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Subject: Re: rdpix problem

Posted by knipp on Sat, 28 Jan 1995 13:20:56 GMT

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Hi Robert

I guess the problem lies within the code to set the cursor back to the start of the line, without getting a new line.

Try the following modification of RDPIX (apply it to rdpix or better, code a new my\_rdpix):

vvvvvvvvvvvvvvvvvvvvv SNIP vvv

; \$Id: rdpix.pro,v 1.1 1993/04/02 19:43:31 idl Exp \$

Pro Rdpix, Image,X0, Y0 ;Read the value of the pixel under the cursor

;Display x,y and the pixel value under the cursor

;  
; NAME:  
; RDPIX  
;

; PURPOSE:

; Interactively display the X position, Y position, and pixel value  
; of the cursor.

;  
; CATEGORY:  
; Image display.  
;

; CALLING SEQUENCE:  
; RDPIX, Image [, X0, Y0]  
;

; INPUTS:

; Image: The array that represents the image being displayed. This  
; array may be of any type. Rather reading pixel values from  
; the display, they are taken from this parameter, avoiding  
; scaling difficulties.

;  
; OPTIONAL INPUT PARAMETERS:

; X0, Y0: The location of the lower-left corner of the image area on  
; screen. If these parameters are not supplied, they are  
; assumed to be zero.

;  
; OUTPUTS:

; None.

;  
; COMMON BLOCKS:

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; None.
;
; SIDE EFFECTS:
; The X, Y, and value of the pixel under the cursor are continuously
; displayed.
;
; RESTRICTIONS:
; None.
;
; PROCEDURE:
; Instructions are printed and the pixel values are printed as the
; cursor is moved over the image.
;
; Press the left or center mouse button to create a new line of output,
; saving the previous line.
;
; Press the right mouse button to exit the procedure.
;
; MODIFICATION HISTORY:
; DMS, Dec, 1987.
; Rob Montgomery (rob@hao.ucar.edu), 9/21/92;
; Correct indices for case of !order = 1
; Karlheinz Knipp, IPI (knipp@ipi.uni-hannover.de), JAN 28,'95:
;     mod: tvrdc --> cursor
;         while --> repeat
;             string("12b") --> 29 * (string(8b))
;
;-

```

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on_error,2      ;Return to caller if an error occurs
print,'Press left or center mouse button for new output line.'
print,'... right mouse button to exit.'
s = size(image)
if s(0) ne 2 then message, 'Image parameter not 2d.'
s(1) = s(1)-1 ;To n-1
s(2) = s(2)-1
!err=0
if n_elements(x0) le 0 then x0 = 0
if n_elements(y0) le 0 then y0 = 0
if s(s(0)+1) ge 4 then form = 'F' else form = 'I'
cr = string("15b") ;this codes a newline
form="($,'x=',i4,', y=',i4,', value=',+form+,a)"
formlen = 29      ; kk 950128
ltab = string(8b)  ; kk 950128
for i=2,formlen   do ltab = ltab + string(8b) ; kk 950128

```

```

repeat begin ; ori: !err, while

cursor,x,y,/change,/dev ; ori: tvrdc

if (x le s(1)) and (y le s(2)) and (x ge 0) and (y ge 0) then begin
  if (!order eq 1) then yy = s(2) - y else yy = y

  if !mouse.button eq 0      $
    then print, form=form, x,y,image(x,yy),ltab $
    else print, form=form, x,y,image(x,yy),cr

endif

; original; -----
; tvrdc,x,y,2,/dev
; if (!err and 3) ne 0 then begin ;New line?
;   print,form="($,a)",string("12b")
;   while (!err ne 0) do begin wait,.1 & tvrdc,x,y,0,/dev & end
;   endif
; x = x-x0 & y = y - y0
; if (x le s(1)) and (y le s(2)) and (x ge 0) and (y ge 0) then begin
;   if (!order eq 1) then yy = s(2) - y else yy = y
;   print,form = form, x,y,image(x,yy),cr
; endif
; -----
;

endrep until !mouse.button eq 4

print,form="(/)"
end

```

~~~~~ SNAP ~~~~~

It does work under IDL 3.6 / SunOs 4.1.x

Hope this helps

Karl

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