
Subject: Re: Calling data from a structure of pointers?
Posted by [Antonio Santiago](#) on Fri, 11 Mar 2005 06:57:35 GMT
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Jonathan Greenberg wrote:

> How do I retrieve the data the pointers are referring to?

pStr is pointer to a structure variable. This structure 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 structure and then access to the first 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
