
Subject: Re: IsoSurface

Posted by [siliconcube](#) on Thu, 10 Jun 2004 17:45:56 GMT

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David Fanning <davidf@dfanning.com> wrote in message
news:<MPG.1b3136406ab74403989792@news.frii.com>...

> Aleks writes:

>

>> ok here is the problem I have: I'm trying to run a test on different
>> images to figure out how things work. Previously I was helped to find
>> the size of my tiff image. I modified the code accordingly.
>> Unfortunately, when I try to run this code on my images the first
>> Window function shows me all my images but when the execution gets to
>> the second Window Function I lose IDL ie it crashes. I have 81 nearly
>> identical image. (if you would like to see the image you can check it
>> out here http://www.geocities.com/siliconcube/tree_01.tif
>> images were modified with MatLab).

>

> Oh, oh. There's your problem. IDL is not going to
> work with anything created in MatLab!!

>

> (No, I'm kidding. It's just a joke.)

>

>> Can anyone help me identify the
>> problem, is my image not suitable for Iso Surface or am I doing
>> somethign wrong =/.

>

> What makes you think you are doing something wrong?
> Did you get an error when you ran this program? Or
> are you just not seeing anything on your display?

>

> Do you have any idea of the range of values in your
> data? (You could print the min and max of your volume.)
> Is 81 a smart choice for the threshold? Where did 81 come
> from? It seems an odd choice. Maybe you could plot a
> histogram of your volume data and find a value that
> makes more sense for the specific data your have.

>

> Cheers,

>

> David

This is the compilation log that I have when I run the program:

IDL Version 6.0, Microsoft Windows (Win32 x86 m32). (c) 2003, Research Systems, Inc.

```
IDL> .compile test
```

```
% Compiled module: $MAIN$.
```

```
IDL> .go
```

```
% Compiled module: BSORT.  
% Loaded DLM: TIFF.  
% Compiled module: LOADCT.  
% Compiled module: FILEPATH.  
% Compiled module: PATH_SEP.  
% LOADCT: Loading table B-W LINEAR  
% Compiled module: SCALE3.  
% Compiled module: T3D.  
% POLYSHADE: Expression must be an array in this context: POLYGONS.  
% Execution halted at: $MAIN$          19 C:\RS\IDL60\test.pro
```

And this is the code

```
files=findfile('*.tif')  
index=bsort(files, sortedfiles)
```

```
volume=bytarr(761,671,81)  
for j=0,80 do begin  
  image=read_tiff(sortedfiles[j])  
  volume[0,0,j] = image  
endfor
```

```
;Window, Title='Original Image Slices', XSize=800, YSize=500, 1, XPos=0, YPos=0  
LoadCT, 0  
Device, Decomposed=0  
FOR j=0,80 DO TV, volume[*,*,j], j
```

```
Window, 6, XSize=800, YSize=800, Title='Test IsoSurface'  
Scale3, XRange=[0,760], YRange=[0,670], ZRange=[0,80], AZ=-150  
;Shade_Volume, volume, 81, vertices, polygons, /Low  
theHead = PolyShade(vertices, polygons, /T3D)  
TV, theHead
```

end

Thank you
Aleks
