

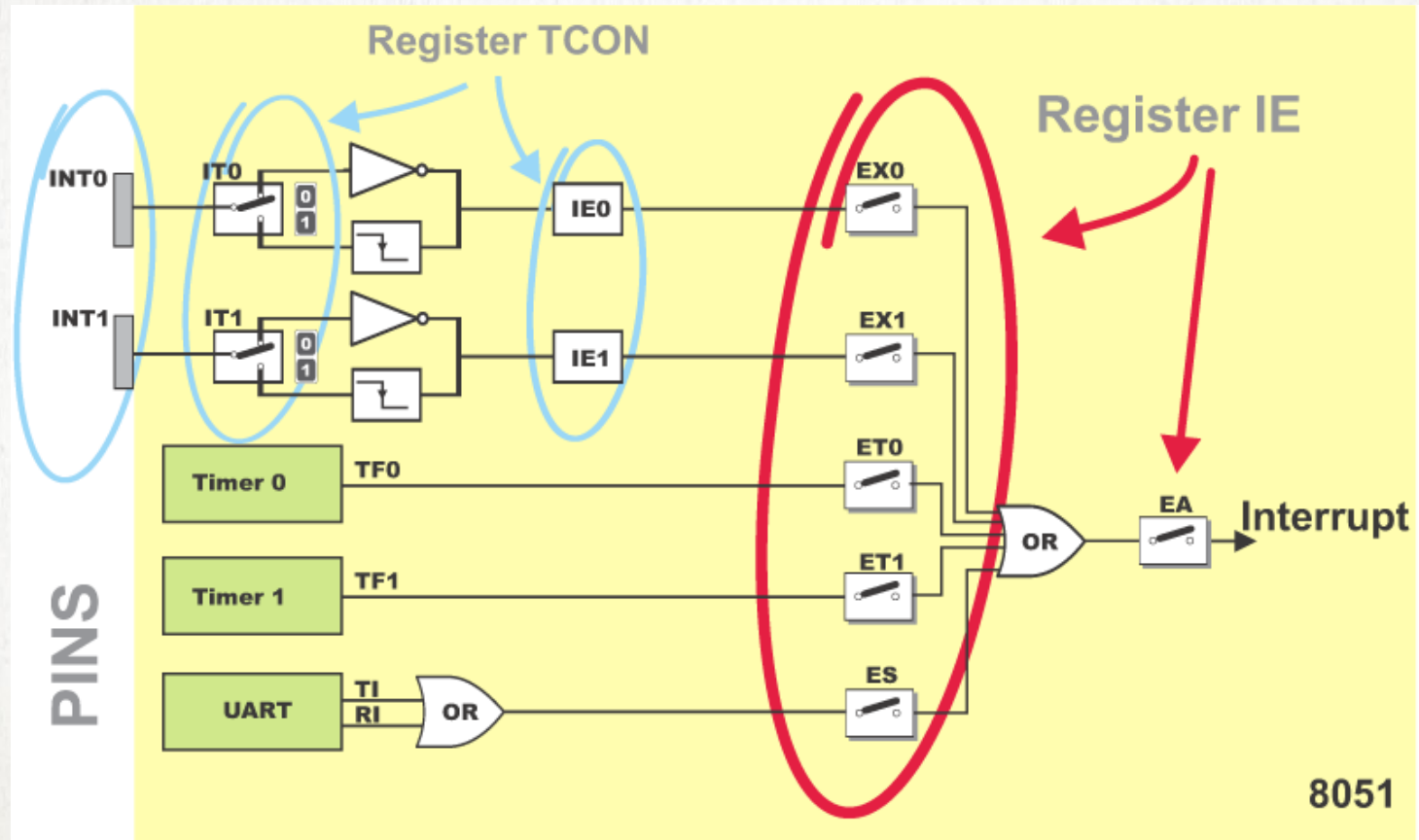
Laborator de Electronică Digitală (ED)

