

Re: LPT square wave

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- *From:* "Leon" <leon.heller@xxxxxxxxxxxxxxxx>
 - *Date:* 3 Oct 2006 12:34:52 -0700
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rpodraza@xxxxxxxx wrote:

Hi,

I'm trying to write a program in C++ to communicate with an AVR microcontroller's SPI via the LPT port.

I have to generate a clock (SCK) signal on one of the pins of the LPT. I am using the WinIO library. I'd like to have way to create a square wave of a given frequency (within some limit of course).

My question is: what is the best way to generate such signal and what is the maximum frequency one can obtain? Excluding of course such code:
Code:

```
for (;;) {  
  pin = 0; pin = 1;  
}
```

Generating SPI with software using the PC printer port is quite easy, just follow the timing diagram. The clock doesn't have to be a conventional square wave, just drive it high and low at the correct time with the data line held high or low. Connecting a 74HC595 with LEDs on the outputs to the printer port can be useful when debugging the software, the 74HC595 is SPI-compatible and makes it easy to see when you have got it right. I have one mounted on a small PCB with the LEDs.

Leon

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