## Subject: Re: % Loop limit expression too large for loop variable type.
Posted by Craig Markwardt on Mon, 30 Apr 2001 16:58:21 GMT

"hua Guo" <gh75@usa.net> writes:

> Dear all,
> I got this error message when I tried to run a program:
>
> % Loop limit expression too large for loop variable type.
>   <LONG    (     54695)>.
>
> What is wrong here? I am a beginner here. Thanks for any help.

The default type for integers in IDL is a "short" or 16-bit integer,
which can only go from -32768 to 32767.  The quick fix is to put an
"L" at the end of your numeric constants to promote them to "long"
32-bit integers.

for i = 0L, NMAX-1 do begin ...

Note the "0L" instead of "0".

Craig

P.S.  This is one of the secret banes of IDL programming.  You have
the freedom to use any IDL type at any time.  The problem is that any
IDL type can appear at any time...

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Craig B. Markwardt, Ph.D.      EMAIL:   craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
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## Subject: Re: % Loop limit expression too large for loop variable type.
Posted by davidf on Mon, 30 Apr 2001 17:00:41 GMT

hua Guo (gh75@usa.net) writes:

> I got this error message when I tried to run a program:
>
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>   <LONG    (     54695)>.
>
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Normally, any integer in IDL is a short (two byte)
integer, including integers in loop expressions.
You need your loop variables to be LONG (four byte)
integers. You can set this up in one of two different ways.

The most common way is to force the loop expression
to be a long integer:

   FOR j=0L, n DO Whatever

The second is to make ALL integers in your program
be long integers. You do this by putting a COMPILE_OPT
statement in your program module:

   PRO JUNK
   Compile_Opt defint32

Cheers,

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

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**Subject: Re: % Loop limit expression too large for loop variable type.**
Posted by Paul van Delst on Mon, 30 Apr 2001 17:41:39 GMT
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hua Guo wrote:
>
> Dear all,
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>
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>   <LONG    (    54695)>.
>
> What is wrong here? I am a beginner here. Thanks for any help.
>
> Hua

If you have

   FOR i = 0, really_big_number - 1 DO BEGIN

change it to

```
 FOR i = 0L, really_big_number - 1 DO BEGIN
```

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Paul van Delst          A little learning is a dangerous thing;
CIMSS @ NOAA/NCEP        Drink deep, or taste not the Pierian spring;
Ph: (301)763-8000 x7274  There shallow draughts intoxicate the brain,
Fax:(301)763-8545        And drinking largely sobers us again.
paul.vandelst@noaa.gov              Alexander Pope.