
Subject: Re: Double precision

Posted by [David Fanning](#) on Thu, 19 Mar 2009 04:32:29 GMT

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plim.dreaming@gmail.com writes:

> Ok, this is probably dumb but I need help with it.
> So i'm reading in some data which was in string format, several
> columns of data, and the data in one of the columns is getting
> truncated, rounded off. I want more significant figures.
> I have:
> pixmag = reform(double(dbwork[1,*]))
> dbwork is the original data, it has outputs such as 100.261787
> pixmag, however, rounds that off to 100.26179 which is causing errors.
> So how do I bump this up to 14 decimal places? Where do I put the
> "D"??

What evidence do you have that the numbers are being
"rounded off"?

```
IDL> str = '6.1234567890'  
IDL> num = double(str)  
IDL> print, num, format='(F12.10)'  
6.1234567890
```

However,

```
IDL> print, num  
6.1234568
```

Is the default format of the PRINT command your problem?

This is always a useful article to read:

http://www.dfanning.com/math_tips/sky_is_falling.html

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
