

Ubi no Timer 1 wala wire, PORTB ; 100
 prescaling (1000000 / 64000000)

PORTB, 4 XTAL = 1MHz $\rightarrow T_{cycle} = \frac{1}{1MHz} =$

prescaling $\rightarrow T_{clock} = 100 \times 0.1 \mu s$ 0.01 ms

$$\frac{15}{100 \mu s} = \frac{10^6}{100} = \frac{10000}{100} = \frac{1000}{100} = 10 \text{ clocks}$$

$$1 + 0xFFFF - 0xVAIK = \frac{10000}{100} = 100$$

#include "avr/io.h" 100

void T1Delay(); TCCR1B

int main() { 0x04

DDRB = 0xFF; // PORTB output port

while(1) {

PORTB = PORTB ^ (1 << PB4); // toggle PB4

T1Delay();

}

}

void T1Delay() {

TCNT1H = 0x85; // TEMP = 0x85 0x85
 TCNT1L = 0xEE; 0xEE

timer counter TCCR1A = 0x00; // Normal mode

Control register TCCR1B = 0x04; // prescaler 256

while ((TIFR & (0x1 << TOV1)) == 0); // wait

stop TCCR1B = 0;

TIFR = 0x1 << TOV1; // clear TOV1

for TOV1 to roll over

}