
Subject: using the WHERE function on a portion of an array

Posted by [becky_s](#) on Tue, 04 Mar 2008 19:23:56 GMT

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Dear all,

Please lend me your great expertise to help me solve this problem I have with the WHERE function.

I have a 3d array of heights, A, and another 3d array of observations at those heights, B. I have a third 3d array, C. I would like C[0,*,*] to contain values of B only if the corresponding value of A is between 0 and 1; C[1,*,*] would have values of B only if $1 \leq A < 2$, etc.

I thought this could be done via a WHERE function call, such as:
indices = WHERE(A[0,*,*] ge 4 AND A[0,*,*] lt 5, count)
if count gt 0 then C[4,indices] = B[0,indices]

but this does not work. Printing A[0,indices], I can see that these values are not b/w 4 and 5.

On the other hand, if I set each level I am looking at to its own 2d array, i.e.,

leva = A[0,*,*]

levb = B[0,*,*]

levc = C[4,*,*]

use these values in the same code written above, and add the statement at the end that C[4,*,*] = levc, then it works just fine. However, A and B are actually very large, so this isn't an option.

I'm guessing I do not understand some key part of the WHERE function. Would someone please shine some light on this for me? Thanks in advance.

Becky
