
Subject: Re: decimal numbers

Posted by [R.G.Stockwell](#) on Tue, 11 May 2010 23:25:36 GMT

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"fgg" <fabioquimaraesgoncalves@gmail.com> wrote in message
news:a43a5251-e8a0-45d2-a283-29388766de37@a2g2000prd.googlegroups.com...

> Hello,

>

> If

>

> IDL> a=358983

>

> how can I get a "b" = 0.358983? (that is, $b = a/10^6$)?... Why do I get

> the weird result below when I change "a" to double and divide it by

> 10^6 ?

>

> IDL> b=double(a)/10^6

> IDL> print, b

> 21.166450

>

> Thank you!

try this.

```
IDL> print,10^6
16960
```

Subject: Re: decimal numbers

Posted by [penteado](#) on Tue, 11 May 2010 23:30:14 GMT

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On May 11, 8:15 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

> Hello,

>

> If

>

> IDL> a=358983

>

> how can I get a "b" = 0.358983? (that is, $b = a/10^6$)?... Why do I get

> the weird result below when I change "a" to double and divide it by

> 10^6 ?

>

> IDL> b=double(a)/10^6

> IDL> print, b

> 21.166450

Just use

a=358983d-6

10^6 overflows integers (16 bit by default):

```
IDL> print,10^6  
16960
```

If you want to use 10^6, use either 1d6, 1e6, or if you want integers, some larger integer type, such as 10L^6.

See

http://groups.google.com/group/comp.lang.idl-pwwave/browse_thread/thread/775f355afcfa0b8a

Subject: Re: decimal numbers

Posted by [fgg](#) on Tue, 11 May 2010 23:45:35 GMT

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> Just use
>
> a=358983d-6
>
> 10^6 overflows integers (16 bit by default):
>
> IDL> print,10^6
> 16960
>
> If you want to use 10^6, use either 1d6, 1e6, or if you want integers,
> some larger integer type, such as 10L^6.
>
> See
>
> [http://groups.google.com/group/comp.lang.idl-pwwave/browse_thread/thr...](http://groups.google.com/group/comp.lang.idl-pwwave/browse_thread/thread/775f355afcfa0b8a)

Great! Thanks a lot!
