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Subject: Re: 32/19 = 1

Posted by [Spon](#) on Sat, 09 Feb 2008 20:14:01 GMT

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On Feb 9, 7:21 pm, woo...@interia.pl wrote:

> Hi  
>  
> like in topic  
> i get 1 when i make 32/19 or other float  
> operation it seem my idl round (-> integer) evry results  
> my question is WHY  
>  
> <http://rapidshare.com/files/90474007/cestquoi.jpg.html>  
>  
> thx  
> Wojtek

This is because IDL assumes that both of your input numbers (32 and 19) are integers (or longword integers, depending on your settings, but the result will be the same), and will give the result in the same format as the input by default. If you want a float output, you'll have to cast at least one of the inputs to float, e.g.:

```
print, 32.0 / 19  
print, 32 / 19.0  
print, FLOAT(32) / 19  
print, 32e1 / 19 ; 32e1 == 32 x 10^1  
print, FIX(32, TYPE = 4) / 19
```

note that FLOAT(32/19) will give you the wrong answer, 1.00000, as you're converting to float AFTER the (integer / integer) division.

Cheers,  
Chris

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