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Subject: Re: help with IF statement

Posted by [penteado](#) on Thu, 22 Jan 2015 00:07:40 GMT

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If I am reading it right, your code seems to match your description. Someone here used to say that this usually means there is something wrong with your assumptions about your arrays.

I would suggest checking the types, dimensions and values of some of the relevant expressions in your code, such as `barray`, `other`, `dataarray[* ,i,j]`, `array[i,j]`, `new_data[* ,j,k]` and `mean[j,k]`

By the way, are the expressions with `new_data` and `mean` supposed to be indexed by `j` and `k`? Not `j` and `i`? There is nothing in this code fragment setting the value of `k`. If it is really `k`, check that `j` and `k` were not swapped.

Paulo

On Wednesday, January 21, 2015 at 3:26:59 PM UTC-2, [g.na...@gmail.com](#) wrote:

> Hi

>

> I need some help with an IF statement because I suspect that it's not doing what I really wish to do.

>

> I have a 3D array [120,200,200] which contains my data. Then I am using this matrix to create another matrix. My code looks like this

>

> `DataArray` ; contains the 3D data

> `Mean = total(DataArray[0:4,*,*],1)/5.`

>

> for `i = 0, 199` do begin

>   for `j = 0, 199` do begin

>     `Barray = DataArray[* ,i,j] - Array[i,j]`

>     IF (TOTAL(Barray LT 0)) GT 0 THEN `NEW_DATA[* ,j,k] = Mean[j,k]` \$

>     ELSE `NEW_DATA[* ,j,k] = Mean[j,k] + OTHER`

>   endfor

> endfor

>

> What I wanted to achieve with the above is that if an entry in the `Barray` has a negative value then the `New_Data` it's equals the mean otherwise `NEW_DATA= Mean+ OTHER`.

> My data are images and when I display the images after that I found out that in places that there are not negative numbers the `new_data` array equals the mean only not the whole expression (`Mean[j,k] + OTHER`). Why this happened? It supposed to use the mean only when there are negatives.