
Subject: why does not show the number correctly
Posted by [xiao zhang](#) on Fri, 29 Aug 2008 15:12:52 GMT
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Hi~ everyone. This the the part of my program. The data is all right here, But when I run it , the number of my color bar and the grids does not show right. (Like letter or something) Why is that? Anyone can help?

Thank you

```
device, decomposed=0, retain=2  
window, 1, xsize=np, ysize=nl+10
```

```
;define the display window
```

```
!P.background=FSC_Color('Gray')  
dd=fltarr(np, nl+10, 3)  
dd(*, *, *)=255  
tv, dd, true=3
```

```
r=[255, 255, 000, 204, 000, 153, 102, 051, 204, 051, 051, 102, 051, 000, 1 02, 051, 102, 051, 000, 102]
```

```
g=[255, 102, 102, 153, 204, 102, 000, 204, 255, 000, 051, 000, 051, 000, 0 00, 051, 000, 000, 051, 051]
```

```
b=[255, 153, 102, 102, 102, 204, 051, 204, 051, 153, 051, 102, 102, 204, 0 51, 000, 000, 153, 051, 000]  
tv!ct, r, g, b
```

```
class='!20!b'+  
['0','1','2','3','4','5','6','7','8','9','10','11','12','13','14','15','16','17','18','19','20']  
xxx=indgen(20)*40  
yyy=[nl, nl, nl, nl, nl, nl, nl, nl, nl, nl, nl, nl, nl, nl, nl,  
nl, nl, nl, nl, nl, nl, nl, nl]
```

```
lat_min=-35.3  
lat_max=-28.1
```

```
lon_min=113.64  
lon_max=122.14
```

```
;define the max and min latitude and longitude of the data area
```

```
map=MAP_PROJ_INIT('Polar Stereographic',/  
GCTP, center_longitude=117.89, center_latitude=-31.7, limit=[lat_min, lon_min, lat_max, lon_max])
```

```
r= MAP_PROJ_FORWARD([lon_min, lon_max], [lat_min, lat_max],/  
fill, MAP_STRUCTURE=map)
```

```

result=map_proj_image(percumulus,
[lon_min,lat_min,lon_max,lat_max],MAP_STRUCTURE=map,missing= 0)

;display the data to the map

pos = [0.05, 0.05, 0.95, 0.95]
tvimage,result, position=pos,/KEEP_ASPECT,/tv,order=1

Plot, [r[0,0],r[0,1]], [r[1,0], r[1,1]], Position=pos,/Nodata,
XStyle=5, YStyle=5, /NoErase
MAP_GRID,/label,linestyle=0, map_structure=map,
color=FSC_Color('black'),glinethick=2,charthick=2,charsize=2
; Draw gridlines over the map

MAP_CONTINENTS, map_structure=map,
color=FSC_Color('black'),mlinethick=2
; Draw continent outlines:

for i=0, 19 do begin
    plots,[xxx(i), xxx(i)+40], [yyy(i), yyy(i)], color=i, thick=20,/
device
    xyouts, xxx(i), nl-20,
class(i),charsize=2,charthick=1.5,color=35,/device
endfor
;second step to draw a color bar

Write_Jpeg, 'percumulus2006.jpg', tvrd(true=1), true=1

```

Subject: Re: why does not show the number correctly
Posted by [David Fanning](#) on Fri, 29 Aug 2008 15:20:57 GMT
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xiao writes:

> Hi~ everyone. This the the part of my program. The data is all right
> here, But when I run it , the number of my color bar and the grids
> does not show right. (Like letter or something) Why is that? Anyone
> can help?

It is because the number is a byte, and bytes, when they are converted to strings, are converted "literally". Most literal characters cannot be represented on computers. Make this number an INT before you convert it to a string for display.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: why does not show the number correctly
Posted by [xiao zhang](#) on Fri, 29 Aug 2008 15:29:31 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Aug 29, 10:20 am, David Fanning <n...@dfanning.com> wrote:

> xiao writes:

>> Hi~ everyone. This the the part of my program. The data is all right
>> here, But when I run it , the number of my color bar and the grids
>> does not show right. (Like letter or something) Why is that? Anyone
>> can help?

