
Subject: Re: IDL: from Sun to MsWindows
Posted by [thompson](#) on Thu, 03 Jun 1993 18:32:24 GMT
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PRO CRS,X_VALUE,Y_VALUE,PRINT_SWITCH,CONTINUOUS=CONTINUOUS,FONT= FONT
;+
; NAME:
; CRS
; PURPOSE:
; This procedure uses the routine CURSOR to find the coordinates,
; expressed in data units, of a point selected with the cursor.
; CATEGORY:
; CALLING SEQUENCE:
; CRS [, X_VALUE [, Y_VALUE [, PRINT_SWITCH ]]]
; OPTIONAL INPUT PARAMETERS:
; PRINT_SWITCH - Switch used to control printing the values of
;   X_VALUE, Y_VALUE to the screen. If not passed,
;   then assumed 0 (no printing) unless no parameters
;   are passed, in which case 1 (printing) is assumed.
; OPTIONAL OUTPUT PARAMETERS:
; X_VALUE - X position in data coordinates of cursor.
; Y_VALUE - Y position in data coordinates of cursor.
; OPTIONAL KEYWORD PARAMETERS:
; CONTINUOUS - If set, then a continuously updated display of the
;   cursor X and Y positions are written to the screen.
;   On systems which support widgets, the text is
;   displayed in a special widget.
;
;   In continuous operation pressing either the left or
;   middle mouse button will print out the current
;   position on a fresh line on the terminal screen.
;   Pressing the right mouse button quits the program.
;   The PRINT_SWITCH parameter controls whether or not
;   the last cursor position is printed or not.
;
;   When CONTINUOUS is set, the PRINT_SWITCH variable is
;   ignored--the position is always printed to the
;   screen.
;
; FONT = Font to use when displaying the CRS widget. Only
;   meaningful when the graphics device supports widgets,
;   and CONTINUOUS is set. If not passed, then the first
;   available 20 point font is used.
; COMMON BLOCKS:
; None.
; SIDE EFFECTS:
; Using the CONTINUOUS keyword on a device without a mouse or trackball
; may not allow the user to exit the program.
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; RESTRICTIONS:
; Use of the CONTINUOUS keyword may not be supported on some more
; primitive graphics terminals.
; PROCEDURE:
; CURSOR is used to get cursor position.
; MODIFICATION HISTORY:
; William Thompson Applied Research Corporation
; September, 1987 8201 Corporate Drive
;   Landover, MD 20785
;
; William Thompson, 13 May 1993, added CONTINUOUS and FONT keywords.
; William Thompson, 1 June 1993, changed to ignore PRINT_SWITCH when
; using in CONTINUOUS mode.
;-
;
; ON_ERROR, 2
;
; Check that a plot has been made.
;
IF (!X.S(1)*!Y.S(1) EQ 0) THEN MESSAGE, $
'Data coordinates not initialized'
;
; Assign the default value of PRINT_SWITCH.
;
IF N_PARAMS(0) LT 3 THEN PRINT_SWITCH = 0
IF N_PARAMS(0) EQ 0 THEN PRINT_SWITCH = 1
;
; If the CONTINUOUS keyword was set, then show a continuous display of cursor
; positions.
;
IF KEYWORD_SET(CONTINUOUS) THEN BEGIN
;
; If the current graphics device supports widgets, then display the text in
; a special text widget.
;
IF HAVE_WIDGETS() THEN BEGIN
TEST = EXECUTE("BASE = WIDGET_BASE(" + $
"TITLE='Cursor Position',/ROW")
TEXT = ''
IF N_ELEMENTS(FONT) NE 1 THEN FONT = '*20'
TEST = EXECUTE("LABEL = WIDGET_TEXT(" + $
"BASE,VALUE=TEXT,FONT=FONT, XSIZE=30")"
WIDGET_CONTROL,BASE,/REALIZE
ENDIF
;
; Keep reading the cursor until the right button is pressed.
;
CR = STRING("15B")

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!ERR = 0
PRINT,'Press left or center mouse button for new output line.'
PRINT,'... right mouse button to exit.'
;
; WHILE !ERR NE 4 DO BEGIN
;   CURSOR,X_VALUE,Y_VALUE,2
;   TEXT = STRTRIM(X_VALUE,2) + ',' + STRTRIM(Y_VALUE,2)
;
; ; If either the left or middle mouse button was pressed, then display a fresh
; ; line on the terminal screen.
;
; IF (!ERR AND 3) NE 0 THEN BEGIN ;New line?
; IF HAVE_WIDGETS() THEN BEGIN
;   PRINT,' Position: ' + TEXT
; END ELSE BEGIN
;   PRINT,FORMAT="($,A)",STRING("12B")
; ENDELSE
; WHILE (!ERR NE 0) DO BEGIN
;   WAIT,0.1
;   CURSOR,X_VALUE,Y_VALUE,0
; ENDWHILE
; ENDIF
;
; ; Display the current cursor position.
;
; IF HAVE_WIDGETS() THEN BEGIN
;   WIDGET_CONTROL, LABEL, SET_VALUE=TEXT
; END ELSE BEGIN
;   PRINT,FORMAT="($,' Position: ',A,' ',A)",$  

;   TEXT,CR
; ENDELSE
; ENDWHILE
;
; ; Close the continuous display.
;
; IF HAVE_WIDGETS() THEN BEGIN
;   WIDGET_CONTROL,/DESTROY, BASE
;   PRINT,' Position: ' + TEXT
; END ELSE BEGIN
;   PRINT,FORMAT="(/)"
; ENDELSE
;
; ; If CONTINUOUS is not set, then simply get a single cursor position from the
; ; screen.
;
; END ELSE BEGIN
;   CURSOR,X_VALUE,Y_VALUE
; ; IF (!D.NAME EQ 'SUN') OR (!D.NAME EQ 'X') THEN TVCRS,/HIDE

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; If requested, print the cursor position.  
;  
IF PRINT_SWITCH NE 0 THEN BEGIN  
 IF !D.NAME EQ 'REGIS' THEN PRINT,STRING(27B) + '[H'  
 PRINT,' Position: ' + STRTRIM(X_VALUE,2) + ',' + $  
 STRTRIM(Y_VALUE,2) + '  
ENDIF  
ENDELS  
;  
RETURN  
END
```
