

Reading/Writing to I/O ports

Pintos threads/io.h

```
static inline uint8_t inb (uint16_t port)
{
    uint8_t data;
    asm volatile ("inb %w1, %b0" : "=a" (data) : "Nd" (port));
    return data;
}

static inline void outb (uint16_t port, uint8_t data)
{
    asm volatile ("outb %b0, %w1" : : "a" (data), "Nd" (port));
}
```

Device driver

```
while (STATUS == BUSY)
    ; //wait until device is not busy
write data to data register
write command to command register
    Doing so starts the device and executes the command
while (STATUS == BUSY)
    ; //wait until device is done with your request
```