Subject: object oriented dilemma Posted by Jason Li on Mon, 09 Oct 2000 07:00:00 GMT

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Dear fellow IDL lovers,

If I want to write an image processing software using OOP method, I would normally define a structure in __define module:

```
PRO myProgram__define

struct = {imagePointer:Ptr_New()}

END
```

Traditionally, a pointer is used to take care of variable image size. Then load an image to self.imagePointer in the myProgram__init module.

```
hugeImage = bytarr(huge, huge)
self.imagePointer = Ptr_New(hugeImage, /no_copy)
```

Now in my METHOD modules, I have to perform an operation on line by line basis. I don't know how to get a line data out of this self.imagePointer without making a copy (dereferencing) of it first. My image size is rather large. I don't how to be more memory efficient.

Question: What is the solution to this?

thanks

Jason

>

Subject: Re: object oriented dilemma
Posted by davidf on Mon, 09 Oct 2000 07:00:00 GMT
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Nick Bower (bowern@ses.curtin.edu.au) writes:

- > i wonder if this will ever be addressed so we can discard the parentheses.
- > after all there couldn't be another meaning for,
- > line = *self.imagePointer[5,*]

Well, as a matter of fact, if you just rearranged that, it would be the 6th column and all the rows of the pointer array set to the value of line. :-)

self.imagePointer[5,] = line

Cheers,

David

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: object oriented dilemma

Posted by Nick Bower on Tue, 10 Oct 2000 02:25:33 GMT

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line = (*self.imagePointer)[5,*]

i wonder if this will ever be addressed so we can discard the parentheses. after all there couldn't be another meaning for,

line = *self.imagePointer[5,*]

could there?

nick

Subject: Re: object oriented dilemma

Posted by Mark Hadfield on Tue, 10 Oct 2000 03:05:34 GMT

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"Nick Bower" <bowern@ses.curtin.edu.au> wrote in message news:39E27E1D.CBF04991@ses.curtin.edu.au...

- line = (*self.imagePointer)[5,*] >>
- > i wonder if this will ever be addressed so we can discard the parentheses.
- > after all there couldn't be another meaning for,
- > line = *self.imagePointer[5,*]
- > could there?

No, but there could be another meaning for

```
line = *self.imagePointer[5]
```

Mark Hadfield m.hadfield@niwa.cri.nz http://katipo.niwa.cri.nz/~hadfield/ National Institute for Water and Atmospheric Research PO Box 14-901, Wellington, New Zealand

Hi! I'm a .signature virus! copy me into your .signature file to help me spread!

Subject: Re: object oriented dilemma
Posted by William Daffer on Fri, 27 Oct 2000 19:56:12 GMT
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Nick Bower

bowern@ses.curtin.edu.au> writes:

```
>> line = (*self.imagePointer)[5,*]
> 
> i wonder if this will ever be addressed so we can discard the parentheses.
> after all there couldn't be another meaning for,
> 
> line = *self.imagePointer[5,*]
> could there?
> 
> 
what if self.imagepointer = ptrarr(10,10) ?
```

whd

--

Ab hoc possum videre domum tuum.

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