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; The EPROM code will reside at 0H in RAM on the board with the diagnostic
; code above the basic hardware. RAM is at 800H-0FFFH
;
OLD_BOARD EQU FALSE

STACK EQU 0FFFH ;Stack at top of RAM
;
IF OLD_BOARD
CONT$A EQU 0F9H ;CTRL port for output to Video board keyboard
input port
CONT$B EQU 0FBH ;CTRL port for IBM Keyboard input
CONT$C EQU 0F5H ;CTRL port for data port KEYCLEAR
CONT$D EQU 0F7H ;CTRL port for port KEYSTAT

KEYOUT EQU 0F8H ;Data port for output to Video board keyboard
input port
KEYIN EQU 0FAH ;Data port for IBM keyboard input
KEYCLEAR EQU 0F4H ;Pulsing bit 0 high clears 74LS161 Shift Regs
KEYSTAT EQU 0F6H ;Input bit 0 is zero if IBMPC Key char ready
;to be read and translated

ELSE

CONT$A EQU 0F5H ;CTRL port for output to Video board keyboard
input port
CONT$B EQU 0F7H ;CTRL port for IBM Keyboard input
CONT$C EQU 0F9H ;CTRL port for data port KEYCLEAR
CONT$D EQU 0FBH ;CTRL port for port KEYSTAT

KEYOUT EQU 0F4H ;Data port for output to Video board keyboard
input port
KEYIN EQU 0F6H ;Data port for IBM keyboard input
KEYCLEAR EQU 0F8H ;Pulsing bit 0 high clears 74LS161 Shift Regs
KEYSTAT EQU 0FAH ;Input bit 0 is zero if IBMPC Key char ready
ENDIF
;
; Bit flags for PIO#2: Port Stat:-
;
; Bit 0 not used (used to clear 74LS161 shift regs)
;
; Bit 1 Strobe for data into Video board keyboard port
;
; Bit 2 = 1 if Upper Case Lock is ON
;
; Bit 3 = 1 if Shift key is currently HELD down
;
; Bit 4 = 1 if Ctrl key is currently HELD down
;
; Bit 5 = 1 if NUM LOCK is ON
;

ORG 0H ;The EPROM code will start here
;
DI ;Just in case
LD A,0FH ;First setup the two Zilog PIO's
OUT (CONT$A),A ;Mode 0 Output
LD A,03H
OUT (CONT$A),A

LD A,4FH ;Mode 1 Input
OUT (CONT$B),A
LD A,03H
OUT (CONT$B),A

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LD    A,0FH          ;Mode 0 Output
OUT   (CONT$C),A
LD    A,03H
OUT   (CONT$C),A

LD    A,4FH          ;Mode 1 Input
OUT   (CONT$D),A
LD    A,03H
OUT   (CONT$D),A

IN    A,(KEYIN)      ;PIO Check
LD    C,A
LOOP: LD    B,80H
LOOP2: LD    A,0FFH
LOOP1: DEC   A
      JP    NZ,LOOP1
      DJNZ LOOP2
      LD   A,C
      OUT  (KEYOUT),A
      INC  C
      JP  LOOP

;
;END

```