
Subject: Re: array of pointers inside a structure
Posted by [Antonio Santiago](#) on Fri, 10 Jun 2005 18:16:01 GMT
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Francois L. wrote:

> Hello,
>
> I am defining a structure:
>
>> a = 5
>> struct = {A:a, B:intarr(a),C:ptrarr(a)}
>
>
> Further, I want the first element of the array of pointers (C[0]) to be an
> array of 5x5 elements.
>
> How do I create it ?
>
> Thank you,
>
> François Leduc
>
>

```
struct = {A:a, B:intarr(a),C:ptrarr(a)}
```

'struct' is a STRUCT.

'struct.c' is an array of pointers.

'struct.c[0]' is the first element of the array of pointer.

struct.c[0] = PTR_NEW(INTARR(5,5)) Now the first element of the
pointer array (a pointer), points to an integer array.

```
IDL> a=5  
IDL> struct = {A:a, B:intarr(a),C:ptrarr(a)}  
IDL> struct.c[0] = PTR_NEW( INTARR(5,5) )  
IDL> help, struct.c[0]  
<Expression>  POINTER  = <PtrHeapVar2>  
IDL> help, *struct.c[0]  
<PtrHeapVar2> INT      = Array[5, 5]  
IDL>
```

Also you can create a intarr variable and point c[0] to it:

```
m = INTARR(5,5)  
struct.c[0] = PTR_NEW(m)
```

But remember that PTR_NEW makes a copy of your data into the HEAP

memory. The /NO_COPY keyword creates a copy into HEAP memory and then undefines the original variable.

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