

---

Subject: Re: Calling data from a structure of pointers?

Posted by [Jonathan Greenberg](#) on Fri, 11 Mar 2005 17:16:10 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi all -- looks like I had been doing this is a bit wrong -- it did end up working right -- \*structure.pointer[x] was what I needed (I didn't include the [] it turns out)...

--j

On 3/10/05 10:57 PM, in article d0rfgv\$d6v\$1@defalla.upc.es, "Antonio Santiago" <d6522117@est.fib.upc.es> wrote:

> Jonathan Greenberg wrote:  
>  
>> How do I retrieve the data the pointers are referring to?  
>  
> pStr is pointer to a structure variable. This strucutre has 2 pointer  
> fields.  
>  
> pStr = PTR\_NEW(  
> {  
> a: PTR\_NEW(10),  
> b: PTR\_NEW(INDGEN(3))  
> })  
>  
>  
> pStr - Pointer variable to structure stored in HEAP memory.  
> IDL> help, pStr  
> PSTR        POINTER = <PtrHeapVar6>  
>  
> \*pStr - The content that pStr points to, that is, the structure  
> stored in HEAP memory.I  
> IDL> help, \*pStr, /STRUCT  
> \*\* Structure <1f06f8>, 2 tags, length=8, data length=8, refs=1:  
>    A        POINTER <PtrHeapVar4>  
>    B        POINTER <PtrHeapVar5>  
>  
> (\*pStr).a - First "get" the strucutre and then access to the firts  
> pointer field 'a'.  
> IDL> help, (\*pStr).a  
> <Expression>    POINTER = <PtrHeapVar4>  
>  
> (\*(\*pStr).a) - The same as above but obtain the content that 'a'  
> points (10).  
> IDL> help, (\*(\*pStr).a)  
> <PtrHeapVar4>    INT     =     10

```
>
> And the same for 'b' field:
> IDL> help, (*pStr).b
> <Expression>  POINTER  = <PtrHeapVar5>
> IDL> help, (*(*pStr).b)
> <PtrHeapVar5>  INT      = Array[3]
>
>
> IDL> arr = *(*pStr).b
> IDL> print, arr
>     0    1    2
>
>
>
```

---