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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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Subject: Re: array of pointers inside a structure  
Posted by [Robert Moss](#) on Fri, 10 Jun 2005 18:21:17 GMT  
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Francois L. wrote:

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>
```

You probably want to use CREATE\_STRUCT(), e.g.

```
a = 5  
c = PTRARR( a, /ALLOCATE_HEAP )  
*c[ 0 ] = INTARR( 5, 5 ) ;; You did not specify what kind of array here
```

```
struct = CREATE_STRUCT( [ 'A', 'B', 'C' ], a, INTARR( a ), c )
```

Robert Moss

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