
Subject: Re: What could cause disappearing array?
Posted by [R.G.Stockwell](#) on Tue, 19 Jan 2010 23:04:11 GMT
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"Robin Wilson" <r.t.wilson@rmplc.co.uk> wrote in message
news:z7GdnYab-uiEt8vWnZ2dnUVZ8jednZ2d@pipex.net...

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> after a bit of processing one of my arrays seems to disappear.
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> I've checked this with some strategically placed help statements, when it
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> When I comment out all of the code inside the for loop then the loop runs
> perfectly to the end, and i and j don't get reset to zero part way
> through.

So, comment out one line at a time, and see what happens. :)

What does the output of those lines say (print, i,j, and the help commands).
Are you saying that the array segment_image disappears between the seg_id++
statement
(the endfor) and the next print,i print,j,and help, statements?

One note: that array is in a common block, who knows who else is
manipulating it.

One last thing: your comment and your statement don't match.

Subject: Re: What could cause disappearing array?
Posted by [R.G.Stockwell](#) on Tue, 19 Jan 2010 23:05:44 GMT
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"R.G. Stockwell" <noemail@please.com> wrote in message
news:hj5dpa\$V8n\$1@speranza.aioe.org...
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> "Robin Wilson" <r.t.wilson@rmplc.co.uk> wrote in message
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Oops. to elaborate on that (accidently sent the message)
Here.

; If one of the pixels had a inequality value greater than 1 then

continue

if inequality_result EQ 0 THEN CONTINUE

Subject: Re: What could cause disappearing array?

Posted by [robin tw](#) on Wed, 20 Jan 2010 08:42:12 GMT

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Hi,

Thanks for the feedback. Regarding the comment: that's an error in the comment not an error in the code! Silly me!

I've done a bit more investigation into this. I tried something that Jim Pendleton suggested off-list, which was to insert the code `s = n_elements(segment_image)` before my for loop, and then check the number of elements throughout my for loop by using the code `If (s ne n_elements(segment_image)) then stop`, stopping if there's an error.

I tried that, but it didn't catch the error as when `segment_image` disappears it also seems that `s` gets reset to zero. I can't see how that happens as `s` isn't even in the common block.

I've done some more investigation and found that it seems to be related to a for loop that I'm using to call this function. The function below calls the `TRY_PLACING_REGION` (the function I'm having problems with) from a for loop. When I comment out the for loop it runs fine, but with the for loop there I get this strange disappearing act!

The code for the top function is:

```
PRO DEVEREUX_SEG, t
  COMMON SegData, seg_id, segment_image

  ENVI_SELECT, fid=fid, dims=dims, pos=pos

  WholeImage = GET_IMAGE_DATA(fid, dims, pos)

  edge_map = CREATE_EDGE_MAP(WholeImage, 15.0)

  segment_image = lonarr(dims[2] + 1, dims[4] + 1)

  seg_id = long(20)

  FOR win_size = 5, 8 DO BEGIN
    TRY_PLACING_REGION, WholeImage, edge_map, 8
  ENDFOR
```

END

and if I comment out the for loop (ie. just leave the TRY_PLACING_REGION call by itself) then it works fine.

Also, Jim wanted to know if I was doing anything unusual in the INEQUALITY_FUNCTION. As far as I know I'm not - it's just standard IDL code. I've put the function below in case that helps.

```
FUNCTION INEQUALITY_FUNCTION, array, t
  dims = SIZE(array, /DIMENSIONS)

  FOR k = 0, dims[0] - 1 DO BEGIN
    FOR l = 0, dims[1] - 1 DO BEGIN
      FOR b = 0, dims[2] - 1 DO BEGIN
        result = abs(array[k, l, b] - mean(array[* , *, b]))^2 / t[b]
        IF result GT 1 THEN return, 0
      ENDFOR
    ENDFOR
  ENDFOR

  return, 1
END
```

Thanks for all the help so far - I hope we can manage to solve this!

Best regards,

Robin

On 19/01/2010 23:05, R.G. Stockwell wrote:

>

> "R.G. Stockwell" <noemail@please.com> wrote in message

> news:hj5dpa\$vn\$1@speranza.aioe.org...

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Subject: Re: What could cause disappearing array?
Posted by [MarioIncandenza](#) on Thu, 21 Jan 2010 17:17:07 GMT
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```
>> "R.G. Stockwell" <noem...@please.com> wrote in message
>>> One note: that array is in a common block, who knows who else is
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```

Change the loop variables, see what happens.

Subject: Re: What could cause disappearing array?
Posted by [Mark\[1\]](#) on Thu, 21 Jan 2010 22:08:07 GMT
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On Jan 20, 9:42 pm, Robin Wilson <r.t.wil...@rmpic.co.uk> wrote:

```
...  
>  FOR win_size = 5, 8 DO BEGIN  
>    TRY_PLACING_REGION, WholeImage, edge_map, 8  
>  ENDFOR
```

I'm curious about that code. As far as I can see, the loop index, win_size, is not used inside the loop, so this code has the effect of calling TRY_PLACING_REGION four times with the same arguments. Is that what you intended?
