Subject: Re: Problem of precedence with pointer and structure
Posted by David Fanning on Fri, 27 Jan 2006 16:29:50 GMT
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L. Testut writes:

>
> Here is my problem :
> ; If i define a is a 3 elements array of structure with two fields b
> and c
> ; each field is an array
> a=replicate({b:findgen(10),c:findgen(20)},3)
>
> ; and I want to replace the first field b with the constant value 0.5
> ; for the complete array structure, I write:
>
> IDL> a[*].(0)=0.5 ;or a[*].b=0.5 ; and it works
>
> ; Suppose i have now a 3 elements array of structure with two fields b
> and c
> ; each field is *pointer* to an array
>
> a=replicate({b:ptr_new(findgen(10)),c:ptr_new(findgen(20))}, 3)
>
> Is it possible to do the same replacement as above ???
>
> IDL> (*a[*].(0))=0.5 ;doesn't work
> % Expression must be a scalar in this context: <POINTER Array[3]>.
> % Execution halted at: $MAIN$ 1

Yes, I think that is a problem.

```
IDL> Help, a[*].b
   <Expression>    POINTER   = Array[3]
```

IDL doesn't allow you to do mathematical operations on pointer arrays:

```
IDL> *(a[*].b) = *(a[*].b) + 3
   Expression must be a scalar in this context: <POINTER   Array[3]>.
```

I think a loop is the only way around this.

Cheers,

David

P.S. If I'm not mistaken, I think I recommended that structure
solution. :-)

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