Subject: Re: precisely specifying size of MAP (in IDL5)
Posted by spenton on Wed, 26 Mar 1997 08:00:00 GMT
View Forum Message <> Reply to Message

Greetings,
FYI, the IDL 5 behavior is to not include the
extra 1% spacing around the perimeter of the map if the
noborder keyword is set. Setting noborder=0 gets you the
border, but no space. Setting noborder=1 gets you no border
and no extra space.

```
if keyword_set(noborder) eq 0 then begin
; fudge is used to add a bit of spacing between the border and the
; extent of the map region. fudge of 0.01 indicates that the extra
; spacing (internal map margin) should be 1% of the original map extent.
;
; this extra space is now turned off when the noborder keyword is set
;
   fudge = 0.01
    :
endif
```

In article <1997Mar26.092026@boingo.gsfc.nasa.gov>
nick@boingo.gsfc.nasa.gov (Nick DiGirolamo) writes:
> In article <33380FFC.167EB0E7@igpp.llnl.gov>, Bruce Macintosh
> <bmac@igpp.llnl.gov> writes:
>>
> |> set_plot,'ps'
> |> device,xsize=5,ysize=5,/inches
> |>
> map_set,0.0,0.0,/ortho,position=[0.2,0.2,0.8,0.8],xmargin=0, ymargin=0,$
> |> /isotropic,/noborder
> |> map_grid
> |> device,/close
> |> $lpr idl.ps
> |>
> |> produces a globe somewhat more than 1/16" too small. If I hadn't
> |> specified /noborder, the outer box surrounding the map would have
> |> been 3" on a side...what I want is a way to get rid of the space
> between
> |> the map and that border. I know I could just measure the difference,
> |> but it seems to vary somewhat with different devices/map sizes/etc.
> |>
> |> Bruce
>
> this sounds like a problem i had a couple of years ago when idl version
> 4 came out. setting xmargin and ymargin to 0 no longer removed that

```
>  space
>  between the border and the map.  i went back and forth with idl tech
>  support  on this.  finally, i had to use my own copy of map_set, with a
>  modification  that allowed me to actually set xmargin and ymargin to 0.
>  here's the section
>  of map_set that was modified (all i did was set the fudge factor to 0
>  if xmargin was set to [0,0], similarly for ymargin):
>
>  .
>  .
>  .
>  fudge = 0.01
>  if (xmargin(0) eq 0  and  xmargin(1) eq 0)  then  fudge = 0.
>  if (xmargin(0) eq 0  and  xmargin(1) eq 0)  then  print,'Using local
>  map_set'
>  eps = (umax - umin) * fudge  ;Extend the axes by a Fudge factor
>  umax = umax + eps
>  umin = umin - eps
>
>  fudge = 0.01   ;was 0.01
>  if (ymargin(0) eq 0  and  ymargin(1) eq 0)  then  fudge = 0.
>  if (ymargin(0) eq 0  and  ymargin(1) eq 0)  then  print,'Using local
>  map_set'
>  eps = (vmax - vmin) * fudge
>  vmax = vmax + eps
>  vmin = vmin - eps
>  .
>  .
>  .
>
>  hope this help,
>  nick.
>  --
>
>
>                              Nick DiGirolamo
>                              nick@boingo.gsfc.nasa.gov

--
 ========================================================== ========
Steve Penton <spenton@casa.colorado.edu>        303-492-4053
University of Colorado @ Boulder          NeXTmail Welcome !
Center For Astrophysics & Space Astronomy (CASA)
Campus Box 389    Boulder, Co 80309
 ========================================================== ========
```