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):

vvvvvvvvvvvvvvvvvvvvvvvvvv SNIP vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv

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; $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))
;
;-

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)"

; kk 950128: ----------------------------------------
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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    __ _____  __
   / // _  \ / /  Karlheinz Knipp                phone:  +49 511 - 762 4922
  / // /_/ // /   University of Hannover            fax:  +49 511 - 762 2483
 / // ____// /    Institute for Photogrammetry
/ // /    / /     Nienburger Str.1
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/_//_/ /_/ FRG 30167 Hannover e-mail: knipp@ipi.uni-hannover.de