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.
> Fanning Software Consulting, Inc.

> 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
