
Subject: printing structure values on one line
Posted by [knight](#) on Wed, 01 Jul 1992 14:00:33 GMT
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For an application that wants card images (Lowtran), I want to print
the values of a structure
without the {}'s
and
on one line.

Here's an example of the problem.

```
IDL> t={a:0.,b:0.,c:0.}
IDL> print,t
{  0.00000  0.00000  0.00000}
IDL> print,t,format='(3f10.2)'
    0.00
    0.00
    0.00
```

I'd like to print the values on one line, not 3 for example.
Does anybody have any ideas?

Fred

--

=Fred Knight (knight@ll.mit.edu) (617) 981-2027
C-483\MIT Lincoln Laboratory\244 Wood Street\Lexington, MA 02173

Subject: Re: printing structure values on one line
Posted by [knight](#) on Wed, 01 Jul 1992 14:24:22 GMT
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In article <1992Jul1.140033.20864@ll.mit.edu>, knight@ll.mit.edu (Fred Knight) writes:

```
|>
|> For an application that wants card images (Lowtran), I want to print
|> the values of a structure
|> without the {}'s
|> and
|> on one line.
|>
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|> IDL> print,t
|> {  0.00000  0.00000  0.00000}
|> IDL> print,t,format='(3f10.2)'
|>    0.00
```

```
|> 0.00
|> 0.00
|>
```

Here's one solution:

```
IDL> print,string(t,format='(3f10.2)')
    0.00    0.00    0.00
```

However, I still think the print should give the same result.

Fred

--

=Fred Knight (knight@ll.mit.edu) (617) 981-2027
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Subject: Re: printing structure values on one line
Posted by [knight](#) on Wed, 01 Jul 1992 14:55:47 GMT
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In article <1992Jul1.142422.21291@ll.mit.edu>, knight@ll.mit.edu (Fred Knight) writes:

```
|>
|> In article <1992Jul1.140033.20864@ll.mit.edu>, knight@ll.mit.edu (Fred Knight) writes:
```

```
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|> |> { 0.00000 0.00000 0.00000}
|> |> IDL> print,t,format='(3f10.2)'
|> |> 0.00
|> |> 0.00
|> |> 0.00
|> |>
```

|> Here's one solution:

```
|> IDL> print,string(t,format='(3f10.2)')
|> 0.00 0.00 0.00
```

```
|>
```

|> However, I still think the print should give the same result.

```
|>
```

But there's a bug in string! Count the characters in the second and third fields: there are 11 not 10! The first field is correct but the rest have one extra blank.

Fred

--

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Subject: Re: printing structure values on one line
Posted by [dit](#) on Wed, 01 Jul 1992 18:26:34 GMT
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In article <1992Jul1.140033.20864@ll.mit.edu>, knight@ll.mit.edu (Fred Knight) writes:

>
> For an application that wants card images (Lowtran), I want to print
> the values of a structure
> without the {}'s
> and
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>
> Here's an example of the problem.
>
> IDL> t={a:0.,b:0.,c:0.}
> IDL> print,t
> { 0.00000 0.00000 0.00000}
> IDL> print,t,format='(3f10.2)'
> 0.00
> 0.00
> 0.00
>
> I'd like to print the values on one line, not 3 for example.
> Does anybody have any ideas?

Yes, try this:

```
IDL> print, t, format='($, f10.2)'
```

The \$ will suppress the newline implied by the closing parenthesis.
Hope this helps.

Karl-Heinz

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Subject: Re: printing structure values on one line
Posted by [jdlb](#) on Thu, 02 Jul 1992 03:24:34 GMT
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knight@ll.mit.edu (Fred Knight) writes:

```
|>  
|> For an application that wants card images (Lowtran), I want to print  
|> the values of a structure  
|> without the {}'s  
|> and  
|> on one line.
```

You can

```
IDL> print, t, format='(3f10.2,$)' & print ;$ means no carriage return.
```

Or simply

```
IDL> print, t.a, t.b, t.c
```

If you don't know the number of tags, use `N_TAGS(t)` to find it and use the `STRING` procedure in an iterative loop:

```
IDL> text = "  
IDL> for i=0,n_tags(t)-1 do text = text+string(t.(i))  
IDL> print,text  
0.00000 0.00000 0.00000
```

--Jeff
