
Subject: Re: indexing a structure in a list

Posted by [Helder Marchetto](#) on Wed, 05 Feb 2014 19:42:35 GMT

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On Wednesday, February 5, 2014 7:05:02 PM UTC+1, Mike Galloy wrote:

> On 2/5/14, 10:52 AM, Craig Markwardt wrote:

>

>> On Wednesday, February 5, 2014 11:36:09 AM UTC-5, Helder wrote:

>

>>> Hi,

>

>>>

>

>>> I've got the feeling this should work, but for some reason it isn't.

>

>>>

>

>>> So here is some code to test the problem with the errors describe in it:

>

>>>

>

>>>

>

>>>

>

>>> PRO testStrutRef

>

>>> Compile_Opt idl2

>

>>> a = list(findgen(10), /extract)

>

>>> a[4] = {value:3.0}

>

>>> help, a[4], /struct

>

>>> ;a[4].value = 4.0 ;won't work: % Attempt to store into an expression: >

>

>>> ;(a[4]).value = 4.0 ;won't work: % Attempt to store into an expression: Structure reference.

>

>>> ;((a)[4]).value = 4.0 ;won't work: % Attempt to store into an expression: Structure reference.

>

>>> struct = a[4]

>

>>> struct.value = 4.0

>

>>> a[4] = struct ;works, but not really straight forward...

>

>>> print, a

```
>
>>> END
>
>>>
>
>>> It seems like I can't address a structure element of a list directly.
>
>>> Did I misplace my parenthesis? Is there a less cumbersome workaround?
>
>>
>
>> Seems like a flat-out bug to me. List elements should be "lvalues," as they say in the compile
business.
>
>> Craig
>
>>
>
>
>
>
> Yes, seems like a bug. Note that index notation works:
>
>
>
> IDL> print, (a[4]).(0)
>
>     3.00000
>
>
>
> Mike
>
> --
>
> Michael Galloy
>
> www.michaelgalloy.com
>
> Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
>
> Research Mathematician
>
> Tech-X Corporation
```

The index notation works only for printing, but not for assigning. But printing works also for
print, a[4].value

By the way:

IDL> !version

```
{  
  ARCH: "x86_64",  
  OS: "Win32",  
  OS_FAMILY: "Windows",  
  OS_NAME: "Microsoft Windows",  
  RELEASE: "8.3",  
  BUILD_DATE: "Nov 15 2013",  
  MEMORY_BITS: 64,  
  FILE_OFFSET_BITS: 64  
}
```

Cheers,
Helder
