

Example : parallel port (LPT1)

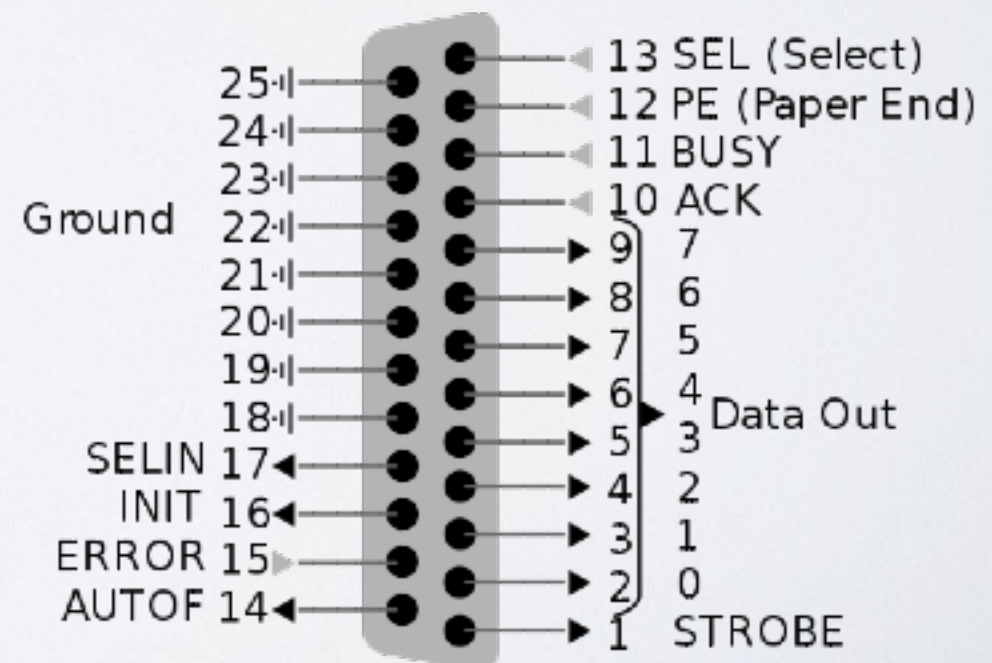
- Three registers

D_7	D_6	D_5	D_4	D_3	D_2	D_1	D_0
read/write data register (port 0x378)							

\overline{BSY}	\overline{ACK}	PAP	OFON	\overline{ERR}	-	-	-
read-only status register (port 0x379)							

-	-	-	IRQ	DSL	\overline{INI}	ALF	STR
read/write control register (port 0x37a)							

- Every bits (except IRQ) corresponds to a pin on 25-pin connector



Parallel Port Driver

D_7	D_6	D_5	D_4	D_3	D_2	D_1	D_0
read/write data register (port 0x378)							
\overline{BSY}	\overline{ACK}	PAP	OFON	\overline{ERR}	-	-	-
read-only status register (port 0x379)							
-	-	-	IRQ	DSL	\overline{INI}	ALF	STR
read/write control register (port 0x37a)							

```
void
sendbyte(uint8_t byte)
{
    /* Wait until  $\overline{BSY}$  bit is 1. */
    while ((inb (0x379) & 0x80) == 0)
        delay ();

    /* Put the byte we wish to send on pins D7-0. */
    outb (0x378, byte);

    /* Pulse STR (strobe) line to inform the printer
     * that a byte is available */
    uint8_t ctrlval = inb (0x37a);
    outb (0x37a, ctrlval | 0x01);
    delay ();
    outb (0x37a, ctrlval);
}
```