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Subject: Re: number of decimals?

Posted by [JD Smith](#) on Thu, 09 Dec 2004 15:23:27 GMT

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On Thu, 2004-12-09 at 08:56 +0000, Christopher Lee wrote:

> In article <1102567764.693437.32940@c13g2000cwb.googlegroups.com>,

> "Unknown" <ytyourclothes@p.zapto.org> wrote:

>

>> ...

>> IDL> printf,unit,f,format='(10f9.2)'

>> but that'll introduce additional spaces wherever a number is smaller

>> than 10000. So a typical line might look like this: 123.45 678.23

>> 1.23 12345.67 ... etc

>> But what I want is

>> 123.45 678.23 1.23 12345.67 ...

>> What I'm trying to do would be written in C somewhat like this: "%.2f

>> %.2f %.2f", i.e. a floating point number with two decimals.

>> ...

>> Y. T.

>

> No tricks, but you can use the C format codes in IDL

>

> f=randomn(seed, 10,10)

> print, format='(10(%%"0.5f "))',f[0,\*]

>

> That will write out floating point numbers with 5 decimal places and a

> single space between each number. Your emacs loving

> friends will disown you for breaking their copy-rectangle-to-register,

> but I think it's what you want.

For most versions of IDL, your example doesn't work works because 6 is the default number of decimal places for "natural length" floats, which is all the "%0.5" requests (i.e. you could have written %0.100). It's the same with normal format codes, in IDL 6.0:

```
IDL> print,FORMAT='(2(F0.2,;," "))',!PI,!PI^4
3.141593 97.409103
```

Starting with IDL6.1, IDL finally respects width "0" formats:

IDL 6.1:

```
IDL> print,FORMAT='(2(F0.2,;," "))',!PI,!PI^4
3.14 97.41
```

I hadn't appreciated that you could mix FORTRAN style and C-style format codes, which could be very useful.

JD

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