
Subject: Re: Specify the degree of accuracy of a floating point number

Posted by [loknath](#) on Thu, 22 Feb 2007 18:57:15 GMT

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On Feb 22, 11:28 am, David Fanning <n...@dfanning.com> wrote:

> Brian Larsen writes:

>> Just to add more to the mix here:

>

>> I use the solarsoft routine round_off.pro (I will put it inline as its

>> short) to do this, seems to work well and its already written, which I

>> always like.

>

> To get this to work (I don't have the DATATYPE function), I changed

> this case statement:

>

>> case datatype(num) of

>> 'BYT': x = byte(x)

>> 'INT': x = fix(x)

>> 'LON': x = long(x)

>> 'DOU': x = double(x)

>> 'FLO': x = float(x)

>> endcase

>

> To this:

>

> case Size(num, /TName) of

> 'BYTE': x = byte(x)

> 'INT': x = fix(x)

> 'LONG': x = long(x)

> 'DOUBLE': x = double(x)

> 'FLOAT': x = float(x)

> endcase

>

> A pretty harmless change, it seems to me. Then I tried the

> program:

>

> IDL> a = 432.49584738273845D

> IDL> print, round_off(a, 0.0000001)

> 2.9991178

>

> Huh!? What did I do wrong?

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

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- > Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

thank you,
all of you for the great suggestions.
Loknath
