Subject: Re: Newbie Questions
Posted by Geoff Herbynchuk on Tue, 15 May 2001 17:17:58 GMT
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On Tue, 15 May 2001, Geoff Herbynchuk wrote:

```
Hi,
Was just wondering if IDL can have pointers to structures. I'm trying to
access a variable in the structure with:
if (*info).active_cursor EQ 1) then .....
And I keep getting an error which says "Expression must be a structure in
this context: <PtrHeapVar57>."
Does anyone know what I'm doing wrong?
Thanks,
Geoff Herbynchuk
Oh, oops...in the actual code, the brackets do match up correctly for that "if" statement when I get this error. I just made a typo
```

Subject: Re: Newbie Questions
Posted by Ben Tupper on Tue, 15 May 2001 18:51:21 GMT
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Geoff Herbynchuk wrote:

when writing this message.

```
    On Tue, 15 May 2001, Geoff Herbynchuk wrote:
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    >> access a variable in the structure with:
    >> if (*info).active_cursor EQ 1) then .....
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    >>
```

If the active_cursor tag represents the pointer within the structure, then you will want to dereference it as follows:

Hello,

```
if *(info.active_cursor) EQ 1 then .....
```

As JD has pointed out to the us pointer-challenged, you can also go the lazy route:

```
if *info.active_cursor EQ 1 then .....
```

The way you have written (*info).active_cursor indicates that info is a pointer to a structre that conatins the active_cursor rather than being a structure containing a field defined as pointer.

Ben

Ben Tupper 248 Lower Round Pond Road POB 106 Bristol, ME 04539

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Subject: Re: Newbie Questions
Posted by Craig Markwardt on Tue, 15 May 2001 19:21:41 GMT
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Geoff Herbynchuk qherbyn@irus.rri.on.ca writes:

```
    Hi,
    Was just wondering if IDL can have pointers to structures. I'm trying to
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    this context: <PtrHeapVar57>."
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```

Umm, are you sure that INFO points to a structure? I tried it and it worked fine. (see below). Why not put a "HELP, *INFO, /STRUCT" right before this statement and see what pops up?

```
IDL> struct = {active_cursor: 1}
```

Subject: Re: Newbie Questions
Posted by Geoff Herbynchuk on Thu, 17 May 2001 12:15:06 GMT
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Thanks for the help guys, got that problem fixed. I'm hoping you can help me with one more thing with IDL pointers.
When we do something like:

foo_ptr = ptr_new(foo)

foo_ptr points to a memory location in the heap memory that contains foo's value, correct? So, am I safe to assume it copys whatever the value of foo is into the heap variable that foo_ptr is pointing too? And, if we do:

bar_ptr = ptr_new(bar, /no_copy)

bar_ptr will now just point to the memory location where bar is stored (not copy it to a heap location)? We can then update the bar, or the components of bar(if bar is a structure) by dereferencing bar_ptr, right? For example:

*bar_ptr.name = 'Geoff'

Thanks for everyone's help. I've only worked with pointers in C/C++ before, and I'm getting the impression that these don't work exactly the same way. =)

Geoff Herbynchuk