Subject: Re: negation operator Posted by greg michael on Fri, 14 Jul 2006 15:02:02 GMT View Forum Message <> Reply to Message

Yes, you're right - I'd got used to the quirk with exponents. I've only just realised, though, that it appears to mean that there's no such thing as a negative constant in IDL. They're always calculated values. Maybe that's normal - I don't know.

greg

```
JD Smith wrote:
> On Thu, 13 Jul 2006 06:31:18 -0700, greg michael wrote:
>
>> This is odd...
>>
>> IDL> print,-100 > -90 < 90
>>
>> print, -100 > -90 < 90
>>
>> Syntax error.
>> IDL> print,-100 > (-90) < 90
       -90
>>
>>
>> Is there any reason why a negation operator should ever come lower than
>> anything else?
>
> You get the same problem with exponentiation, which is 2 steps up in
> the operator precedence chain (see
 http://www.dfanning.com/misc_tips/precedence.html).
>
 IDL> print, 2.^-2
>
>
 print, 2.^-2
>
         ٨
>
 % Syntax error.
  IDL> print, 2.^(-2)
     0.250000
>
> So it's not that fact that `-' shares precedence with '>', just that
> both are left-right associative, so you can't put two adjacent. This
> doesn't always hold though... for example, how about `++' (2nd highest
  precedence) and '~' (2nd to last precedence):
>
> IDL> a=1
> IDL> print,~++a
> 0
>
```