

If the home computer is going to be left on 24 hours a day (hopefully doing some useful things) then it would only seem natural that it should be serving as a clock, also ... and not a hexadecimal or octal clock! Lindsay has got a program for turning your KIM-1 into a clock. (Sounds like a good place for interrupts to be applied.) — John.

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P.C.
0200 A2 EA LDX SET NO. OF LOOPS FOR 1 SECOND
      CA DEX
      A5 60 LDA STORE HOURS IN Fb
      85 Fb STA
      A5 61 LDA STORE MIN'S IN FA
      85 FA STA
      A5 62 LDA STORE SEC'S IN F9
      85 F9 STA
      86 63 STX SAVE X
      84 64 STY (NOT NECESSARY, FILLER)
      20 1F 1F "SCANDS" (DISPLAY TIME)
      A6 63 LDX
      A4 64 LDY
      E0 00 CPX TO LOOP (TO 0202)
      d0 E4 BNE
      F8 SED SET DECIMAL MODE TO AVOID HEX DIGITS
      38 SEC SET CARRY
      A9 00 LDA
      65 62 ADC ADD A+C+M → A (0+1+SEC → ACC.)
      85 62 STA STORE IN 62 (SEC) (ACC → 62)
      d8 64 CLD CLEAR DECIMAL MODE FOR "SCANDS"
      C9 60 CMP TO LOOP (TO 0200) (RESETTING LOOP FOR NEW SECOND)
      d0 d5 BNE
      F8 SED SAME AS SECONDS
      38 SEC
      A9 00 LDA
      85 62 STA RESET SEC TO 00
      65 61 ADC ADD 0+1+MIN → ACC
      85 61 STA STORE IN 61 (MIN) (ACC → 61)
      d8 64 CLD
      C9 60 CMP TO LOOP (TO 0200)
      d0 C6 BNE
      F8 SED SAME AS MINUTES
      38 SEC
      A9 00 LDA
      85 62 STA RESET SEC TO 00
      85 61 STA RESET MIN TO 00
      65 60 ADC ADD 0+1+HRS → ACC
      85 60 STA
      d8 64 CLD
      C9 13 CMP FOR 24 HR CLOCK
      d0 b5 BNE 47-C9, 24
      A9 01 LDA 4bA9, 00
      85 60 STA 4F C9, 00
      85 60 STA
      C9 01 CMP TO LOOP (TO 0200)
      F0 AD BEQ
0253 20 5C 18 DISPLAY 0000
      ERROR EXIT

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H	R	MIN	SEC
1	0	1	0
Fb	FA	F9	
(0060)	(0061)	(0062)	

} COUNT  
SECONDS

} COUNT  
MINUTES

} COUNT  
HOURS

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Program A.  
KIM-1 Clock -Displays HHMMSS.  
Key in hours at 0060, minutes at 0061, seconds at 0062.  
Key in 0200, then GO.

# Found:

# A Use for Your Computer!

... a clock program for the KIM