# SISTEMUL DE ÎNTRERUPERI

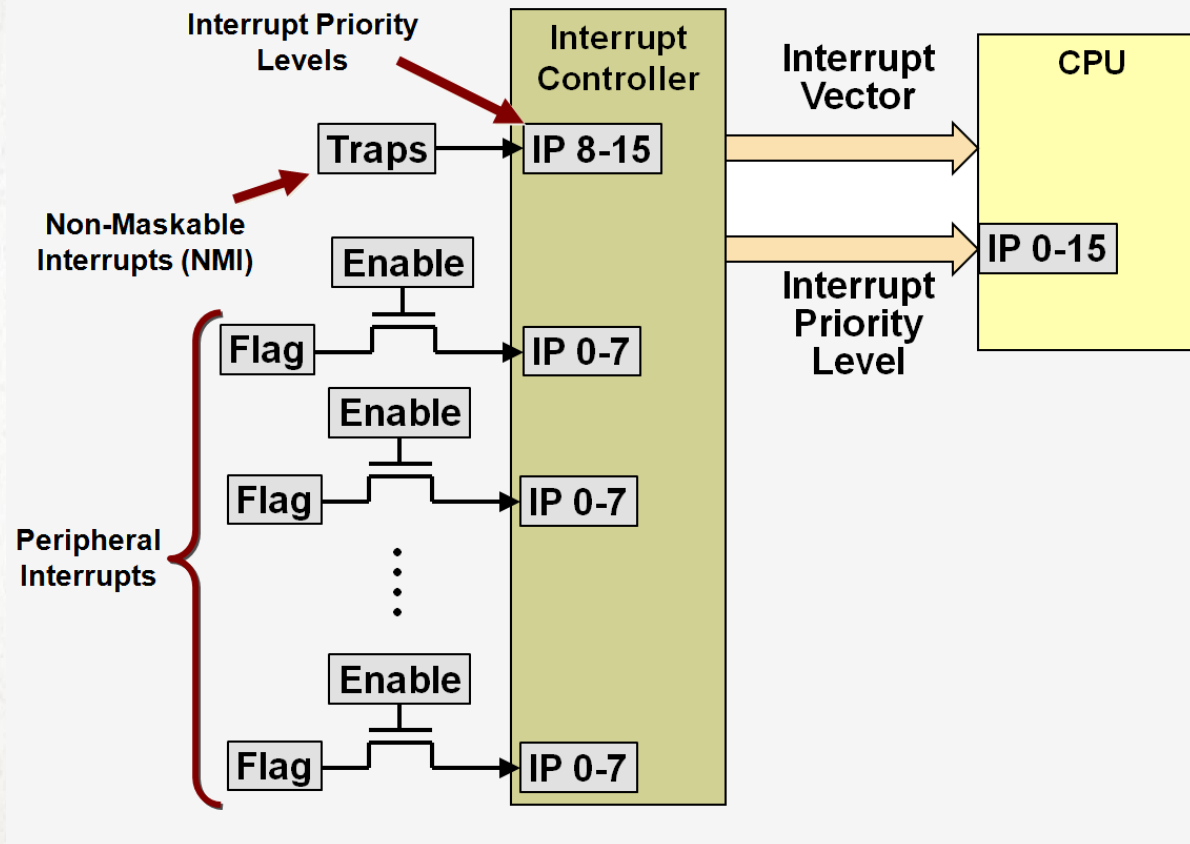
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# INTRERUPERI



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# INTRERUPERE A TIMERULUI

```
void init_timer()
{
    TCCR0= 0b00001011;
    TCNT0 = 0;
    OCR0= 124;
    TIMSK |= 0b00000010;
    SREG |=1<<7;
}
```

```
sei(); -> SREG |= 1<<7;
cli(); SREG &= ~(1<<7);
```

```
void ISR_TIM0() iv IVT_ADDR_TIMER0_COMP
{
    digit ++;
    switch(digit)
    {
        case 1: display(1, s%10);break;
        case 2: display(2, (s/10)%10);break;
        case 3: display(3, m%10);break;
        case 4: display(4, (m/10)%10);
        digit=0;break;
    }
    ms++;
    if (ms==999){
        s++;
        ms=0;
    }
}
```



# INTRERUPERE A TIMERULUI

1. Configurati intreruperea de Comparare la Iesire (Output Compare) A pentru Timerul 1. Intreruperea sa fie configurata pentru o perioada de 1 secunda.

```
void init_timer1()
{
    TCCR1A = ;
    TCCR1B = ;
    TCNT1H = ;
    TCNT1L = ;
    OCR1AH = ;
    OCR1AL = ;
    TIMSK |= 0b;
    SREG |= 1<<7;
}
```

## ACTIVARE INTRERUPERI

```
sei(); // SREG |= 1<<7;
cli(); // SREG &= ~(1<<7);
```

```
// ISR(TIMER0_COMP_vect)
void ISR_TIM1() iv IVT_ADDR_TIMER1_COMPA
{ }
```