Subject: Re: modulo operator
Posted by spluque on Sat, 09 Nov 2013 15:53:14 GMT
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On Friday, November 8, 2013 9:36:39 PM UTC-6, Craig Markwardt wrote:
> On Friday, November 8, 2013 5:54:30 PM UTC-5, spl...@gmail.com wrote:
>
>> Hi,
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>>
>
>> I'm a little confused by the following:
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>
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>
>>
>
>> IDL> print, 1200 MOD 0.1
>
>>
>
>>   0.0999821
>
>>
>
>> IDL> print, (1200 * 10.0) MOD (0.1 * 10)
>
>>
>
>>   0.00000
>
>>
>
>>
>
>>
>
>> I expected this to be 0 either way. What am I missing?
>
>
>
> See David's post.

>
> Then try the same experiment with double precision everywhere instead.
>
>
>
> IDL> print, 1200d MOD 0.1d
>
>
>
> IDL> print, (1200d * 10d) MOD (0.1d * 10d)
>

Thank you both for these pointers. I didn't expect the difference to be so large due to these numerical representation issues. So what is the canonical way to guard against this?

Seb
