
Subject: Re: IDL out of range error

Posted by [Suguru Amakubo](#) on Tue, 16 Mar 2010 12:31:14 GMT

[View Forum Message](#) <> [Reply to Message](#)

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

endifor

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

deltamin = 1e8

endifor

stop
end
```
