
Subject: Re: IDL crashes using CONTAINSPOINTS (not any more)

Posted by [dw](#) on Thu, 07 Feb 2002 13:32:17 GMT

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OK, with help from Dave Fannings website (as usual) I've sorted out my problem.

I had forgotten to destroy my objects and IDL responds by crashing (an error message would be convenient.....)

D

dw@er.dtu.dk (Dorthe Wildenschild) wrote in message
news:<3df19224.0202070132.3b3b23b2@posting.google.com>...

> 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, N_COLORS=!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
```
