
Subject: Re: problem string from double missing digits
Posted by [K. Bowman](#) on Thu, 11 Sep 2003 13:24:59 GMT
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In article <bjpqp2\$fhrl\$1@zam602.zam.kfa-juelich.de>,
Reimar Bauer <R.Bauer@fz-juelich.de> wrote:

```
> Hi all,  
>  
> did someone know what here is going on.  
>  
> IDL> d = 98046763.617D  
> IDL> s = string(d)  
> IDL> PRINT,s  
>      98046764.  
> IDL> HELP,s  
> S      STRING   = '      98046764.'  
>  
> Where are the digits ????
```

The default (free-form) formats are G13.6 for FLOATs and G16.8 for DOUBLES. If you need more places to the right of the decimal point, you have to use an explicit format. (Building IDL Applications, v. 5.6, p. 234)

"G - Use F or E format depending on the magnitude of the value being processed."

```
IDL> d = 98046763.617D  
IDL> print, d, FORMAT = "(G16.8)"  
      98046764.  
IDL> print, d, FORMAT = "(F20.8)"  
      98046763.61700000  
IDL> print, d, FORMAT = "(E20.10)"  
      9.8046763617E+07
```

Ken
