
Subject: Contour lines are disappearing

Posted by [sulli.jj](#) on Tue, 14 Jul 2009 10:27:48 GMT

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I'm trying to draw a shade_surf with a contour plot at ZVALUE =0.
However something is erasing/drawing over my contour lines when I
change the device font size. (Easier to show than to explain.)

Thanks for any insights,

John

```
PRO DISPLAY_TEMP
```

```
Device,decomposed=0
loadct,0,/silent
!P.FONT = 0
Font_Size = 12
Device, Set_FONT='Times*bold*'+strcompress(string(Font_Size),/
remove_all)
```

```
N=512.
```

```
X = (DINDGEN(N)-N/2)/(N/2)
```

```
X = REBIN(X,N,N)
```

```
Y = ROTATE(X,1)
```

```
R = SQRT(X^2.+Y^2.)
```

```
Data = -1d*R^4+1.
```

```
index = WHERE(R GE 1.0)
```

```
Data(index) = !VALUES.F_NAN
```

```
PlotZRange = [-2,3]
```

```
CONTOUR_LEVELS = DINDGEN(10)/10.
```

```
WINDOW,0
```

```
shade_surf,Data,$
```

```
ZRANGE=PlotZRange,$
```

```
ZSTYLE=1,$
```

```
XSTYLE=5,YSTYLE=5,$
```

```
XRANGE=[0,511],YRANGE=[0,511],$
```

```
XTICKFORMAT="(A1)",YTICKFORMAT="(A1)",$
```

```
COLOR=0,BACKGROUND=255,$
```

```
ZTickFormat='(F6.2)',$
```

```
/SAVE
```

```
;Draw Contour with ZVALUE=0, bottom
```

```
contour,Data,$
```

```
XSTYLE=9,YSTYLE=9,$
```

```
XRANGE=[0,511],YRANGE=[0,511],$
```

```

XTICKFORMAT="(A1)",YTICKFORMAT="(A1)",$
ZVALUE=0,$
COLOR=0,$
LEVELS=CONTOUR_LEVELS,$
/NOERASE,$
/T3d

.*****
,
;Now Set_FONT size comically large to illustrate
.*****
,
Font_Size = 38
Device, Set_FONT='Times*bold'+strcompress(string(Font_Size),/
remove_all)

WINDOW,1
shade_surf,Data,$
ZRange=PlotZRange,$
ZSTYLE=1,$
XSTYLE=5,YSTYLE=5,$
XRANGE=[0,511],YRANGE=[0,511],$
XTICKFORMAT="(A1)",YTICKFORMAT="(A1)",$
COLOR=0,BACKGROUND=255,$
ZTickFormat='(F6.2)',$
/SAVE

;Draw Contour with ZVALUE=0 bottom
contour,Data,$
XSTYLE=9,YSTYLE=9,$
XRANGE=[0,511],YRANGE=[0,511],$
XTICKFORMAT="(A1)",YTICKFORMAT="(A1)",$
ZVALUE=0,$
COLOR=0,$
LEVELS=CONTOUR_LEVELS,$
/NOERASE,$
/T3d
END

```
