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; Subroutine FASTCLS
; Purpose - to clear the
; screen as fast as possible.
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	ORG &9000		T-states
	DI	; DI for higher speed	4
	PUSH HL	; Store all registers used	11
	PUSH DE		11
	PUSH BC		11
	PUSH AF		11
	LD C,&08	; 8 lines to clear	7
	LD (STAK),SP	; save SP	20
	LD DE,&0080	; offset between blocks	10
	LD SP,&FF80	; top of screen	10
OLP			
	LD H,D	; bytes to put into screen	4)
	LD L,D	; quicker than LD HL,0	4)
	LD B,&3C	; counter 60 times	7)
ILP			
	PUSH HL	; clear 2 bytes 16 times	
	PUSH HL		
	PUSH HL	; NB	
	PUSH HL	; 11*16=176 Tstates	
	PUSH HL	; for these pushes	
	PUSH HL	; add 13 for DJNZ	
	PUSH HL	; therefore 189 T-states	
	PUSH HL	; for this inner loop	
	PUSH HL	; except last when 184	
	PUSH HL	; 60*189=11340 - 5	
	PUSH HL	; total =11335 T states for	
	PUSH HL	; everything in ILP	
	PUSH HL		
	PUSH HL		
	PUSH HL		

PUSH	HL		11335)
DJNZ	ILP	; repeat	
ADD	HL,SP	; SP into HL	11)
AND	A	; clear Carry	4)
SBC	HL,DE	; subtract offset	15)
LD	SP,HL	; into stack pointer again	11)
DEC	C	; decrement block counter	4)
JR	NZ,OLP	; loop back for next block	12)
			-5 for true
			11407*8=91256
; less 5 once when JR is false		92272-5=	91251
LD	SP,(STAK)	; restore stack pointer	20
POP	AF	; Restore registers	11
POP	BC		11
POP	DE		11
POP	HL		11
EI		; restore interrupts	4
RET		; and return	10
STAK			
DEFW	0	; to store stack pointer	
		Total=91444 T-states	
		at 4 Mhz=.022 secs	
; Compare with			
; LD	HL,&C000	10	
; LD	DE,&C001	10	
; LD	BC,&3FFF	10	
; LD	(HL),0	10	
; LDIR		21*&3FFE+16 when BC=0 =344038	
; RET		10	
; Total	344088 T states	at 4 Mhz=.08 secs.	