

Once this routine has been loaded and the reflective address changed the repeat is available to any program using CHIN. But take care not to corrupt any of the program otherwise no characters can be entered - even monitor commands - and a reset will be required to put the reflective address back to normal.

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0010 ;      *** KEYBOARD REPEATER ***
0020 ;
0030 ; By E. Pounce                                October 1979
0040 ;
0069 0050 KBD      EQU #0069 ; Keyboard routine
0C01 0060 KMAP     EQU #0C01 ; Current key map
04F6 0070 SRLIN    EQU #04F6 ; Serial input routine
      0080 ;                      for T4 monitors
      0090 ;
0C50 0100          ORG #0C50 ; Origin of workspace
0001 0110 CHRSTR   DEFS 1 ; Last valid character seen
0001 0120 RATE     DEFS 1 ; Repeat rate temporary store
0008 0130 KMAPC     DEFS 8 ; Copy of last 8 of KMAP
      0140 ;
0C5A CD6900 0150 RT0      CALL KBD ; Scan for new character
0C5D C5      0160          PUSH BC ; Save status
0C5E D5      0170          PUSH DE
0C5F E5      0180          PUSH HL
0C60 11020C 0190          LD DE, KMAP+1 ; Set up pointers
0C63 21500C 0200          LD HL, CHRSTR ; Start of work area
0C66 010800 0210          LD BC, 8 ; Length of KMAP used
      0220 ;      Note: last 8 bytes only used
0C69 300B    0230          JR NC RT2 ; No character ?
      0240 ;
      0250 ; New character from KBD call
0C6B 77      0260          LD (HL), A ; Store character
0C6C 23      0270          INC HL
0C6D 70      0280          LD (HL), B ; Zero repeat rate counter
0C6E 23      0290          INC HL
0C6F EB      0300          EX DE, HL ; Set up to copy KMAP
0C70 EDB0    0310          LDIR ; Copy KMAP into KMAPC
      0320 ;
0C72 E1      0330 RT1      POP HL ; Restore status
0C73 D1      0340          POP DE
0C74 C1      0350          POP BC
0C75 C9      0360          RET ; Return from routine
      0370 ;
      0380 ; No character found from KBD call
0C76 7E      0390 RT2      LD A, (HL) ; Is a character stored ?
0C77 B7      0400          OR A
0C78 2810    0410          JR Z RT5 ; No, jump to exit
      0420 ;
0C7A E5      0430          PUSH HL ; Save the pointer
0C7B 23      0440          INC HL ; Point to counter store
0C7C EB      0450          EX DE, HL ; Set up to compare
0C7D 13      0460 RT3      INC DE ; Inc to next KMAPC byte
0C7E 1A      0470          LD A, (DE) ; Compare KMAP with KMAPC
0C7F EDA1    0480          CPI
0C81 2005    0490          JR NZ RT4 ; Not equal
0C83 E2900C 0500          JP PO RT6 ; Equal: end of compare

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