing yourself.
- > Otherwise, you will *never* get a program working! :-)

>

I think what David is trying to say is that you should get a book about the basics of IDL. He is just too modest to recommend his own (I can recommend it, along with Liam Gumley's).

Benjamin