CLK
16MHz

T∅
T1
T2

T∅ 8bit delay
        millis
T1 16bit servo
T2 16bit tone

CLK 16 MHz PRE % → T1 0.....65525 FFFF
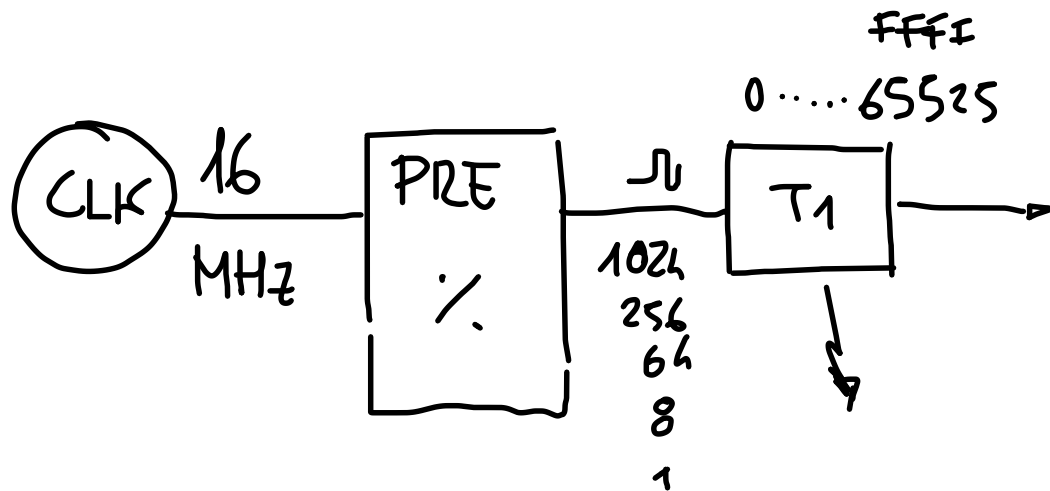
1024
256
64
8
1
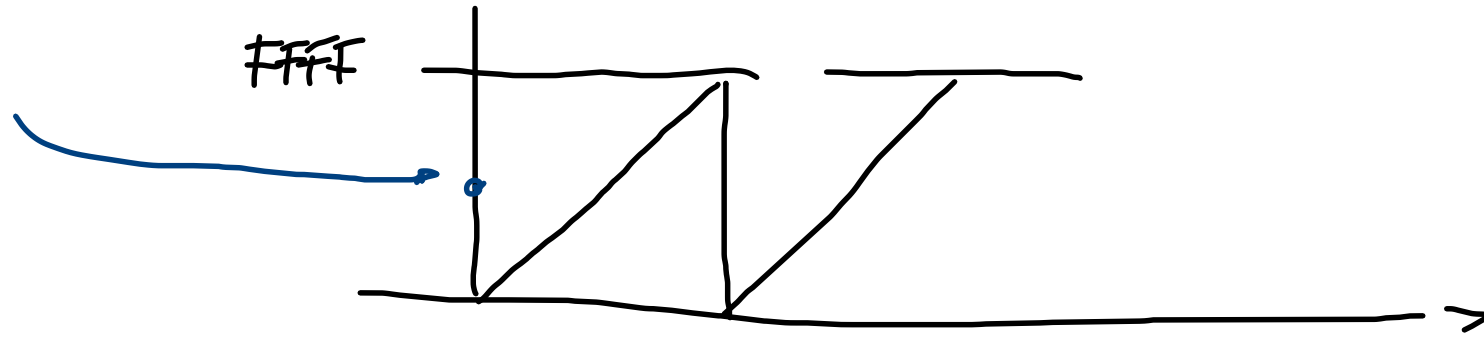
TCCR1B
TCCR1A

