

---

Subject: Re: Specify the degree of accuracy of a floating point number  
Posted by [Allan Whiteford](#) on Thu, 22 Feb 2007 13:05:44 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

loknath wrote:

> Hi  
> Is there a way to convert a single precision or double precision  
> floating point number to an accuracy of specified decimal places? In  
> other words, if I want to write 0.268954 or 233.256 to an accuracy of  
> 2 decimal places, i.e. 0.27 and 233.26, is there a way to do it?  
> Thanks  
>

Loknath,

As well as David's suggestion you could look at the format keyword of  
string() and print.

e.g.

```
IDL> number=0.268954
IDL> str=string(number,format='(F0.2)')
IDL> print,str
0.27
IDL> print,number,format='(F0.2)'
0.27
```

similarly:

```
IDL> number=233.256
IDL> str=string(number,format='(F0.2)')
IDL> print,str
233.26
IDL> print,number,format='(F0.2)'
233.26
```

Note that support for F0.N is fairly recent (doesn't work in 6.0, does  
work in 6.2 - don't have 6.1 handy to test).

Thanks,

Allan

---