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;
;Basic 6502 Test ROM
;By John Monahan 1/22/2012

;base page for io on the S100Computers Serial I/O Card
io      =      $f800 ; This is the default IO page for the S100Computers 6502 CPU Card
CONDATA =      io+$01 ;Console Data port (S-100 Propeller Console IO Board)
CONSTATUS = io+$00 ;Consol Status port (S-100 Propeller Console IO Board)
IOBYTE =      io+$EF ;IOBYTE (Front panel)
;-----

; Initialize the hardware we are going to use for I/O
; NOTE NO RAM IS USED IN THIS PROGRAM (No Stack)

      *=      $F900      ;<=====
ENTRY SEI          ;Disable interrupts
      LDX      #$FF      ;Set stack pointer
      TXS          ;to 0FFH

      lda      #'1'
      STA      CONDATA      ;Send Immediatly to port
      lda      #'2'
      STA      CONDATA
      JMP      OVER

INTRO .byte $0D,$0A
      .byte "S-100 6502 I/O test."
      .byte $0D,$0A
      .byte "Will display continously IOBYTE ASCII value on Console"
      .byte $0D,$0A,$0A,$0A
INTRO_LENGTH .EQU $ - INTRO

OVER  lda      #'@'
      STA      CONDATA

CONOUT1      LDA      #%00000100
      AND      CONSTATUS      ;are we ready to output data
      BEQ      CONOUT1
      LDA      INTRO,X          ;Pick up first character (INTRO + 0 offset)
      STA      CONDATA          ;Write to output port 1
      INX
      CPX      #INTRO_LENGTH
      BNE      CONOUT1

CONOUT2      LDA      #%00000100
      AND      CONSTATUS      ;are we ready to output data
      BEQ      CONOUT2
      lda      #'#'
      STA      CONDATA

CONOUT3      LDA      #%00000100
      AND      CONSTATUS      ;are we ready to output data
      BEQ      CONOUT3
      LDA      IOBYTE
      STA      CONDATA
      JMP      CONOUT3

; Set the Reset vectors for our system

      *=      $FFFA
      .word  ENTRY
      .word  ENTRY
      .word  ENTRY
      .end

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