
Subject: Re: Problem with variable declaration
Posted by [jeanh](#) on Wed, 21 Apr 2010 17:31:04 GMT
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On 21/04/2010 1:24 PM, bala murugan wrote:

> Hi guys,
>
> IDL> print,((10^5)/(exp(10)*factorial(5)))
>
> The actual result of the above line is 0.0378332748
>
> But when we run it in IDL we get the result as -0.011755556
>
> What should be done to rectify this?
>
> Thanks,
> B

be careful of your data type.

10^5 will not work, as the result is an integer... but its intended value is too big for an integer!

```
IDL> help,(10^5)
<Expression>  INT    =  -31072
```

So you can compute this with double precision

```
IDL> help,(10D^5)
<Expression>  DOUBLE =   100000.00
```

```
IDL> print,((10^5)/(exp(10)*factorial(5)))
-0.011755555
IDL> print,((10D^5)/(exp(10)*factorial(5)))
0.037833276
```

Jean
