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Subject: Re: Problem with variable declaration

Posted by [bala murugan](#) on Wed, 21 Apr 2010 17:34:26 GMT

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On Apr 21, 11:31 am, jeanh

<jghasb...@DELETETHIS.environmentalmodelers.ANDTHIS.com> wrote:

> 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

Thanks a lot Jean. But when I am using an expression like the following,

$$a = (u^x)/(exp(u)*factorial(x))$$

where  $u=10$  &  $x = 5$

What do I do in this case?

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