WindowScrollUp

BLWindowScrollUp.bas

This subroutine specified rectangle of screen and scrolls it up by a character. You might be able to use it for games (though there are probably faster scrolly routines for that); but the aim here is to be able to scroll up part of the screen, so that you can split between text on a rectangle area and other information elsewhere - e.g. graphic adventures.

```
SUB BLWindowScrollUp(X as uByte, Y as uByte, Width as uByte, Height as uByte)
;Routine for printing and scrolling text in any
;window, anywhere on the screen.
;Main scrolling routine
BLWindowScrollUp:
EX AF, AF'
LD A,(IX+11) ;(ROWS) Store # of Lines in A'
EX AF, AF'
LD
   HL,BLWindowScrollUpScreenTable
                                      ;Start of address table
LD C,(IX+7) ;(Y) Move the "pointer" to the
LD B,0
               ;appropriate position in the table
ADD HL, BC
                ;and store it in (BLWindowScrollPOINT)
ADD HL, BC
   (BLWindowScrollUpPOINT), HL ; Pointer position stored
BLWindowScrollUpLOOP:
       HL,(BLWindowScrollUpPOINT)
   LD
   LD E, (HL)
   INC HL
   LD D, (HL)
   ;Address of start of screen line now in DE
   LD A, (IX+5); (X)
   ADD A, E
   LD E,A
   ;Address of left-hand side of window now in DE
   EX AF, AF'
   DEC A
   JP Z,BLWindowScrollUpBLANK
                                   ;Quit this loop if we have
   EX AF, AF'
   INC HL
                    ;Move the pointer to the next item
   LD
       (BLWindowScrollUpPOINT), HL ; in the table. Save position
   LD
       C,(HL)
   INC HL
                   ;Start of next line down in BC
   LD
       B,(HL)
   LD
       L,(IX+5)
                    ; (X)
       Η,0
   LD
   ADD HL, BC
   ;HL now points to the screen address 8 pixels below
   ;the one held in DE
              ;8 pixel lines to be transferred
   LD B,8
   ; Now move 8 pixel lines up the screen by 8 pixels
   BLWindowScrollUpTRANS:
       LD A,B; Save B
       LD C,(IX+9);(Cols)
LD B,0
       PUSH HL
                        ;Save all registers
       PUSH DE
       LDIR
                        ;Transfer the line of pixels
       POP DE
       POP HL
       ;Move HL and DE down one pixel
       INC D
       INC H
       LD B,A; Recover B
   DJNZ BLWindowScrollUpTRANS
   ;One line of characters has now been transferred
   BLWindowScrollUpLOOP
                                ;Back for next line of characters
;Scrolling finished. Now erase last character line
BLWindowScrollUpBLANK:
LD
   C,8
   L,(IX+9); (COLS)
LD
```

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```
BLWindowScrollUpLOOP2:
   PUSH DE
   LD B,L;(IX+11) - Cols
   XOR A
   BLWindowScrollUpLOOP3:
           (DE),A
       INC E
   DJNZ BLWindowScrollUpLOOP3
   POP DE
   INC D
   DEC C
   JR NZ, BLWindowScrollUpLOOP2
;DJNZ BLWindowScrollUpLOOP2
JP BLWindowScrollEnd
BLWindowScrollUpPOINT: DEFW 0
BLWindowScrollUpScreenTable:
      DEFW 16384
      DEFW 16416
      DEFW 16448
      DEFW 16480
      DEFW 16512
      DEFW 16544
      DEFW 16576
      DEFW 16608
      DEFW 18432
      DEFW 18464
      DEFW 18496
      DEFW 18528
      DEFW 18560
      DEFW 18592
      DEFW 18624
      DEFW 18656
      DEFW 20480
      DEFW 20512
      DEFW 20544
      DEFW 20576
      DEFW 20608
      DEFW 20640
      DEFW 20672
      DEFW 20704
BLWindowScrollEnd:
END ASM
END SUB
```

Usage

BLWindowScrollUp(TopLeftXCoordinate, TopLeftYCoordinate, WidthInCharacters, HeightInCharacters)

The parameters are the X,Y print coordinates of the Top Left corner, width in characters, and height in characters.

Example in use:



```
REM Quick routine to fill the screen with crap so we can demonstrate scrolling.
SUB fillRubbish()
ASM
   LD DE,16384
   LD HL,0
   LD BC,6144
   LDIR
END ASM
END SUB
fillRubbish() ' Fill the screen with stuff.
'actual use demo here:
FOR n=1 to 10
BLWindowScrollUp(3,3,8,15)
BLWindowScrollUp(28,10,3,8)
PAUSE 10
NEXT n
```

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