TCNT1

270

8
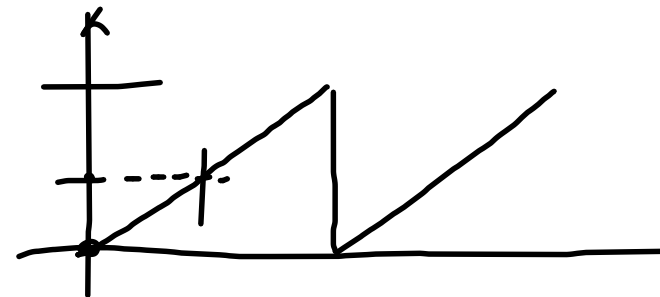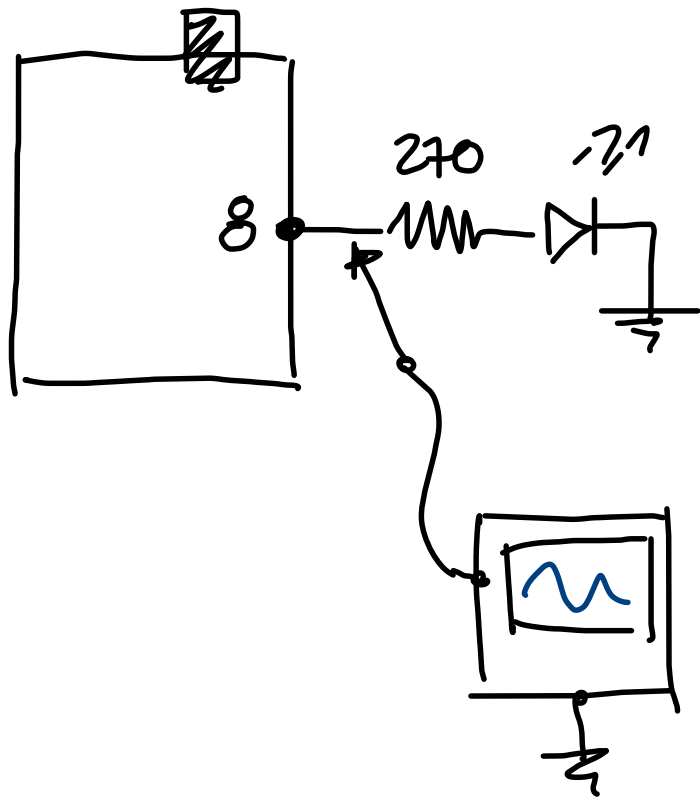
TCNT1

FFFF

$0 \rightarrow$ FFFF $=$ 15 KHz

$f = \dfrac{1}{T}$ $\qquad$ $T = \dfrac{1}{15\,\text{KHz}} = 66,6\,\mu s$

$65535 \times 66,6\,\mu s = 4,36\,s$

$2'000'000\,\mu s\,/\,66,6 = 30030\ \text{step}$
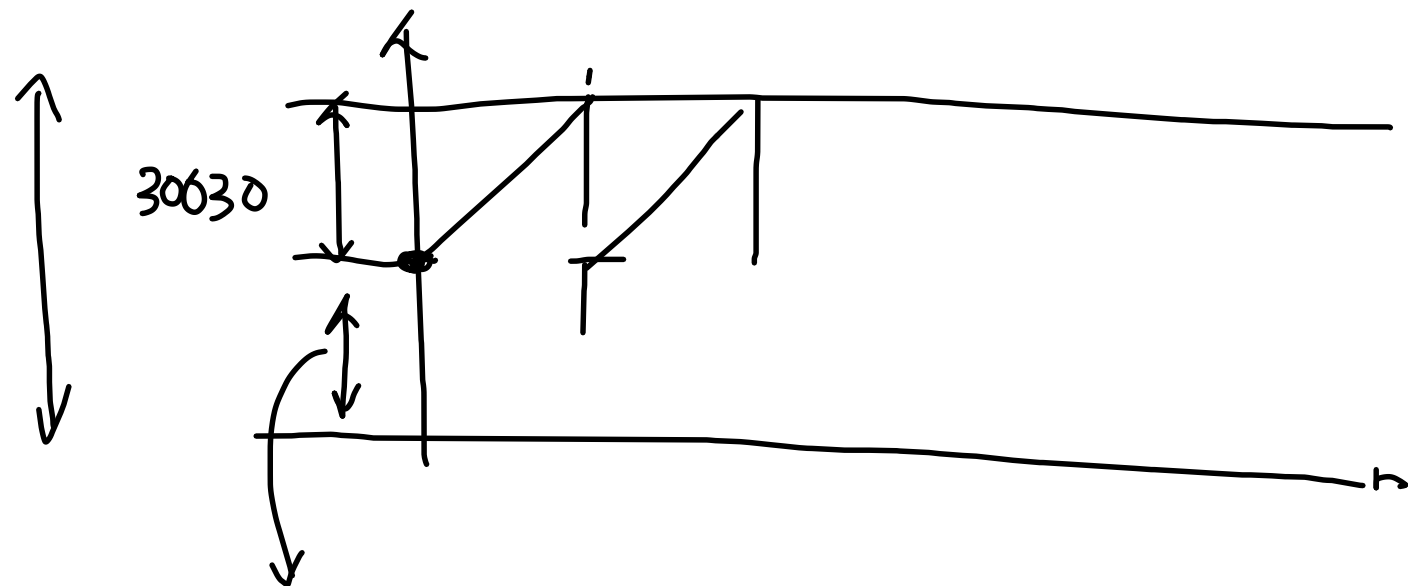
$$65535 - 30030 = 35504$$
$$\downarrow$$
$$8AB\emptyset$$

