

Timer

```
ldr R1,=GPIOC
```

schleife:

//UIF prüfen

```
ldr R2,[R3,SR]
```

```
tst R2,Bit0
```

```
beq schleife
```

//UIF zurücksetzen

```
mov R2,#0
```

```
str R2,[R3,SR]
```

//Aktionen bei UIF=1

```
ldrb R2,[R1,ODR]
```

```
eor R2,Bit1
```

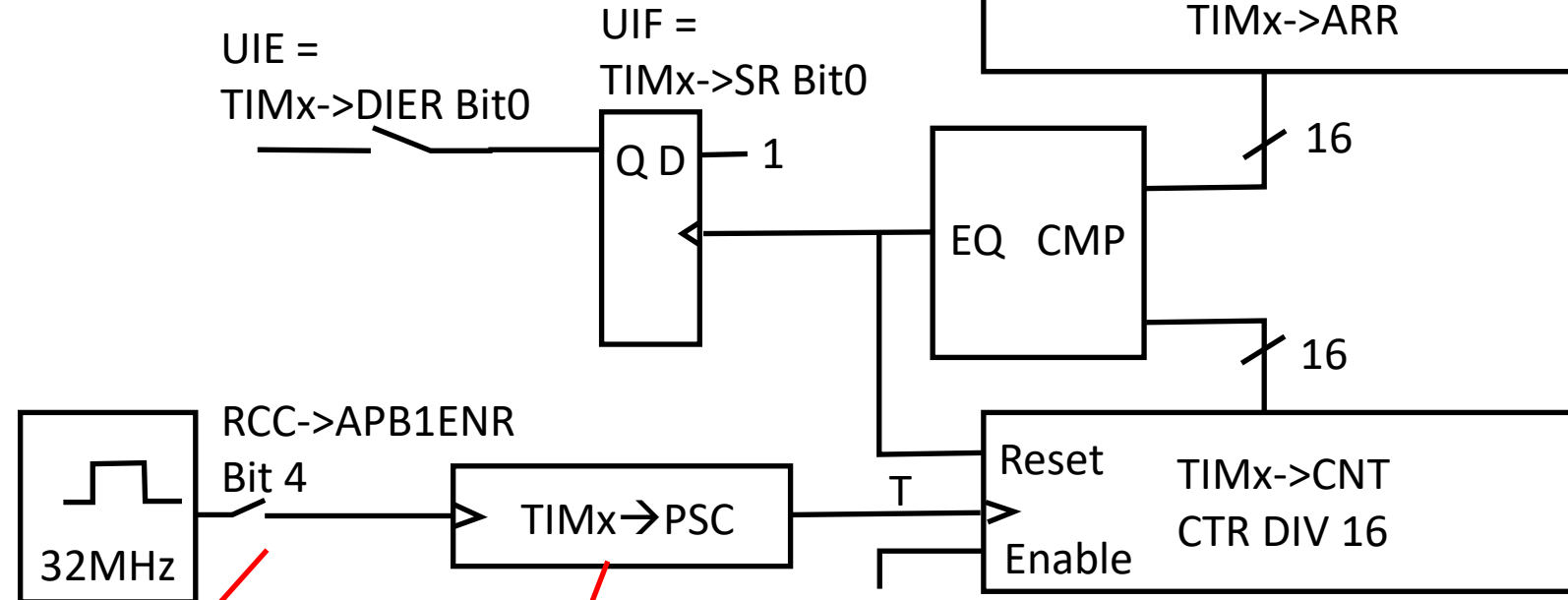
```
strb R2,[R1,ODR]
```

```
b schleife
```

```
ldr R3,=TIM2
mov R1,#0
str R1,[R3,SR]
```

```
ldr R3,=TIM2
mov R1,#y
str R1,[R3,ARR]
```

Periode=(y+1)*T



```
ldr R0,=rcc
ldr R1,[R0,RCC_APB1ENR]
orr R1,0b110001
str R1,[R0,RCC_APB1ENR]
```

0b110001 für TIM2, TIM6 und TIM7

```
ldr R3,=TIM2
mov R1,#x
str R1,[R3,PSC]
```

T=1μs: x=31
T=1ms: x=31999

CEN =
TIMx->CR1 Bit0

```
ldr R3,=TIM2
mov R1,#1
str R1,[R3,CR1]
```

Timer starten (CEN=1)

```
ldr R3,=TIM2
mov R1,#0
str R1,[R3,CNT]
```

Zähler bei 0 starten