## Subject: Re: is there a 3D equivalent of CONTOUR?
Posted by David Fanning on Thu, 08 Oct 2009 13:50:16 GMT

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Dorthe Wildenschild writes:

> excellent, - but I can't get it to work.. not very good at working
> with objects I'm afraid - I do it once every 3 years or so :-)
>
> Here's what I do:
>
> I use LABEL_REGION to separate all the objects in my image and then I
> pick one in a loop structure, representing "t" below
>
>                              ISOSURFACE, label_image,
> t, Outverts, Outconn
>     ; print, outverts
>      Roi=Obj_New('IDLanROI', Outverts, type=2)
>
>      Status = Roi-> ComputeGeometry(Area=area,Perimeter=perimeter,
> Centroid=centroid)
>
>      t_perimeter(r)=perimeter
>      t_area(r-1)=area
>      t_x_center(r)=centroid[0]
>      t_y_center(r)=centroid[1]
>      blob_siz(r)=blob_size[1]
>
> I get lots of values in Outverts, but area, perimeter etc. are all
> zero?
> Any ideas for the slightly incompetent...?

Humm, well, it must have something to do with what you are
passing to isosurface. I have no problems with this code:

```
IDL> vol = loaddata(8)
IDL> minmax, vol
     0 232
IDL> isosurface, vol, 150, verts, conn
IDL> help, verts
    VERTS       FLOAT    = Array[3, 178729]
IDL> roi = obj_new('idlanroi', verts)
IDL> status = roi -> computegeometry(perimeter=p, area=a, centroid=c)
IDL> print, p
    361882.75
IDL> print, a
    5674.0855
IDL> print, c
```

-35.847264      107.88590      42.979445

> BTW, nice to see you're still very active on this site.

"Active" is probably too strong a verb. Most of what is
discussed here these days is over my head. :-)

Cheers,

David

--
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")