
Subject: Re: map_set miracle II
Posted by [James Kuyper](#) on Fri, 21 Oct 2005 15:20:07 GMT
[View Forum Message](#) <> [Reply to Message](#)

Reimar Bauer wrote:

```
> Hi all,  
>  
>  
> I came across to a nice miracle by solving an other problem.  
>  
> What do you expect by this both calls?  
>  
> cheers  
> Reimar  
>  
>  
>  
> p0lat=0.0001  
> map_set,p0lat,0,0,/mercator,/conti,$  
>   pos=[0.190476,0.235690,0.707143,0.601010],$  
>   con_color=0,$  
>   mlinethick=2,mlinestyle=0,isotropic=0,$  
>   central_azimuth=0,$  
>   clip=1,limit=[-90E,0.0E,90.E,360E]  
>  
>  
> p0lat=0  
> map_set,p0lat,0,0,/mercator,/conti,$  
>   pos=[0.190476,0.235690,0.707143,0.601010],$  
>   con_color=0,$  
>   mlinethick=2,mlinestyle=0,isotropic=0,$  
>   central_azimuth=0,$  
>   clip=1,limit=[-90E,0.0E,90.E,360E]
```

I don't expect much of anything from either call.

You're setting up a Mercator projection, which projects the north pole to +infinity and the south pole to -infinity. Then you tell it to produce a plot of finite size using that projection, where the north pole is at the top of the plot and the south pole is at the bottom of the plot. I don't expect it to work, and I wouldn't be surprised by any particular failure mode.

Subject: Re: map_set miracle II
Posted by [R.Bauer](#) on Sat, 22 Oct 2005 18:37:37 GMT
[View Forum Message](#) <> [Reply to Message](#)

James Kuyper wrote:

> Reimar Bauer wrote:

>> Hi all,

>>

>>

>> I came across to a nice miracle by solving an other problem.

>>

>> What do you expect by this both calls?

>>

>> cheers

>> Reimar

>>

>>

>>

>> p0lat=0.0001

>> map_set,p0lat,0,0,/mercator,/conti,\$

>> pos=[0.190476,0.235690,0.707143,0.601010],\$

>> con_color=0,\$

>> mlinethick=2,mlinestyle=0,isotropic=0,\$

>> central_azimuth=0,\$

>> clip=1,limit=[-90E,0.0E,90.E,360E]

>>

>>

>> p0lat=0

>> map_set,p0lat,0,0,/mercator,/conti,\$

>> pos=[0.190476,0.235690,0.707143,0.601010],\$

>> con_color=0,\$

>> mlinethick=2,mlinestyle=0,isotropic=0,\$

>> central_azimuth=0,\$

>> clip=1,limit=[-90E,0.0E,90.E,360E]

>

> I don't expect much of anything from either call.

>

> You're setting up a Mercator projection, which projects the north pole
> to +infinity and the south pole to -infinity. Then you tell it to
> produce a plot of finite size using that projection, where the north
> pole is at the top of the plot and the south pole is at the bottom of
> the plot. I don't expect it to work, and I wouldn't be surprised by any
> particular failure mode.

ok the limit set default for mercator are

limit= [-80, -180, 80, 180]

but the second seems to work just only if I like to center it it seems to
ignore the size by position. And this is surprising because 0.0001 isn't
quite different from 0. It tells no error, no warning.

