
Subject: Referencing structure inline

Posted by [TimB](#) on Tue, 09 Dec 2014 04:57:36 GMT

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Perhaps a fundamental misunderstanding on my part but I'm wondering if there is a way of making this work:

```
IDL> z = {x:1,y:2}
IDL> z.x
1
IDL> ({x:1,y:2}).x
% Object reference type required in this context: <STRUCT Array[1]>.
```

I have a function which returns a structure and I would like to use it in this manner:

```
z = (myfunc(input)).x
```

However I get the same error as the example above. The following works

```
struct = myfunc(input)
z = struct.x
```

Can it be done in one line?

Subject: Re: Referencing structure inline

Posted by [Heinz Stege](#) on Tue, 09 Dec 2014 08:42:50 GMT

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Seems to be a bug in your IDL version. The following works in IDL 8.0:

```
IDL> help,file_info(!dir)
** Structure FILE_INFO, 21 tags, length=64, data length=63:
NAME      STRING   'C:\idl\idl80'
EXISTS    BYTE     1
READ      BYTE     1
WRITE      BYTE     1
EXECUTE    BYTE     1
REGULAR    BYTE     0
DIRECTORY  BYTE     1
BLOCK_SPECIAL BYTE    0
CHARACTER_SPECIAL
              BYTE     0
NAMED_PIPE  BYTE     0
SETUID     BYTE     0
SETGID     BYTE     0
SOCKET     BYTE     0
STICKY_BIT  BYTE     0
```

```
SYMLINK      BYTE      0
DANGLING_SYMLINK
              BYTE      0
MODE        LONG      511
ATIME       LONG64    1418112222
CTIME       LONG64    1299161262
MTIME       LONG64    1349551389
SIZE        LONG64    0
IDL> print,(file_info(!dir)).name
C:\idl\idl80
IDL> print,(file_info(!dir)).ctime
1299161262
IDL> print,!version
{ x86 Win32 Windows Microsoft Windows 8.0.1 Oct 5 2010 32
64}
```

Subject: Re: Referencing structure inline

Posted by [Helder Marchetto](#) on Tue, 09 Dec 2014 10:55:01 GMT

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On Tuesday, December 9, 2014 9:42:57 AM UTC+1, Heinz Stege wrote:

> Seems to be a bug in your IDL version. The following works in IDL 8.0:

```
>
> IDL> help,file_info(!dir)
> ** Structure FILE_INFO, 21 tags, length=64, data length=63:
>   NAME      STRING  'C:\idl\idl80'
>   EXISTS    BYTE    1
>   READ      BYTE    1
>   WRITE     BYTE    1
>   EXECUTE   BYTE    1
>   REGULAR   BYTE    0
>   DIRECTORY BYTE    1
>   BLOCK_SPECIAL BYTE  0
>   CHARACTER_SPECIAL
                  BYTE    0
>   NAMED_PIPE BYTE    0
>   SETUID    BYTE    0
>   SETGID    BYTE    0
>   SOCKET    BYTE    0
>   STICKY_BIT BYTE    0
>   SYMLINK   BYTE    0
>   DANGLING_SYMLINK
                  BYTE    0
>   MODE      LONG    511
>   ATIME    LONG64  1418112222
>   CTIME    LONG64  1299161262
>   MTIME    LONG64  1349551389
```

```
> SIZE      LONG64          0
> IDL> print,(file_info(!dir)).name
> C:\idl\idl80
> IDL> print,(file_info(!dir)).ctime
>           1299161262
> IDL> print,!version
> { x86 Win32 Windows Microsoft Windows 8.0.1 Oct 5 2010   32
> 64}
```

Hi,

If this is a bug then it's still out there. Implied print seems to be the problem:

```
IDL> ({x:1,y:2}).x
% Object reference type required in this context: <STRUCT  Array[1]>.
% Execution halted at: $MAIN$
IDL> print, ({x:1,y:2}).x
1
IDL> !version
{
  "ARCH": "x86_64",
  "OS": "Win32",
  "OS_FAMILY": "Windows",
  "OS_NAME": "MicrosoftWindows",
  "RELEASE": "8.4",
  "BUILD_DATE": "Sep272014",
  "MEMORY_BITS": 64,
  "FILE_OFFSET_BITS": 64
}
```

In other words, such indexing does not work with implied print.

I also tried this with a function:

```
function testPrintFunction
return, {x:1,y:2}
end
```

```
IDL> (testPrintFunction()).x
% Object reference type required in this context: <STRUCT  Array[1]>.
% Execution halted at: $MAIN$
IDL> print, (testPrintFunction()).x
1
```

Cheers,
Holder

Subject: Re: Referencing structure inline

Posted by [Helder Marchetto](#) on Tue, 09 Dec 2014 10:56:55 GMT

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On Tuesday, December 9, 2014 11:55:02 AM UTC+1, Helder wrote:

> On Tuesday, December 9, 2014 9:42:57 AM UTC+1, Heinz Stege wrote:

>> Seems to be a bug in your IDL version. The following works in IDL 8.0:

>>

>> IDL> help,file_info(!dir)

>> ** Structure FILE_INFO, 21 tags, length=64, data length=63:

>> NAME STRING 'C:\idl\idl80'

>> EXISTS BYTE 1

>> READ BYTE 1

>> WRITE BYTE 1

>> EXECUTE BYTE 1

>> REGULAR BYTE 0

>> DIRECTORY BYTE 1

>> BLOCK_SPECIAL BYTE 0

>> CHARACTER_SPECIAL

>> BYTE 0

>> NAMED_PIPE BYTE 0

>> SETUID BYTE 0

>> SETGID BYTE 0

>> SOCKET BYTE 0

>> STICKY_BIT BYTE 0

>> SYMLINK BYTE 0

>> DANGLING_SYMLINK

>> BYTE 0

>> MODE LONG 511

>> ATIME LONG64 1418112222

>> CTIME LONG64 1299161262

>> MTIME LONG64 1349551389

>> SIZE LONG64 0

>> IDL> print,(file_info(!dir)).name

>> C:\idl\idl80

>> IDL> print,(file_info(!dir)).ctime

>> 1299161262

>> IDL> print,!version

>> { x86 Win32 Windows Microsoft Windows 8.0.1 Oct 5 2010 32

>> 64}

>

>

> Hi,

> If this is a bug then it's still out there. Implied print seems to be the problem:

>

> IDL> ({x:1,y:2}).x

> % Object reference type required in this context: <STRUCT Array[1]>.

> % Execution halted at: \$MAIN\$

> IDL> print, ({x:1,y:2}).x

```
>      1
> IDL> !version
> {
>   "ARCH": "x86_64",
>   "OS": "Win32",
>   "OS_FAMILY": "Windows",
>   "OS_NAME": "MicrosoftWindows",
>   "RELEASE": "8.4",
>   "BUILD_DATE": "Sep272014",
>   "MEMORY_BITS": 64,
>   "FILE_OFFSET_BITS": 64
> }
>
> In other words, such indexing does not work with implied print.
>
> I also tried this with a function:
>
> function testPrintFunction
> return, {x:1,y:2}
> end
>
> IDL> (testPrintFunction()).x
> % Object reference type required in this context: <STRUCT Array[1]>.
> % Execution halted at: $MAIN$
> IDL> print, (testPrintFunction()).x
>      1
>
> Cheers,
> Helder
```

Here is a link with some explanation. I'm sure it falls under the same problem pointed out by Chris T.

<https://groups.google.com/d/msg/comp.lang.idl-pvwave/rbleuyI 6GfA/vli09AwC0rEJ>

Cheers,
Helder
