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*
* bled.asm ---- Example program for the Ep2711E9 Rev. C board
*               (c)2003, EVBplus.com
*
*      Function: It makes PB7 blink
*
*
*
PORTB: equ      $4           ; portB offset
REGBASE equ     $1000
*
stack: equ      $FF
*
*      org      $9000
main:
*      ldx      #$7a12       ; load reg. X with the counting value for the
*                               ; off cycle ($7A12)
*      ldy      #$f424       ; load reg. Y with the counting value on cycle
*
loop   ldaa     #$7f         ; OFF LOOP:
*      anda     PORTB+REGBASE ; A (01111111) is "anded" with the pattern
*                               ; currently hold in PORTB. The result in
*                               ; put in A. In this way we affect only the
*                               ; pin 7 of PORTB.
*
*      staa     PORTB+REGBASE
*      nop
*      nop
*      nop
*      nop
*      nop
*      nop
*      nop
*      nop
*      dex
*      bne     loop         ; decrement reg. X (3 cycles)
*                               ; branch on not equal to Zero (3 cycles)
*
*      ldx      #$7A12       ; reload the counter value to reg. X (7A12)
*
*
loop2  ldaa     #$80         ; ON LOOP:
*      oraa     PORTB+REGBASE ; complement bit 7 of PORTB
*      staa     PORTB+REGBASE
*      nop
*      nop
*      nop
*      nop
*      nop
*      nop
*      nop
*      dey
*      bne     loop2        ; decrement reg. Y (4 cycles)
*                               ; branch on not equal to Z (3 cycles)
*
*      ldy      #$f424       ;reload the counter value to reg. Y ($f424)
*
*      bra     loop         ;the loop will continue forever
*
*
*      org      $FFFE       ; reset vector
*      fdb     main         ; start of the program (text)
*      end

```