30030

102h $\rightarrow$ 15kHz T_1 16b

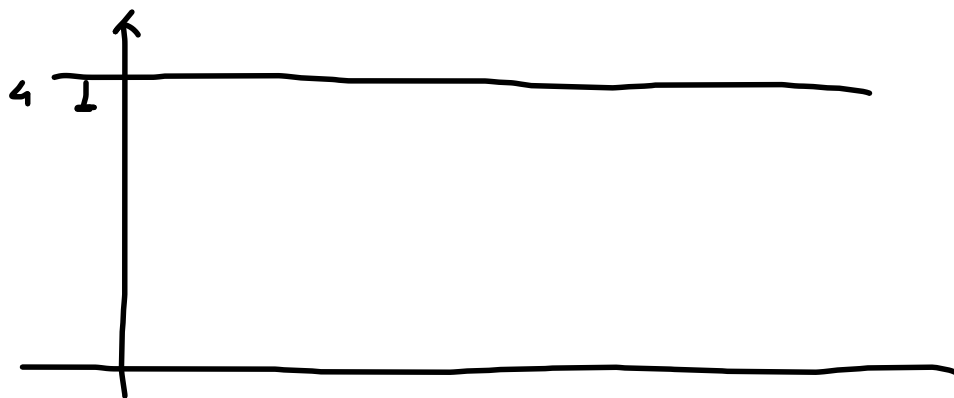0 $\rightarrow$ 65535

step $= \dfrac{1}{f} = 66,6 \,\mu s$

$T = 25 \, sauti$
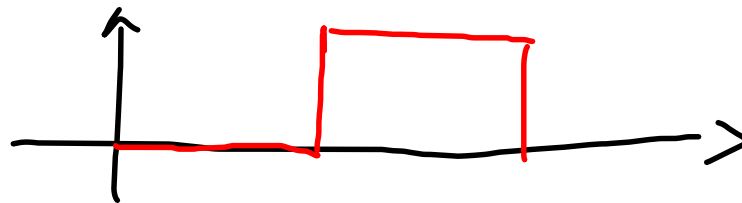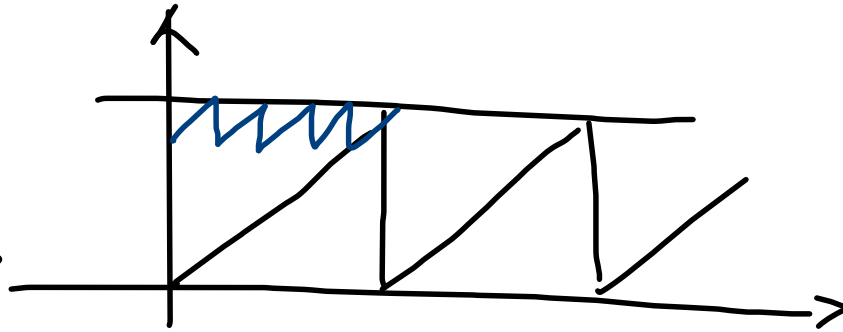
$$f = 2 kHz \ ?$$

$$f = \frac{1}{T} = \frac{1}{n \cdot 2 \cdot 66{,}6 \mu s}$$

$$2 \cdot 10^3 = \frac{1}{n \cdot 2 \cdot 66{,}6 \mu s} \qquad n = \frac{1}{2 \cdot 10^3 \cdot 2 \cdot 66{,}6 \mu s}$$

$$n = \frac{1}{10^3 \cdot 4 \cdot 66{,}6 \cdot 10^{-6}} = \frac{10^3}{4 \cdot 66{,}6} = 4$$

$$\underset{10^{-3}}{\underbrace{\phantom{10^{-6}}}}$$

FFFF — 4