
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.
> 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
>
>
>
```
