
Subject: IDL crashes using CONTAINSPOINTS when array exceeds 16x16?

Posted by [dw](#) on Thu, 07 Feb 2002 09:32:26 GMT

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Hi,

I have a little bit of code that removes background around my cylindrical samples by setting the points outside a prescribed circle to a non-zero value (I have to do this to stop SEARCH2D from growing into the background), but I can only do it for an array of 16x16 pixels (and need to go to 370x370). Once I let the indices go to 17x17 or higher it crashes IDL. Any experiences like that out there?

Cheers,
Dorthe

This is my code:

```
*****
```

```
FUNCTION CIRCLE, xcenter, ycenter, radius
points = (2 * !PI / 99.0) * FINDGEN(100)
x = xcenter + radius * COS(points )
y = ycenter + radius * SIN(points )
RETURN, TRANSPOSE([[x],[y]])
END
```

```
.*****
;
.*****
;
```

```
PRO Remove_background
```

```
topColor = !D.N_COLORS-1
LOADCT,0,NCOLORS=!D.N_COLORS-1
```

```
; Read volume file containing 3-D data set
```

```
vol = read_tomo_volume
('d:\recon_volumes\May2001\8_20_I_segm.volume')
```

```
; Extract one 2-d slice
```

```
image=vol[*,* ,40]
```

```
siz = SIZE(image)
x = siz[1]
y = siz[2]
```

```

; Remove 'background' outside sample circle

bytimage = BYTSCL(image,min=0,max=10, TOP=topColor)

WINDOW,1,/PIXMAP,XSIZE=x,YSIZE=y
  TV,bytimage

Xcentre = 330
Ycentre = 330
Radius = 140

circ_roi= CIRCLE(Xcentre,Ycentre,Radius)
PLOTS, circ_roi[0,*], circ_roi[1,*],/DEVICE

mask = image * 0
area = POLYFILLV(circ_roi[0,*],circ_roi[1,*],x,y)

mask[area] =1
CircleImage = mask * image
image_display, CircleImage

; Set pixels outside circle to non-zero value

For i = 0,17 do begin
  For j = 0,17 do begin

inside_circle=obj_new('IDLanROI',circ_roi)
circleOK=inside_circle -> containspoints([i,j])
print, 'circleok:', circleOK

If circleok eq 0 then begin
image[i,j]=30
endif

endfor
endfor

image_display, image

END

```
