Subject: Re: stippling or cross hatching in contour plot
Posted by MA on Mon, 08 Oct 2007 18:48:55 GMT
View Forum Message <> Reply to Message

Hello David,
thanks, that's definitely an improvement. However, I'm still trying to hatch only between two levels (significant areas), not hatch all over the plot. I've modified your code a bit, and now it's working. I basically create a new array from the original, in which I set all points I want to hatch to 1, all points I don't want to hatch over to 0, then contour at levels 1 and above.

```
;********************************************************** **********
;; create some data
array=dist(10,10)

Window,2
loadct,2
;; contour data with color
loadct, 33, ncolors=5, bottom=1
device, decomposed=0, get_decomposed=theState

thisDevice = !D.Name
xsize = !D.X_Size
ysize = !D.Y_Size
Set_Plot, 'Z'
Device, Set_Resolution=[xsize,ysize], Z_Buffer=0
contour,array,levels=indgen(5),c_colors=indgen(5)+1,/fill, $
   xstyle=1, ystyle=1, position=[0.1, 0.1, 0.9, 0.9]
;; try to put hatching on top
locx = [0.1, 0.9] * xsize
locy = [0.1, 0.9] * ysize
snap1 = TVRD(locx[0], locy[0], locx[1]-locx[0]+1, $
           locy[1]-locy[0]+1)
;; create new array for hatching
newarray=array
;; set points I want to hatch over to 1
newarray[Where(array GT 2.5 AND array LT 5.)]=1.
;; set points I don't want to hatch over to 0
newarray[Where(array le 2.5 OR array ge 5.)]=0.
;; contour level=1 and some value above, which results in
;; hatching only over the area where the original array
;; had values between 2.5 and 5.
contour, newarray,levels=[1,2],/overplot, $
   c_orientation=[45]
snap2 = TVRD(locx[0], locy[0], locx[1]-locx[0]+1, $
   locy[1]-locy[0]+1)
```

```
Set_Plot, thisDevice
contour,array, xstyle=1, ystyle=1, /NoData, $
   position=[0.1, 0.1, 0.9, 0.9]
TV, snap1 > snap2, locx[0], locy[0]
device, decomposed=theState
end
 ;************************************************************ ***
```