
Subject: Re: Default interactive integer type
Posted by [Rick Towler](#) on Fri, 09 May 2003 15:59:26 GMT
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"Kenneth P. Bowman" wrote

```
...
> In a procedure or function the default integer type can be changed from
> INT to LONG with
>
> COMPILE_OPT DEFINT32
>
> or
>
> COMPILE_OPT IDL2
>
> Is there any way to change the default integer type for interactive use
> or is explicit specification of the type the only solution?
>
> IDL> i = 32
> IDL> help, i
> I          INT      =      32
> IDL> i = 32L
> IDL> help, i
> I          LONG     =      32
>
```

Sure! Just issue the compiler option in your main session:

```
IDL> i=1
IDL> help,i
I          INT      =      1
IDL> compile_opt IDL2
IDL> i=1
IDL> help, i
I          LONG     =      1
```

This will stick until you reset your IDL session.

-Rick

Subject: Re: Default interactive integer type
Posted by [Kenneth P. Bowman](#) on Fri, 09 May 2003 16:31:59 GMT
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In article <b9gjau\$20sa\$1@nntp6.u.washington.edu>,
"Rick Towler" <rtowler@u.washington.edu> wrote:

```
>> Is there any way to change the default integer type for interactive use
>> or is explicit specification of the type the only solution?
> Sure! Just issue the compiler option in your main session:
>
> IDL> i=1
> IDL> help,i
> I          INT      =      1
> IDL> compile_opt IDL2
> IDL> i=1
> IDL> help, i
> I          LONG     =      1
>
> This will stick until you reset your IDL session.
```

Duh!

I guess I can be forgiven since the docs say:

"The COMPILE_OPT statement allows the author to give the IDL compiler information that changes some of the default rules for compiling the function or procedure within which the COMPILE_OPT statement appears."

So does everyone have

```
COMPILE_OPT IDL2
```

in their startup.pro?

RESET_SESSION does not re-run the startup.pro file, does it?

Ken

Subject: Re: Default interactive integer type
Posted by [Liam E. Gumley](#) on Fri, 09 May 2003 16:32:20 GMT
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"Rick Towler" <rtowler@u.washington.edu> wrote in message
news:b9gjau\$20sa\$1@nntp6.u.washington.edu...

```
>
> "Kenneth P. Bowman" wrote
> ...
>> In a procedure or function the default integer type can be changed from
>> INT to LONG with
>>
>> COMPILE_OPT DEFINT32
```

```

>>
>> or
>>
>> COMPILE_OPT IDL2
>>
>> Is there any way to change the default integer type for interactive use
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>> IDL> i = 32
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>> I          INT      =      32
>> IDL> i = 32L
>> IDL> help, i
>> I          LONG     =      32
>>
>
> Sure! Just issue the compiler option in your main session:
>
> IDL> i=1
> IDL> help,i
> I          INT      =      1
> IDL> compile_opt IDL2
> IDL> i=1
> IDL> help, i
> I          LONG     =      1
>
>
> This will stick until you reset your IDL session.

```

That's such a good idea, I've added it to my IDL startup file (idl_startup.pro):

```

if !version.os_family eq 'unix' then device, true_color=24
window, /free, /pixmap, colors=-10
wdelete, !d.window
device, decomposed=0, retain=2, set_character_size=[10, 12]
device, get_visual_depth=depth
compile_opt idl2
print, 'Display depth: ', strcompress(depth)
print, 'Color table size: ', strcompress(!d.table_size)
print, 'Default integer type: ', size(0, /tname)

```

Now I'll see if it breaks any old code!

Cheers,
Liam.
Practical IDL Programming

Subject: Re: Default interactive integer type
Posted by [Kenneth P. Bowman](#) on Fri, 09 May 2003 17:20:07 GMT
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In article <b9gl6m\$182\$1@news.doit.wisc.edu>,
"Liam Gumley" <Liam.Gumley@ssec.wisc.edu> wrote:

> That's such a good idea, I've added it to my IDL startup file
>
> compile_opt idl2

Well, if Liam didn't know about it, I don't feel so bad. :-)

Ken

Subject: Re: Default interactive integer type
Posted by [Rick Towler](#) on Fri, 09 May 2003 17:22:14 GMT
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"Kenneth P. Bowman" wrote ...

> "Rick Towler" wrote:
>
>>> Is there any way to change the default integer type for interactive
use
>>> or is explicit specification of the type the only solution?
>>
>> Sure! Just issue the compiler option in your main session:
>>
>> IDL> i=1
>> IDL> help,i
>> I INT = 1
>> IDL> compile_opt IDL2
>> IDL> i=1
>> IDL> help, i
>> I LONG = 1
>>
>> This will stick until you reset your IDL session.
>
>
> Duh!
>
> I guess I can be forgiven since the docs say:
>

I don't slow myself down by reading the docs. Sure, it may lead to some embarrassment along the way but it makes working with IDL much more exciting! Sheesh, you must be one of these people that actually reads the manual before he uncrates that new gizmo. :)

> RESET_SESSION does not re-run the startup.pro file, does it?

Unfortunately IDL doesn't re-run the startup.pro file when you reset your session. That has bit me a number of times :(

-Rick

Subject: Re: Default interactive integer type
Posted by [R.Bauer](#) on Mon, 12 May 2003 20:00:57 GMT
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Rick Towler wrote:

```
>
> "Kenneth P. Bowman" wrote ...
>> "Rick Towler" wrote:
>>
>>>> Is there any way to change the default integer type for interactive
> use
>>>> or is explicit specification of the type the only solution?
>>>
>>> Sure! Just issue the compiler option in your main session:
>>>
>>> IDL> i=1
>>> IDL> help,i
>>> I          INT      =      1
>>> IDL> compile_opt IDL2
>>> IDL> i=1
>>> IDL> help, i
>>> I          LONG     =      1
>>>
>>> This will stick until you reset your IDL session.
>>
>>
>> Duh!
>>
>> I guess I can be forgiven since the docs say:
>>
>
```

> I don't slow myself down by reading the docs. Sure, it may lead to some
> embarrassment along the way but it makes working with IDL much more
> exciting! Sheesh, you must be one of these people that actually reads the
> manual before he uncrates that new gizmo. :)
>
>
>> RESET_SESSION does not re-run the startup.pro file, does it?
>
> Unfortunately IDL doesn't re-run the startup.pro file when you reset your
> session. That has bit me a number of times :(
>
>
> -Rick

Does it help to add a @start_up into each critical source.

On the other hand if you set integer always to long this takes a lot of
memory for indexing of arrays. Or did you explicitly write
a=5s if you like "a" to be a short integer.

Reimar

--

Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg-i/>

=====

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