
Subject: Re: ERROR: Attempt to subscript B with is out of range

Posted by [dg86](#) on Sat, 27 Dec 2014 18:32:39 GMT

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On Wednesday, December 24, 2014 6:52:13 AM UTC-5, g.na...@gmail.com wrote:

> Hi

>

> I've got a 3D array B[100,200,200]. My array B sometimes contains negative values and other times very large values. In order to make sure that when there are either negative or very large values will set to zero I wrote the following code:

>

> FOR i=0L,199 DO BEGIN

> FOR j=0L,199 DO BEGIN

> WRONG = total((B[* ,i,j] LT 0) OR (B[* ,i,j] GT 10000))

> IF WRONG GT 0 THEN B[* ,i,j]=0

> ENDFOR

> ENDFOR

>

> I got the error Attempt to subscript B with j is out of range. I cannot figure out with this happen with the j variable. Any idea?

1. Here's a nice idiom for setting negative values to zero

b = b > 0.

An even more compact version:

b >= 0.

2. Masking large values similarly is quick and easy

threshold = 10000

b = b * (b le threshold)

The more compact version is

b *= b le threshold

Summarizing the quick way to achieve your goals

b >= 0. ; set negative values to zero

b *= b le threshold ; set large values to zero

TTFN,

David
