Subject: Re: loop limit ???

Posted by mmeron on Wed, 18 Apr 2007 22:28:08 GMT

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In article <1176929681.182929.291930@q75g2000hsh.googlegroups.com>, kostis <kostiskaz@gmail.com> writes: > i wouldnt expect that IDL has a limit for loops!! > trying a loop of 50.000 steps i got the message:

_

> % Compiled module: TRAJECTORY.

> % Loop limit expression too large for loop variable type.

> <LONG (49999)>.

> % Execution halted at: TRAJECTORY 16 /home/kostis/PROJECT

> LARMOR/dipole/trajectory.pro

> % \$MAIN\$

>

> Why is this?

> This means i cant have bigger loops... or is there a trick??

>

You can have much larger loops, just be careful about the indexing. In the expression

for i = a, b do ...

the type of the loop variable is determined by the type of a (regardless of what b is). So, if you write

for i = 0,50000

or even

for i = 0,500001

the loop variable will be a standard (aka "short") integer and these are limited to 2^15 - 1, i.e. 32767. But if you'll write

for i = 01, 50000

the loop variable is of type LONG and the limit is at 2^31 - 1, more then 2 billion. If that's not enough you can use LONG64, at which point it'll probably be the longevity of the computer that'll determine the limit

Mati Meron | "When you argue with a fool, meron@cars.uchicago.edu | chances are he is doing just the same"