
Subject: Re: 'loop limit expression too large for loop variable type' error

Posted by [Snow53](#) on Mon, 30 Aug 2010 15:43:01 GMT

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An update:

I'm now trying with,

for j=0L, num_ids-1 do begin

instead of just,

for j=0, num_ids-1 do begin.

It seems to be working..... :)

Subject: Re: 'loop limit expression too large for loop variable type' error

Posted by [penteado](#) on Mon, 30 Aug 2010 15:47:24 GMT

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On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:

> My code runs great on small data sets, but I'm trying to use it for
> larger sets and I've started getting an
> "loop limit expression too large for loop variable type' error when I
> reach the "for j=0, num_ids-1 do begin". Why is this happening and
> how can I fix it?

It appears that num_ids is 2^16 or larger, which would overflow the
loop variable initialized with the type int. Use instead

for j=0L, num_ids-1

Or add at the beginning

compile_opt idl2

or compile_opt defint32

Assuming it would fit into a long (2^32).

Subject: Re: 'loop limit expression too large for loop variable type' error

Posted by [Snow53](#) on Mon, 30 Aug 2010 15:57:58 GMT

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On Aug 30, 9:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:
>
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> Or add at the beginning
>
> compile_opt idl2
>
> or compile_opt defint32
>
> Assuming it would fit into a long (2^32).

Thanks for the compile_opt tips!

Subject: Re: 'loop limit expression too large for loop variable type' error
Posted by chris_torrence@NOSPAM on Mon, 30 Aug 2010 15:58:21 GMT
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On Aug 30, 9:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
> On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:
>
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>
> for j=0L, num_ids-1
>
> Or add at the beginning
>
> compile_opt idl2
>
> or compile_opt defint32
>

> Assuming it would fit into a long (2^32).

Or you could upgrade to IDL 8.0, which automatically promotes the loop variable to a long or long64 if the loop limit is greater than the maximum value for the loop variable. If it isn't greater than the maximum, then it leaves it alone.

Cheers,

Chris
ITTVIS

Subject: Re: 'loop limit expression too large for loop variable type' error
Posted by [Jeremy Bailin](#) on Mon, 30 Aug 2010 16:56:46 GMT
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On Aug 30, 11:58 am, Chris Torrence <gorth...@gmail.com> wrote:

> On Aug 30, 9:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

>
>
>
>
>
>

>> On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:

>

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>> Or add at the beginning

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> Or you could upgrade to IDL 8.0, which automatically promotes the loop
> variable to a long or long64 if the loop limit is greater than the
> maximum value for the loop variable. If it isn't greater than the

> maximum, then it leaves it alone.
>
> Cheers,
>
> Chris
> ITTVIS

Damn, that's going to seriously erode my perceived guru status, since easily half the questions I get boil down to this issue! ;-)

-Jeremy.

Subject: Re: 'loop limit expression too large for loop variable type' error
Posted by [pgrigis](#) on Tue, 31 Aug 2010 21:27:42 GMT
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On Aug 30, 12:56 pm, Jeremy Bailin <astroco...@gmail.com> wrote:
> On Aug 30, 11:58 am, Chris Torrence <gorth...@gmail.com> wrote:
>
>
>
>> On Aug 30, 9:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
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>>> On Aug 30, 12:36 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:
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>> Cheers,
>
>> Chris
>> ITTVIS
>
> Damn, that's going to seriously erode my perceived guru status, since
> easily half the questions I get boil down to this issue! ;-)
>
> -Jeremy.

Wow - it really starts to look like now **everybody** will be able to use IDL right off the bat... unless we work hard to press ITT into introducing a few new additional obscure features designed to baffle the IDL noobs!

In the meantime I suggest we start feeding IDL noobs programs like the following in order to save the last scraps of our claims to elitism...

```
execute=(i=execute('"&execute=execute(execute+""+$  
)--')&i$1i='print'&i1$i='scope_varname'&i2$i=' s'+$  
'trtrim'&i$i='i'&i$i=i$i+'$i=('+i2$i+'(' +i1$i+'(' +$  
i$i+')'+',' +i$i+'+++1)))[0]'&execute=execute(i$i)&i=$  
' for '+i$i+' = '&execute=execute('i2$i='+i2$i+'('$  
call_function(i2$i,execute) +',2)')&execute=i+i2$i+$  
' ,'+i2$i+i2$i+' do '+i$1i+', '+i$i  
execute=execute(execute)
```

Ciao,
Paolo
