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10 ; Software 'SCREEN SCROLL' Routine
20 ;
30 ; S.Woodford      [ JAN 1985 ]
40 ; *****
50 ;
60 ; Syntax of command is :-
70 ;
80 ; !SCROLL
90 ; !SCROLL ,F
100 ; !SCROLL ,A,B,C,D,E,F,G
110 ;
120 ; Were A = Left   most column of area to SCROLL
130 ;        B = Right most column of area to SCROLL
140 ;        C = Top   most row of area to SCROLL
150 ;        D = Bottom most row of area to SCROLL
160 ;        E = 0 to SCROLL down or >0 to SCROLL up
170 ;        F = Number of SCROLLS to perform.
180 ;        G = Encoded ink colour to set vacant line to
190 ;
200 ;        (One SCROLL will move all text and graphics
210 ;         up one character line within the area set.)
220 ;
230 ; *****
240 RSX: EQU #BCD1
250 SWROLL: EQU #BC50
260 CHRLIM: EQU #BC17
270
280     ORG 43796
290     ENT $

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300
310     LD BC,COMTAB ;
320     LD HL,BUF ;
330     CALL RSX ; log on command !SCROLL
340     RET
350
360 COMTAB: DEFW TABLE
370         JP SCROLL
380 TABLE: DEFM "SC"
390         DEFM "RO"
400         DEFB "L", "L"+#80
410         DEFB #00
420
430 SCROLL: CP #00
440         JR Z,FULL ; !SCROLL
450         CP #01
460         JR Z,PART ; !SCROLL ,F
470         CP #07
480         RET NZ ; Syntax Incorrect
490
500
510     LD A,(IX+00) ; get encoded ink colour
520     LD C,(IX+02) ; get number SCROLLS to perform
530     LD B,(IX+04) ; get if up or down SCROLL
540     LD E,(IX+06) ; get bottom row
550     LD L,(IX+08) ; get top row
560     LD D,(IX+#0A) ; get right column
570     LD H,(IX+#0C) ; get left column
580

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590	JR	CHECK		800	POP	BC	
600				810	LD	A,#00	;
610	LOOP:	PUSH	AF	820	LD	B,#01	
620		PUSH	HL	830	LD	E,#18	; Load Parameters
630		PUSH	BC	840	LD	L,A	
640		PUSH	DE	850	LD	H,A	;
650		CALL	SWROLL	860			
			; save parameters	870	CHECK:	PUSH	AF
660		POP	DE			LD	A,C
			; call ROM routine SCR SW ROLL	880		CP	#00
670		POP	BC			JR	Z,EXIT
			; get parameters	890			; Return To Basic If Zero SCROLLS
680		POP	HL	900		POP	AF
690		POP	AF	910		JR	LOOP
700		DEC	C				; OK. Lets Roll .
			; ALL SCROLLS Complete?	920	EXIT:	POP	AF
710		RET	Z	930		RET	
			; Yes.	940			
720		JR	LOOP	950			
			; NO.	960		END	
730				970			
740	FULL:	LD	C,#19	980	;	BUFFER	for use by ROM routine RSX ' KL LOG EXT '
750		JR	SETUP	990			
760	PART:	LD	C,(IX+00)	1000	BUF:	DEFS	#04
770	SETUP:	PUSH	BC				
780		CALL	CHRLIM				
			; Get Screen Size.				
790		LD	D,B				

```
5 REM LISTING NO TWO
10 MEMORY &AB13
20 X=&AB14:Z=0
30 :
40 FOR A=1 TO 107
50     READ A#
60     POKE X,VAL("&" +A#)
70     X=X+1
80     Z=Z+VAL("&" +A#)
90 NEXT
100 :
110 IF Z<>&2E50 THEN 300
120 PRINT"DATA LOADED "
130 CALL &AB14: ' Log On Command
140 PRINT:PRINT"DO YOU WANT TO SAVE
CODE TO TAPE"
150 INPUT T#:IF UPPER$(LEFT$(T#,1))=
"Y" THEN 310
```

```
160 NEW
170 :
180 DATA 01,1E,AB,21,7B,AB,CD,D1,BC,C9
190 DATA 23,AB,C3,2A,AB,53,43,52,4F,4C
200 DATA CC,00,FE,00,28,2D,FE,01,28,2D
210 DATA FE,07,C0,DD,7E,00,DD,4E,02,DD
220 DATA 46,04,DD,5E,06,DD,6E,08,DD,56
230 DATA 0A,DD,66,0C,18,24,F5,E5,C5,D5
240 DATA CD,50,BC,D1,C1,E1,F1,0D,C8,18
250 DATA F1,0E,19,18,03,DD,4E,00,C5,CD
260 DATA 17,BC,50,C1,3E,00,06,01,1E,18
270 DATA 6F,67,F5,79,FE,00,28,03,F1,18
280 DATA D3,F1,C9,00,00,00,00
290 :
300 PRINT"DATA ERROR..PLEASE CHECK DATA
STATEMENTS ! ":STOP
310 SAVE"SCROLL",B,&AB14,&6B,&AB14
320 STOP
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```
5  REM LISTING NO THREE
10  MODE 0
20  COUNT=30
30  RANDOMIZE TIME
40  WHILE COUNT <> 0
50  A=9-INT(RND*10)
60  B=19-INT(RND*10)
70  C=12-INT(RND*13)
80  D=24-INT(RND*13)
90  E=INT(RND*2)-1
100 F=ABS(D-C)
110 G=INT(RND*256)
120 !SCROLL,A,B,C,D,E,F,G
130 COUNT=COUNT-1
140 WEND
150 MODE 1:FOR X=0 TO 24:
SCROLL,0,39,0,24,1,1,INT
(RND*256):NEXT
160 D=1
170 FOR X=0 TO 19
180 !SCROLL,X,39-X,0,24,D,1,0
190 NEXT
200 IF D=0 THEN 220
210 D=0:GOTO 170
220 RESTORE 280:MODE 0
230 READ A$:IF A$="ZZZ" THEN 300
240 LOCATE 10-INT(LEN(A$)/2),12:PRINT A$;
250 FOR T=1 TO 1000:NEXT
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```
260 !SCROLL,0,19,0,11,1,1,0
270 GOTO 230
280 DATA THIS IS,AN EXAMPLE,OF HOW,TEXT &
GRAPHICS
,CAN BE,SCROLLED,ON SCREEN
290 DATA ZZZ
300 MODE 1:FOR X=1 TO 24:PRINT STRING$(
40,64+X);
310 P=INT(RND*4):IF P=0 THEN 310
320 PEN P
330 NEXT
340 FOR X=1 TO 12
350 !SCROLL,0,39,0,12,0,1,0
360 !SCROLL,0,39,13,24,1,1,0
370 NEXT
380 !SCROLL,0,39,0,13,1,12,0
390 !SCROLL,9,29,0,24,0,24,0
400 !SCROLL,14,24,0,24,1,24,0
410 !SCROLL,17,21,0,24,0,24,0
420 !SCROLL,19,19,0,24,1,24,0
430 MODE 2
440 FOR X=1 TO 640 STEP 3
450 MOVE 320,0
460 DRAW X,400
470 NEXT
480 !SCROLL,0,79,0,12,1,13,0
490 !SCROLL,0,79,13,24,0,12,0
500 CLS:PEN 1
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