View Forum Message <> Reply to Message fawltylanguage@gmail.com wrote, On 2014-03-22, 1:58pm: > On Saturday, March 22, 2014 9:20:36 PM UTC+1, Dick Jackson wrote: >> On Friday, March 21, 2014 11:02:08 AM UTC-7, Yngvar Larsen wrote: >>> On Friday, 21 March 2014 00:44:17 UTC+1, Chris Torrence wrote: >>> On Thursday, March 20, 2014 3:30:49 PM UTC-6, Yngvar Larsen wrote: >> >>> Jim P. is correct that the minus sign is really an operator. So it really is a runtime error to write "a = 32768s", regardless of whether you are then going to take the negative of it. >> >>> Fair enough. In that case, what is missing is a way to enter a literal negative number. "-376768" \_is\_ a valid 16-bit signed integer after all! Not really a problem, since negation of a single number hardly is a big performance hit... Also, the OPs problem hasn't hit me at all during the 15+ years I've been using IDL. And there are at least 3 simple (bit silly) workarounds, already mentioned in this thread. >> >> And for our further pedantry, if you really need to know which is most time efficient (at least on my MacBook, IDL 8.2): >> >> IDL> tic & for i=1,1e7 do a=FIX(-32768) & toc >> % Time elapsed: 1.7954290 seconds. >> >> IDL> tic & for i=1,1e7 do a=FIX('8000'X) & toc : Hex code depends on hardware "endian-ness" >> % Time elapsed: 1.4319592 seconds. >> >> IDL> tic & for i=1,1e7 do a=not 32767S & toc >> % Time elapsed: 1.1942451 seconds. >> >> IDL> tic & for i=1,1e7 do a=-32767S-1S & toc ; The winner! >> % Time elapsed: 1.1435649 seconds. >> >> Notice how much longer this takes compared to a simple, positive literal: >> IDL> tic & for i=1,1e7 do a=32767S & toc >> % Time elapsed: 0.39454412 seconds. > I think the winner is: a='8000'XS > regards, > Lajos

Subject: Re: -32768

Posted by Dick Jackson on Sat, 22 Mar 2014 23:56:29 GMT

Ooh, right you are! (I missed that one) Excellent, thank you.

Again, though, the hex code depends on hardware "endian-ness".

IDL> tic & for i=1,1e7 do a='8000'XS & toc % Time elapsed: 0.38863897 seconds.

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Cheers,

-Dick

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