
Subject: Going outside the interger limits
Posted by [lloyd](#) on Tue, 21 Sep 2004 11:22:01 GMT
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Hi all,

Have been muddling about with this problem for the past weeeek, and I'm hoping someone can help.

I'm creating an atmospheric transmission model for the sub-mm/far infrared region. If I try to calculate the spectrum between 1 and 500 wavenumbers (numbers are not important) and I set a high resolution, the end of the spectrum does not seem to have had spectral line data applied to it.

Having looked at where this is happening (at about point number 32700), it lies at the point where an integer runs outside it's limits. Inside the code, if a spectral line value is negative then it gets ignored, hence why I'm assuming (well guessing really) that this is the problem.

I have been through my code and converted as much as I can see into either a long or a float depending on what it needs to be.

Still getting problems!

I was wondering whether there is anyway to tell in IDL if an integer is trying to go outside it's limits? Such as `!except = 2`, or is there a compiler switch which would break the execution if this problem was encountered (the latter would be very handy).

Thanks for any help,

Lloyd Watkin
