
Subject: Re: black window on fsc_surface & fsc_surface_log?
Posted by [u2s5thmember](#) on Thu, 12 Aug 2004 20:54:27 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning writes:

> Oh, dear. :-(

Lol... I knew sooner or later you'd feel that way! ;)

scale_vector did the job, thanks! with scale_vector, GridData, y=log10(y), z=log10(z) and FSC_Surface.pro I got something which will be good enough to show my advisor... I think I might look into getting scale_vector.pro to make log scale data more evenly spaced, but it works great for right now.

Back to FSC_Surface_log.pro though... I modified it to handle a log scale y-axis in addition to the the log scale z-axis you added:

~line 1288:

```
yAxis = Obj_New("IDLgrAxis", 1, Color=[0,255,0], Ticklen=0.1, $
Minor=4, Title=ytitle, Range=yrange, Exact=exact[1], /LOG)
```

~line 1306 & ~line 1315:

```
yrange_surf = [10^yrange[0], 10^yrange[1]]
```

~line 1330:

```
thisSurface->SetProperty, XCoord_Conv=xs, $
YCoord_Conv=yrange_surf, ZCoord_Conv=zrange_surf
; originally ZCoord_Conv=zsurf...
; shouldn't it be zrange_surf instead, b/c "zsurf" d.n.e. ?
```

these modifications make the axes look perfect, but somehow only a slice of the data gets plotted and the data is plotted about 1 order of magnitude too high.

with the above modifications to FSC_Surface_log.pro, here's an example program which, on my machine, only shows a slice of the data:

```
;-----  
pro test_surface
```

```
x=[180., 190., 200., 210.]  
y=[1.e-8, 1.e-7, 1.e-6, 1.e-5]  
z=[1.e-3, 1.e-2, 1.e-1, 1.]
```

```
grid=GridData(x, y, z)
```

```
s = Size(grid, /Dimensions)
```

```
yy = Scale_Vector(Findgen(s[1]), Min(y), Max(y))
```

```
xx = Scale_Vector(Findgen(s[0]), Min(x), Max(x))
```

```
FSC_Surface_log, grid, xx, yy, Position=[0,1,0,1,0,1]
```

```
end
```

```
;-----
```

does that show up incorrectly for you? Any ideas?

Thanks in Advance!
