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 $\geq \dots$

```

; START OF DESCRIPTION

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;
; subroutine      IPI, U Hannover 09'91, modified 11'92
;
; METHOD:         demonstrates different cursor-figures under X-Windows
;
;               uses device, cursor_standard = I
;               click left button: I = I + 1
;               middle " : I = I - 1
;               right  " : QUIT
;
; INPUT  PARAMETER: I_0, I_1  loop-indices [def.; 0, 30]
; OUTPUT PARAMETER: none
; KEYWORDS      : none
;
; EXAMPLE:
;
; demo_x_cursor
;
; END  OF DESCRIPTION
; -----
;-

; -----
; test input

if n_params() ne 0 and n_params() ne 2 then begin
  print,"The number of parameters was wrong:",n_params()
  doc_library,"demo_x_cursor"
  return
endif

if n_params() eq 0 then begin
  I_0 = 0
  I_1 = 30
endif

d1 = I_0 < I_1
d2 = I_0 > I_1
I_0 = d1
I_1 = d2

window, /free, xsize=256,ysize=256
text1 = 'LB to continue  RB to exit'

if !d.name ne 'X' then begin
  xyouts, 32, 256-64, text1, font=0, /device
  xyouts, 32, 256-128,'WARNING : device is NOT x but : '+!d.name, $

```

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        font=0, /device
        cursor, x, y, /wait, /dev
        wait, 0.125
        if !err eq 4 then goto, FINITUM
    endif

    polyfill, [31, 95, 95, 32], [31, 31, 95, 95], color=!d.n_colors-1, /dev
    polyfill, 128+[31, 95, 95, 32], [31, 31, 95, 95], color=get_grey(), /dev

; -----
; test input

device, /cursor_crosshair
tvcrs, 128,64, /dev
text2 = 'device, /cursor_crosshair'
xyouts, 32, 256-64, text1, font=0, /device
xyouts, 32, 256-128, text2, font=0, /device
cursor, x, y, /wait, /dev
wait, 0.125
if !err eq 4 then goto, FINITUM
erase

polyfill, [31, 95, 95, 32], [31, 31, 95, 95], color=!d.n_colors-1, /dev
polyfill, 128+[31, 95, 95, 32], [31, 31, 95, 95], color=get_grey(), /dev

device, /cursor_original
tvcrs, 128,64, /dev
text2 = 'device, /cursor_ornigal'
xyouts, 32, 256-64, text1, font=0, /device
xyouts, 32, 256-128, text2, font=0, /device
cursor, x, y, /wait, /dev
wait, 0.125
if !err eq 4 then goto, FINITUM
erase

polyfill, [31, 95, 95, 32], [31, 31, 95, 95], color=!d.n_colors-1, /dev
polyfill, 128+[31, 95, 95, 32], [31, 31, 95, 95], color=get_grey(), /dev

l=!_0
while l ne l_1 do begin
    device, cursor_standard = l
    tvcrs, 128+64,64, /dev
    text2 = 'device, cursor_standard = '+strcompress(string(l))
    xyouts, 32, 256-64, text1, font=0, /device
    xyouts, 32, 256-128, text2, font=0, /device

```

```
polyfill, [31, 95, 95, 32], [31, 31, 95, 95], color=!d.n_colors-1, /dev
polyfill, 128+[31, 95, 95, 32], [31, 31, 95, 95], color=get_grey(), /dev
cursor, x, y, /wait, /dev
wait, 0.125
if !err eq 4 then goto, FINITUM
if !err eq 2 then l = l-1 else l = l+1
erase
endwhile
```

FINITUM :

```
device, /cursor_original
wdelete
```

```
return
end
```
