

Video Roll Up / Down Functions - VRUX & VRDX.

DEPENDENCIES: NONE
 ROUTINES USED: BCDBIN @ 02E3 PBYTCX @ 6FF2 ERRNE @ 02E0
 IAUNA @ 6DB2 ENCP00 @ 0952
 INPUT: Number of lines to be rolled in user X register
 OUTPUT: Assumes primary print device is a T.V Interface, sends repeated ESC S or ESC T commands depending on which routine was called (VRUX/VRDX respectively).
 ERRORS: If no print device is found gives NONEXISTENT, unless X = 0.
 Gives NONEXISTENT if X > 999 (due to use of BCDBIN).

x0A4	FUNCTION	VRDX	
x0A8	VRDX:	READ 3(x)	; Get number of lines to be scrolled
		NC XQ BCDBIN	; Convert to binary, ERRNE if > 999
		C=0 MS	; Indicate ROLL DOWN
	COMMON:	M=C	; Save direction and number of rolls
		?C#0 S&X	; If number of rolls = 0 then
		NC RTN	; end immediately
		READ 14(d)	; Temporarily hold user flags in
		WRIT 9(Q)	; the Q register whilst we set flag 15
		RCR 9	
		C<>ST	
		SETF 4	; SF 15 -
		C<>ST	; TRACE MODE
		RCR 5	
		WRIT 14(d)	; Store temporary status
		NC XQ IAUNA	; Initialize output
		JNC+ ERRNTV	; If no printer jump to ERRNTV below
		C=M	; Restore direction and number of rolls
		A=C ALL	; and put it in A
	LOOP:	LDI 01B <ESC>	
		NC XQ PBYTCX	; Send ESC character
		?A#0 MS	
		JCT+ COM1	; Jump for Roll Up
		LDI 05F <T>	; Here for Roll Down
		JNCT+ COM2	
	COM1:	LDI 053 <S>	
	COM2:	NC XQ PBYTCX	; Send Roll character
		A=A-1 S&X	; Decrement number of rolls
		?A#0 S&X	; If not zero then
		JC- LOOP	; go back around the loop again
		NC XQ ENCP00	; Finally enable status register
		READ 9(Q)	; Get back original flags
		WRIT 13(d)	; and save them in correct register
		RTN	; End - flag 15 is unchanged
x0D0			
x0D1	FUNCTION	VRUX	
x0D5	VRUX:	READ 3(x)	; Same as VRDX but sets [MS]=1
		NC XQ BCDBIN	; to indicate Roll Up
		C=0 MS	
		C=C+1 MS	
		JNC- COMMON	; Join common part of routine
	ERRNTV:	NC XQ ENCP00	; If no printer attached
		READ 9(Q)	; Restore status register d
		WRIT 14(d)	; (contains correct flag 15 value)
		NC GO ERRNE	; Give Error Message NONEXISTENT