WindowAttrScrollUp

BLAttrWindowScrollUp.bas

This subroutine specified rectangle of screen and scrolls up just the colour attributes 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. This then is an addendum for windowScrollUP.bas, and can be called with it - probably less useful in its own right. Note that it leaves the last line attributes untouched - it can't know inherently what colour to paint this section.

```
SUB BLAttrWindowScrollUp (X AS UBYTE, Y AS UBYTE, Width AS UBYTE, Height AS UBYTE)
REM Routine, acting as a pair to BLWindowScrollUp.bas that moves the attributes up - and leaves the l
ASM
   LD H,58h ; $5800 = 22528 = Attr start
   LD L,(IX+5); HL now contains correct column, but top row.
   LD A, (IX+7); Y
   CP 8
   JR C, BLAttrWindowScrollUpGotRightThird
   INC H
   CP 16
   JR C, BLAttrWindowScrollUpGotRightThird
   BLAttrWindowScrollUpGotRightThird:
   AND 7
   RRCA
   RRCA
   RRCA ; Three right rotates - same as 5 left rotates = A=A*32
   ADD A,L
   LD L,A; HL now points to correct row, top left corner.
   LD D,H
   LD E,L; Copy HL to DE
   LD BC, 32
   ADD HL,BC; Point HL at one row down.
   LD C,(IX+9); width
   LD B,(IX+11); Height
   DEC B; (We don't scroll past the end)
   BLAttrWindowScrollUpHeightLoop:
   PUSH BC; Save our width and height
   PUSH HL
   LD B,0
   BLAttrWindowScrollUpWidthLoop:
   LDIR; A one instruction width loop:P
   POP DE ; Last run's source is now our destination
   LD H,D
   LD L,E; Copy into HL
   LD BC,32
   ADD HL,BC; Move HL down one row
   POP BC; get our counters back
   DJNZ BLAttrWindowScrollUpHeightLoop; Dec height, and if we haven't run out of rows, go do another
END ASM
END SUB
```

Usage

BLAttrWindowScrollUp(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 of use:

```
REM Put something on screen:

FOR n=1 to 12
PRINT INK RND *7; PAPER RND * 7; "0123456789012345678901";
PRINT INK RND *7; PAPER RND * 7; "0ABCDEFGHI0KLMNOPQRS0UVWXYZABC0D";
NEXT n

REM Scroll it slowly:
FOR n=1 TO 10
BLAttrWindowScrollUp (3,3,8,15)
BLAttrWindowScrollUp (28,10,3,8)
PAUSE 100
NEXT n
```

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