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Subject: When Ptr\_New doesn't work  
Posted by [badenes](#) on Tue, 22 Jan 2002 11:42:25 GMT  
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I have the following problem:

```
rCoefficients=PtrArr(nElems)
FOR i=0, nElems-1 DO BEGIN
  rCoefficients[i]=Ptr_New(PtrArr(elems[i]))
ENDFOR
```

since elems is a vector of integers, each element i of  
rCoefficients is a pointer to an array of elems[i] pointers.  
But, for some reason,

```
((*rCoefficients[j])[k]) = Ptr_New(FltArr(2), /NO_COPY)
```

doesn't work. k and j are within the allowed range, of course, and  
((\*rCoefficients[j])[k]) is a null pointer, as expected from the  
initialization above. Ptr\_New is supposed to allocate memory for the  
specified pointer to store an array of 2 floats, but I get the message

Expression must be named variable in this context: <POINTER  
(<NullPointer>)>.

I must be doing something wrong. Can you help?

Thanks,  
Carles

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Subject: Re: When Ptr\_New doesn't work  
Posted by [Pavel A. Romashkin](#) on Wed, 23 Jan 2002 18:07:14 GMT  
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I think the key here is, anything in parenthesis gets \*evaluated\* and as  
such is an expression. And it is not really surprising that one is not  
allowed to assign a value to an expression. This is the strength of IDL  
- it creates temporary variables as expressions, and allows to use them  
just like named variables. Unlike, say, IGOR Pro that requires you to  
define a named variable to even plot it.

Pavel

Richard Younger wrote:

```
>
> This seems very strange to me. I think of parenthesis as not modifying
> their arguments at all, since they should (in my own little idl, er,
```

> ideal world) change only precedence and not value.

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Subject: Re: When Ptr\_New doesn't work

Posted by [John-David T. Smith](#) on Wed, 23 Jan 2002 19:13:12 GMT

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"Pavel A. Romashkin" wrote:

>

> I think the key here is, anything in parenthesis gets \*evaluated\* and as  
> such is an expression. And it is not really surprising that one is not  
> allowed to assign a value to an expression. This is the strength of IDL  
> - it creates temporary variables as expressions, and allows to use them  
> just like named variables. Unlike, say, IGOR Pro that requires you to  
> define a named variable to even plot it.  
>

Right. Another example of parentheses forming an expression is:

```
IDL> a=(b=1)
```

which is the only way to do chained assignments.

But as for the necessity of this, compare Perl, where things like:

```
($first, $second, @rest)=make_list();
```

are allowed. But heh, it's IDL.

JD

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