>

> It is because the number is a byte, and bytes, when they are converted
> to strings, are converted "literally". Most literal characters
> cannot be represented on computers. Make this number
> an INT before you convert it to a string for display.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Sorry David. I am not sure what you mean , do you mean I have to
convert the number in this line? I mean the number in percumulus?

Thank you

```
result=map_proj_image(percumulus,  
[lon_min,lat_min,lon_max,lat_max],MAP_STRUCTURE=map,missing= 0)
```

Subject: Re: why does not show the number correctly
Posted by [David Fanning](#) on Fri, 29 Aug 2008 15:49:55 GMT
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xiao writes:

> Sorry David. I am not sure what you mean , do you mean I have to
> convert the number in this line? I mean the number in percumulus?
> Thank you
>
> result=map_proj_image(percumulus,
> [lon_min,lat_min,lon_max,lat_max],MAP_STRUCTURE=map,missing= 0)

Well, let's see. I didn't run your code, but what the hell is it you mean to have in your class variable? I can't make heads or tails of it. That is probably the problem. :-)

```
IDL> print, class
!20!b0 !20!b1 !20!b2 !20!b3 !20!b4 !20!b5 !20!b6 !20!b7 !20!b8 !20!b9 !
20!b10 !20!b11 !20!b12
!20!b13 !20!b14 !20!b15 !20!b16 !20!b17 !20!b18 !20!b19 !20!b20
```

Those look like bytes converted to strings to me (or something, God knows!). What are they suppose to be?

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: why does not show the number correctly
Posted by [xiao zhang](#) on Fri, 29 Aug 2008 15:53:32 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Aug 29, 10:49 am, David Fanning <n...@dfanning.com> wrote:

> xiao writes:
>> Sorry David. I am not sure what you mean , do you mean I have to
>> convert the number in this line? I mean the number in percumulus?
>> Thank you
>
>> result=map_proj_image(percumulus,
>> [lon_min,lat_min,lon_max,lat_max],MAP_STRUCTURE=map,missing= 0)
>
> Well, let's see. I didn't run your code, but what the
> hell is it you mean to have in your class variable?
> I can't make heads or tails of it. That is probably the
> problem. :-)

>
> IDL> print, class
> !20!b0 !20!b1 !20!b2 !20!b3 !20!b4 !20!b5 !20!b6 !20!b7 !20!b8 !20!b9 !
> 20!b10 !20!b11 !20!b12
> !20!b13 !20!b14 !20!b15 !20!b16 !20!b17 !20!b18 !20!b19 !20!b20
>
> Those look like bytes converted to strings to me (or
> something, God knows!). What are they suppose to be?
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

They are just the number of my color bar. :)

Subject: Re: why does not show the number correctly
Posted by [xiao zhang](#) on Fri, 29 Aug 2008 16:05:34 GMT
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On Aug 29, 10:53 am, xiao <littledd...@gmail.com> wrote:
> On Aug 29, 10:49 am, David Fanning <n...@dfanning.com> wrote:
>
>
>
>> xiao writes:
>>> Sorry David. I am not sure what you mean , do you mean I have to
>>> convert the number in this line? I mean the number in percumulus?
>>> Thank you
>
>>> result=map_proj_image(percumulus,
>>> [lon_min,lat_min,lon_max,lat_max],MAP_STRUCTURE=map,missing= 0)
>
>> Well, let's see. I didn't run your code, but what the
>> hell is it you mean to have in your class variable?
>> I can't make heads or tails of it. That is probably the
>> problem. :-)
>
>> IDL> print, class
>> !20!b0 !20!b1 !20!b2 !20!b3 !20!b4 !20!b5 !20!b6 !20!b7 !20!b8 !20!b9 !
>> 20!b10 !20!b11 !20!b12
>> !20!b13 !20!b14 !20!b15 !20!b16 !20!b17 !20!b18 !20!b19 !20!b20
>

>> Those look like bytes converted to strings to me (or
>> something, God knows!). What are they suppose to be?
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>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
> They are just the number of my color bar. :)

Sorry , David, I just delete the '!20!b' before class ,and then it
works....
