
Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [Rick Towler](#) on Thu, 25 Oct 2001 19:02:39 GMT

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Bug? I don't know.

But I can confirm that as written, I get the same error in IDL 5.4 and 5.5(beta) on Win2k and in IDL 5.3 and 5.4.1 on Solaris (sunos sparc).

FWIW, if you put spaces around your "+" you don't get the error:

-Rick

"Joe Means" wrote in message news:3BD85C6F.8040606@orst.edu...

> This looks like a simple bug in the IDL 5.4 compiler under Windows2000.

> If others confirm this, then RSI you may want to take note. Perhaps it
> is fixed in 5.5 which I cannot afford yet.

>

> PRO Showbug

>

> numAll1Rets = 6

> segmentT = 2d

>

> distancesT = segmentT*(Dindgen(numAll1Rets-2)+1d)

>

> distancesT = segmentT*(1d+Dindgen(numAll1Rets-2))

> ;This second statement generates a compile error:

> ;%Syntax error.

>

> Return

> End

>

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [Dick Jackson](#) on Thu, 25 Oct 2001 19:44:22 GMT

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> "Joe Means" wrote in message news:3BD85C6F.8040606@orst.edu...

>> This looks like a simple bug in the IDL 5.4 compiler under Windows2000.

>> If others confirm this, then RSI you may want to take note. Perhaps it

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```
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>> Return
>> End
```

"Rick Towler" <rtowler@u.washington.edu> wrote in message
news:9r9nld\$26e6\$1@nntp6.u.washington.edu...

> Bug? I don't know.

>

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> 5.5(beta) on Win2k and in IDL 5.3 and 5.4.1 on Solaris (sunos sparc).

>

> FWIW, if you put spaces around your "+" you don't get the error:

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> -Rick

Right, and that would be because, for example, the constant 1d+3 means
1*10^3, double precision. 1d+D... is just not allowed. Rick's suggestion is
good, or if you prefer:

```
distancesT = segmentT*(1d0+Dindgen(numAll1Rets-2))
```

```
distancesT = segmentT*((1d)+Dindgen(numAll1Rets-2))
```

Cheers,

--

-Dick

Dick Jackson / dick@d-jackson.com
D-Jackson Software Consulting / http://www.d-jackson.com
Calgary, Alberta, Canada / +1-403-242-7398 / Fax: 241-7392

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [Joe Means](#) on Thu, 25 Oct 2001 19:45:36 GMT

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Rick,

Regarding your question about whether this behavior is a bug, my
rationale for saying so is that it the offending statement contains no
incorrect IDL syntax that I can see.

Joe

Rick Towler wrote:

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> Bug? I don't know.
>
> But I can confirm that as written, I get the same error in IDL 5.4 and
> 5.5(beta) on Win2k and in IDL 5.3 and 5.4.1 on Solaris (sunos sparc).
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>>   segmentT = 2d
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>>   ;This second statement generates a compile error:
>>   ;%Syntax error.
>>
>> Return
>> End
>>
```

```
--
Joseph E. Means
Assistant Professor, joe.means@orst.edu
Department of Forest Science
Oregon State University
Corvallis, OR 97331-5752
541-750-7351
```

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000
Posted by [Rick Towler](#) on Thu, 25 Oct 2001 21:45:35 GMT
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```
> Regarding your question about whether this behavior is a bug, my
> rationale for saying so is that it the offending statement contains no
```

> incorrect IDL syntax that I can see.

I agree! I thought you were on to something too but I personally don't use the word since I have eaten it so much and have lost the taste for it. Someone like Dick always comes along and points out your mistakes. If only I knew everything...

-Rick

"Joe Means" wrote in message news:3BD86BE0.10908@orst.edu...

> Rick,
> Regarding your question about whether this behavior is a bug, my
> rationale for saying so is that it the offending statement contains no
> incorrect IDL syntax that I can see.
> Joe
>

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000
Posted by [David Fanning](#) on Thu, 25 Oct 2001 22:05:57 GMT
[View Forum Message](#) <> [Reply to Message](#)

Rick Towler (rtowler@u.washington.edu) writes:

> I agree! I thought you were on to something too but I personally don't use
> the word since I have eaten it so much and have lost the taste for it.
> Someone like Dick always comes along and points out your mistakes. If only
> I knew everything...

This particular "bug" caused me about a 100 gray hairs and nearly a half a day in an IDL programming course I once taught. It's one of the reasons I became so anal about code "looking" right. :-)

Cheers,

David

--

David W. Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [R.Bauer](#) on Fri, 26 Oct 2001 12:01:56 GMT

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Joe Means wrote:

```
>
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> If others confirm this, then RSI you may want to take note. Perhaps it
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> ;This second statement generates a compile error:
> ;%Syntax error.
>
> Return
> End
>
```

Dear Joseph,

my linux Version gives a much more better error statement.

```
distancesT = segmentT*(1d+Dindgen(numAll1Rets-2))
                        ^
```

% Syntax error.

