Subject: round to x number of decimals within floating point value?
Posted by Snow53 on Thu, 13 Jan 2011 19:29:29 GMT

I need to round the values within a file to three decimal places. For
example, 0.00053335 would become 0.001.
I also have many NaNs within the file.

Any suggestions?

Thanks!

Subject: Re: round to x number of decimals within floating point value?
Posted by David Fanning on Fri, 14 Jan 2011 15:33:33 GMT

Kenneth P. Bowman writes:

> The equality test is unnecessary, so you can write
>
>   goodval = where(finite(array), count)
>
> to find the good values and
>
>   badval = where(~finite(array), count)
>
> to find the bad values. And of course you can do both
> with a single WHERE and appropriate keywords.

Yes, of course, but with the usual quibbles about
making your programs so cryptic newbies can't figure
them out. :-)

In this case, if you know what "finite" means, you
are good to go.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: round to x number of decimals within floating point value?
Posted by omar ali on Tue, 22 Dec 2015 21:17:02 GMT
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> I need to round the values within a file to three decimal places. For
> example, 0.00053335 would become 0.001.
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> Any suggestions?
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> Thanks!

Hi there,
    I have gone through the messages and i wonder there is a solution to conver 0.00053335 to
0.001. Indeed, i have a number (0.2345678)and i want it to be with 2 digits after the decimal

Thanks in advance

Subject: Re: round to x number of decimals within floating point value?
Posted by Craig Markwardt on Wed, 23 Dec 2015 15:57:48 GMT
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On Tuesday, December 22, 2015 at 4:17:06 PM UTC-5, omar ali wrote:

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>> example, 0.00053335 would become 0.001.
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> Hi there,
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0.001. Indeed, i have a number (0.2345678)and i want it to be with 2 digits after the decimal

David's solution from four years ago is still a good one...
IDL> a = 0.2345678d
IDL> print, round(a*100)/100.0d
      0.23000000
Or if you just care about the printed version,
IDL> print, a, format='(D0.2)'
0.23