Subject: Re: Double precision
Posted by plim.dreaming on Thu, 19 Mar 2009 07:36:27 GMT
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Well, I can't make sense of it.
I read the article and if my case is in there I can't find it.
Seems simple my problem.
I am reading in a bunch of numbers, the input file has those numbers
as
100.489418 10.512547
100.489718 10.512558
and so on
I read in those numbers with DOUBLE
i remove some pairs which don't interest me and the rest I print them
to an output file and they turn up as
100.48942 10.512547
100.48942 10.512558

i just want the precision to be the same in the output as in the
input. same number. that's all i ask. I notice that if I read in
those numbers as FLOAT instead of DOUBLE then it was even worse. So
it is true I am assuming that the DOUBLE is truncating/rounding-off/
whatever.

thanks for the help thus far.
P

On Mar 18, 10:31 pm, David Fanning <n...@dfanning.com> wrote:
> plim.dream...@gmail.com writes:
>> Later in the program I calculate the separation between points (x1,y1)
>> (x2,y2)
>> And for some of those points the program says that the pairs are the
>> same. But they are only the same if they are rounded off, the
>> difference often only shows up in the last 2 decimal places.
>> ya, i read that link, most of it at least.
>
> I hope you aren't comparing floats with the EQ operator.
> Maybe you should read that article again. All the way
> to the end this time. :-)
>
> You might try Floats_Equal. You will get better results,
> probably:
>
> http://www.dfanning.com/program/floats_equal.pro
>
>> One other thing is: lets say the print out is the issue; a case like
>> you pointed out above, then why is it that if I do:
>> b=3Dstring(num)

>> print,b will give me the rounded off number?
>
> It isn't rounding off the number. The number is the
> number. It is printing the number in 8 significant
> figures, which is the default format. Give it another
> format and it will do something else.
>
> 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.")
