
Subject: Re: -32768

Posted by [Jim Pendleton](#) on Thu, 20 Mar 2014 21:11:07 GMT

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On Thursday, March 20, 2014 11:01:01 AM UTC-6, Karl wrote:

> On Thursday, March 20, 2014 3:24:59 AM UTC-6, Rob Klooster wrote:

>

>> The reason it does not work, is that you first try to define +32768 and then negate the result. Since +32768 can only be expressed as a long, you end up with a long variable. Using fix is a solution, but you could also use the bitwise not operator, if you feel adventurous:

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>>

>

>> IDL> a = not 32767

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>>

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>> IDL> help, a

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>>

>

>> A INT = -32768

>

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> And whether this is a "bug" in IDL or not depends on how IDL defines literal constants.

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> If an IDL (integral) constant has the form (excuse my abuse of regex):

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> [+ -][0-9]*

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> then one could argue this is be a bug.

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> If a constant can be only:

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>

>

> [0-9]*

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> then, the '-' is taken as an operator and this would not be considered an IDL bug.
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> C allows:
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>
> short a = -32768;
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>
> but warns about:
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>
> short a = -32769;
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>
> on a machine where a short is 16 bits.

The docs on numeric constants imply that the "+" and "-" are considered operators.

http://www.exelisvis.com/docs/Defining_and_Using_Const.html

This can also be tested experimentally by writing a DLM that checks if an input IDL_VARIABLE is an expression or a constant.
