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 View Forum Message <> Reply to Message

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:
>
>> 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 chris torrence@NOSPAM on Mon, 30 Aug 2010 15:58:21 GMT

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Thanks for the compile opt tips!

```
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:

> 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).

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 View Forum Message <> Reply to Message

```
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:
>>> 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 i=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).
>
> 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,ChrisITTVIS
```

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:
>>> 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 i=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
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>>> for j=0L, num_ids-1
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>>> 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
>
> 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