Subject: Re: double precision?
Posted by news.qwest.net on Thu, 10 Aug 2006 20:35:28 GMT
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<adisn123@yahoo.com> wrote in message
news:1155241088.452911.315540@i3g2000cwc.googlegroups.com...
> Hi,
>
> The value that I want to keep in a variable, a, is
> 1.24500000476837.
> After I define as
> IDL> a = 1.24500000476837
> then, print, a
> IDL> print, a
> IDL> 1.2450000
> so, I tried
> IDL> a = 1.24500000476837d ;; to make it as a double precision, but
> IDL prints
> IDL> help, a
> A DOUBLE = 1.2450000
> IDL> print, a
> 1.2450000
>
>
> How can I keep all those decimal points?
> I thought double precision can express up to 14 decimal places of
> significant points?

Try
IDL> print,a,format='(f50.25)'
1.24500000476837000000000000

Cheers,
bob

Subject: Re: double precision?
Posted by adisn123 on Fri, 11 Aug 2006 19:15:35 GMT
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I tried your way, but IDL prints

IDL> a = 1.24500000476837
IDL> print,a,format='(f50.25)'
1.24500000476837158203125000
IDL>

Furthermore, the variable a is constantly used throughout the whole program.
Is there a way that all the other calculation use the same a and makes output in the same
decimal points?

R.G. Stockwell wrote:
> <adisn123@yahoo.com> wrote in message
> news:1155241088.452911.315540@i3g2000cwc.googlegroups.com...
>> Hi,
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>> significant points?
>
>
> Try
> IDL> print,a,format='(f50.25)'
> 1.24500000476837000000000000
>
> Cheers,
> bob

Subject: Re: double precision?
Posted by Chris[2] on Fri, 11 Aug 2006 20:17:09 GMT
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You still need the "d" after the number, to make sure it is double precision:

IDL> a = 1.24500000476837d

IDL> print,a,format='(f25.16)'

1.2450000047683700

-Chris

<adisn123@yahoo.com> wrote in message
news:1155323735.947393.276430@m73g2000cwd.googlegroups.com.. .
> I tried your way, but IDL prints
>
> IDL> a = 1.24500000476837
> IDL> print,a,format='(f50.25)'
> 1.24500000476837158203125000
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>>> How can I keep all those decimal points?
>>> I thought double precision can express up to 14 decimal places of
>>> significant points?
>>
>>
>> Try
>> IDL> print,a,format='(f50.25)'
>> 1.24500000476837000000000000
>>
>> Cheers,
>> bob
>

Subject: Re: double precision?
Posted by adisn123 on Mon, 14 Aug 2006 16:45:45 GMT
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Thanks it's working.

Chris Torrence wrote:
> You still need the "d" after the number, to make sure it is double
> precision:
>
> IDL> a = 1.24500000476837d
>
> IDL> print,a,format='(f25.16)'
>
> 1.2450000047683700
>
> -Chris
>
>
>
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