```
print,1e+dindgen(10)
```

gives the same syntax error.

I could not decide what is more wrong to set an exponent by a function or to ignore exponents settings for double numbers by d.

I believe it is no bug but I agree that's the error statement you got isn't very helpful.

regards

Reimar

> --
> Joseph E. Means, joe.means@orst.edu
> Department of Forest Science
> Oregon State University
> Corvallis, OR 97331-5752
> 541-750-7351

--
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

=====

read something about linux / windows
<http://www.suse.de/de/news/hotnews/MS.html>

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [Joe Means](#) on Fri, 26 Oct 2001 19:16:14 GMT

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<html><head></head><body>Hmmm.... I missed that one. Thanks, Dick.

Cheers,

Joe

Dick Jackson wrote:

<blockquote type="cite" cite="mid:qYZB7.6292\$4H1.13032@shaw-ty2">

<blockquote type="cite"><pre wrap="">"Joe Means" wrote in message <a
class="moz-txt-link-freetext"

href="news:3BD85C6F.8040606@orst.edu">news:3BD85C6F.8040606@orst.edu...
</pr

e><blockquote type="cite"><pre wrap="">This looks like a simple bug in the IDL 5.4 compiler
under Windows2000.
If others confirm this, then RSI you may want to take note. Perhaps

it
is fixed in 5.5 which I cannot afford yet.

PRO Showbug

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distancesT = segmentT*(1d+Dindgen(numAll1Rets-2))
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a compile error:
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error.

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End
</pre></blockquote></blockquote> >
<pre wrap=""><!-->
"Rick Towler" <a class="moz-txt-link-rfc2396E"
href="mailto:rtowler@u.washington.edu"><rtowler@u.washington.edu> wrote in
message
<a class="moz-txt-link-freetext"
href="news:9r9nld\$26e6\$1@nntp6.u.washington.edu">news:9r9nld\$26e6\$1@nntp6.u.washingto
n.edu...
</pre>
<blockquote type="cite"><pre wrap="">Bug? I don't know.

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</pre></blockquote>
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distancesT = segmentT*(1d0+Dindgen(numAll1Rets-2))

distancesT
= segmentT*((1d)+Dindgen(numAll1Rets-2))

Cheers,
--
-Dick

Dick
Jackson / <a class="moz-txt-link-abbreviated"
href="mailto:dick@d-jackson.com">dick@d-jackson.com
D-Jackson Software Consulting
/ <a class="moz-txt-link-freetext"
href="http://www.d-jackson.com">http://www.d-jackson.com
Calgary, Alberta, Canada /
+1-403-242-7398 / Fax: 241-7392

</pre>
</blockquote>

<pre class="moz-signature">--
Joseph E. Means
Assistant Professor, <a class="moz-txt-link-abbreviated"
href="mailto:joe.means@orst.edu">joe.means@orst.edu
Department of Forest Science
Oregon State University
Corvallis, OR 97331-5752
541-750-7351</pre>

</body></html>

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [thompson](#) on Mon, 29 Oct 2001 15:48:16 GMT

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Joe Means <joe.means@orst.edu> writes:

> Rick,
> Regarding your question about whether this behavior is a bug, my
> rationale for saying so is that it the offending statement contains no
> incorrect IDL syntax that I can see.
> Joe

Actually, I would argue that writing a number as simply "1d" is incorrect
syntax, or at least sloppy syntax. IDL lets you get away with it in most cases
(obviously not here), but the number really should be written as "1d0".

Sorry, I don't mean to come off as harsh.

William Thompson

> Rick Towler wrote:

>> Bug? I don't know.

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>> But I can confirm that as written, I get the same error in IDL 5.4 and
>> 5.5(beta) on Win2k and in IDL 5.3 and 5.4.1 on Solaris (sunos sparc).

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Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [tam](#) on Mon, 29 Oct 2001 16:55:24 GMT

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I note that my old version 4 IDL User's Guide explicitly describes 1D as a double precision constant (p 3-3). Same is true in V5's Building IDL Applications (p 15). In the context of describing doubles whose values happen to be integral, I don't see why it's any sloppier than the equivalent 1B or 1L used for other types.

Regards,
Tom McGlynn

William Thompson wrote:

>
> Joe Means <joe.means@orst.edu> writes:
>
>> Rick,
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> William Thompson
>

Subject: Re: Simple bug in IDL 5.4 compiler under Win2000

Posted by [Foldy Lajos](#) on Mon, 29 Oct 2001 17:43:55 GMT

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Hi,

IDL regards 1d+ as a double constant. Try 'help, 1d+' or 'a=1d+'. Both works. Try 'a=1d+x'. It gives a syntax error: a constant followed by a variable. So this '1d+ is a double constant in IDL' syntax is weird.

regards,
Lajos Foldy

On 29 Oct 2001, William Thompson wrote:

```
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>
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```

```
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>
```
