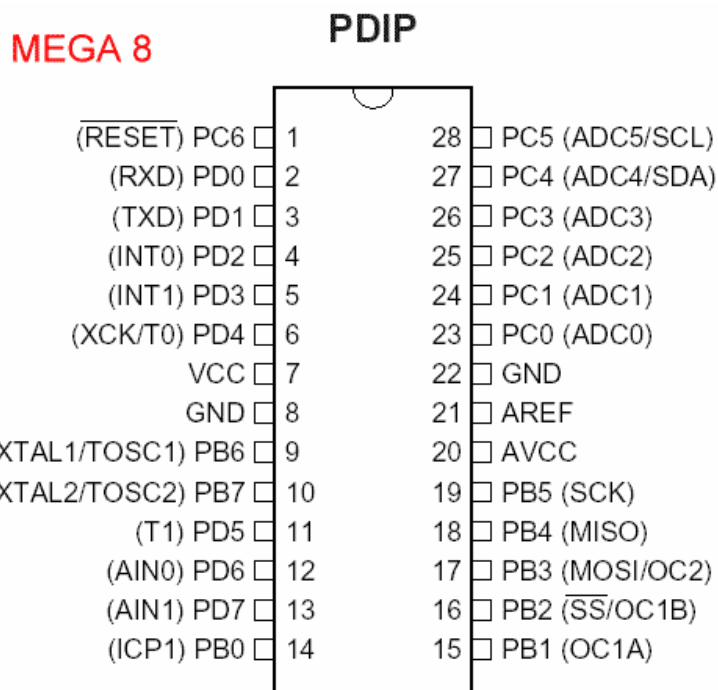


Atmega 16



Atmega 8

foto: roboternetz.de

Changes I made in „pins_atmega8.c“ in blue, original data in red


```
{ PD, 0 },
{ PD, 1 },
{ PD, 2 },
{ PD, 3 },
{ PD, 4 },
{ PD, 5 },
{ PD, 6 },
{ PD, 7 },
{ PC, 0 },
{ PC, 1 },
{ PC, 2 },
{ PC, 3 },
{ PC, 4 },
{ PC, 5 },
{ PC, 6 },
{ PC, 7 },
{ NOT_A_PIN, NOT_A_PIN },
{ NOT_A_PIN, NOT_A_PIN },
{ NOT_A_PIN, NOT_A_PIN },
{ PA, 0 },
{ PA, 1 },
{ PA, 2 },
{ PA, 3 },
{ PA, 4 },
{ PA, 5 },
{ PA, 6 },
{ PA, 7 },
```

```
{ PC, 6 },
{ PD, 0 },
{ PD, 1 },
{ PD, 2 },
{ PD, 3 },
{ PD, 4 },
{ NOT_A_PIN, NOT_A_PIN },
{ NOT_A_PIN, NOT_A_PIN },
{ PB, 6 },
{ PB, 7 },
{ PD, 5 },
{ PD, 6 },
{ PD, 7 },
{ PB, 0 },
```

```
{ PB, 1 },
{ PB, 2 },
{ PB, 3 },
{ PB, 4 },
{ PB, 5 },
{ NOT_A_PIN, NOT_A_PIN },
{ NOT_A_PIN, NOT_A_PIN },
{ NOT_A_PIN, NOT_A_PIN },
{ PC, 0 },
{ PC, 1 },
{ PC, 2 },
{ PC, 3 },
{ PC, 4 },
{ PC, 5 },
```

```
};
```

```
pin_t *digital_pin_to_port = digital_pin_to_port_array;
pin_t *analog_in_pin_to_port = digital_pin_to_port_array;
pin_t *analog_out_pin_to_port = digital_pin_to_port_array;
```

changes I did on pins_arduino.c in blue, comments in yellow

```
#include <avr/io.h>
#include "wiring_private.h"
#include "pins_arduino.h"

#define PA 1
#define PB 2
#define PC 3
#define PD 4

// these arrays map port names (e.g. port B) to the
// appropriate addresses for various functions (e.g. reading
// and writing)
const uint8_t PROGMEM port_to_mode_PGM[] = {
    NOT_A_PORT,
    #if defined(__AVR_ATmega16__)
        &DDRA,
    #else
    NOT_A_PORT,
    #endif
        &DDRB,
        &DDRC,
        &DDRD,
};

const uint8_t PROGMEM port_to_output_PGM[] = {

    NOT_A_PORT,
    #if defined(__AVR_ATmega16__)
        &PORTA,

    #else
    NOT_A_PORT,
    #endif
        &PORTB,
        &PORTC,
        &PORTD,
};

const uint8_t PROGMEM port_to_input_PGM[] = {

    NOT_A_PORT,
    #if defined(__AVR_ATmega16__)
        &PINA,

    #else
    NOT_A_PORT,
    #endif
        &PINB,
        &PINC,
        &PIND,
```



```

    _BV(5),
#if defined(__AVR_ATmega16__)
    _BV(6),
    _BV(7),
    _BV(0), /* 22, port A */
    _BV(1),
    _BV(2),
    _BV(3),
    _BV(4),
    _BV(5),
    _BV(6),
    _BV(7),
#endif

```

```
};
```

I took away all « if's » for atmega8 and 168, was too confusing and wrong

```

const uint8_t PROGMEM digital_pin_to_timer_PGM[] = {
    NOT_ON_TIMER, /* 0 - port D */
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    TIMER1B,
    TIMER1A,
    NOT_ON_TIMER,
    TIMER2,
    NOT_ON_TIMER, /* 8 - port B */
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER, /* 14 - port C */
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER, /*22 port A */
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,
    NOT_ON_TIMER,

```

```
};
```