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Subject: Re: bug in contour

Posted by [R.G. Stockwell](#) on Tue, 19 Aug 2003 14:49:46 GMT

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"Reimar Bauer" <R.Bauer@fz-juelich.de> wrote in message  
news:bht7hc\$akln\$1@zam602.zam.kfa-juelich.de...

> Dear all,

>

>

> we found a special bug in contour.

>

> We can't explain where the 1.3 at the yaxis comes from.

>

> This happens only by /fill not by fill=0 and not by /cell\_fill.

>

> The value is alog10 of yrange[0]. If you change the yrange starting at 40  
> then it is 1.6

>

> I have informed CREASO too.

>

> regards

>

> Reimar

Yep, it quacks like a bug.

It seems that the ytickname is being ignored in that situation.

Also, I do see the same type of problem with the /cell keyword  
(the following prints "19" on the y-axis, and not where the y-axis should  
have a value of 19).

```
pro test_contour
erase
x=findgen(100)
y=findgen(100)/99.*70+20
z=randomn(seed,100,100) ;random looks pretty imho
CONTOUR,z,x,y,ylog=1,/cell
end
```

also interesting,

```
> CONTOUR,z,x,y,ylog=1,yr=[16,90],/cell,ytickname=string(findg en(10))
```

prints a "16"

```
> CONTOUR,z,x,y,ylog=1,yr=[17,90],/cell,ytickname=string(findg en(10))
```

prints "17"

```
> CONTOUR,z,x,y,ylog=1,yr=[18,90],/cell,ytickname=string(findg en(10))
```

printms "18"

```
> CONTOUR,z,x,y,ylog=1,yr=[19,90],/cell,ytickname=string(findg en(10))
```

also prints "18"

```
> CONTOUR,z,x,y,ylog=1,yr=[20,90],/cell,ytickname=string(findg en(10))
```

prints "19"

```
> CONTOUR,z,x,y,ylog=1,yr=[22,90],/cell,ytickname=string(findg en(10))
```

prints,"20"

```
> CONTOUR,z,x,y,ylog=1,yr=[10,90],/cell,ytickname=string(findg en(10))
```

behaves as expected

```
> CONTOUR,z,x,y,ylog=1,yr=[40,90],/cell,ytickname=string(findg en(10))
```

prints,"2"

```
> CONTOUR,z,x,y,ylog=1,yr=[40,100],/cell,ytickname=string(find gen(10))
```

behaves properly

also, to switch x and y, the bug appears on the x axis

```
> CONTOUR,z,y,x,xlog=1,xr=[20,90],/cell,ytickname=string(findg en(10))
```

prints,"19" on the x axis.

So, the combo of

1) xylog=1,

2) /fill or /cell,

3) particular range of values (i.e. it almost looks like there are no major ticks being plotted

cause a bug in the axis labelling

IDL 6.0, win2000

-bob

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