Subject: Re: IDL out of range error
Posted by Suguru Amakubo on Tue, 16 Mar 2010 12:31:14 GMT
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Thank you for the quick response :)

dear pp the error is at the line which has sub.

The dimension of sub and test when using 'help,' command are both (L,L) with index on the corner. As for the index I am using x0 and y0 as the bottom left corner.

sub and test are both portions of the new_image2 from different indexes with fixed dimension (L,L)

dear David Fanning yes I sincerely agree and I have broken down the code in multiple places and the error seems to be present in the line with sub definition. I have checked the values but it seems fine I cannot comprehend why it is stopping me.

Thank you in advance for the kind help. Below is the code that I am stuck on (I have capitalised the line that is causing me the problem), hopefully this will explain what I am trying to do clearly:

```
pro chi_detection,sub

common block_chi, delta, L ,tr_point
common block_monte, size_of_image, new_image, new_image2, mc_point

deltamin = 1e8

nn=n_elements(mc_point(0,*))

tr_point = fltarr(2,nn)


for kk=0L,nn-1 do begin

x0 = mc_point(0,kk)
y0 = mc_point(1,kk)

L = 30
xr=L/2
yr=L/2

SUB = NEW_IMAGE2(X0:X0+L-1, Y0:Y0+L-1)

for i1 = x0-xr+1, x0+xr-1 do begin
```

```
 for i2 = y0-yr+1, y0+yr-1 do begin

  if(i1 le xr) or (i2 le yr) or (i1 ge size_of_image - L - xr) or (i2
ge size_of_image - L -yr) then begin



 if i1 lt xr && i2 lt yr then begin

  test = new_image2(xr:xr+L-1,yr:yr+L-1)

 endif else if i1 lt xr && i2 gt yr  && i2 lt (size_of_image - L -yr)
then begin

  test = new_image2(xr:L+xr-1, i2:i2+L-1)

 endif else if i1 gt xr && i1 le (size_of_image - L -xr) && i2 lt yr
then begin

  test = new_image2(i1:i1+L-1, yr:yr+L-1)

 endif else if i1 lt xr && i2 ge (size_of_image - L - yr) then begin

  test = new_image2(xr:xr+L-1, (size_of_image -L-yr):(size_of_image-
yr-1))

 endif else if i1 ge size_of_image -L -xr && i2 ge size_of_image -L -
yr then begin

  test = new_image2(size_of_image -L -xr: size_of_image-xr-1,
size_of_image -L -yr:size_of_image-yr-1)

 endif else if i1 ge size_of_image -L -xr && i2 le size_of_image - L -
yr && i2 gt yr then begin

  test = new_image2(size_of_image -L -xr:size_of_image -xr-1,
i2:i2+L-1)

 endif else if i1 le size_of_image -L -xr and i2 le size_of_image -L -
yr and i2 gt yr then begin

  test = new_image2(i1:i1+L-1 , size_of_image - L -yr:size_of_image -
yr-1)

 endif else if i1 ge (size_of_image - L - xr) && i2 lt yr then begin

  test = new_image2((size_of_image -L-xr):(size_of_image-xr-1), yr:yr
```

```
+L-1)

 endif

 endif else begin

  test = new_image2(i1:i1+L-1, i2:i2+L-1)


 endelse

   delta = (total(sub-test))^2


   if delta LT deltamin then begin

    deltamin = delta
    fx0=i1  & fy0=i2

   endif

  endfor

 endfor

tr_point(*,kk) = [fx0,fy0]

deltamin = 1e8

endfor

stop
end
```