

Re: Confused about synchronous communications

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- *From:* Tom2000 <abuse@xxxxxxxxxxxxxx>
 - *Date:* Thu, 20 Sep 2007 15:45:20 -0700
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On Thu, 20 Sep 2007 22:28:37 GMT, "Jon Slaughter" <Jon_Slaughter@xxxxxxxxxxxxxx> wrote:

I'm trying to implement a general parallel port communications program but I'm a little confused about the timing issues involved.

Jon,

I'm not sure it's safe to generalize. My advice is to refer to the data sheet for your device of interest and see what the manufacturer wants and expects.

In general, though, it looks like you have the general principle down pat.

When I'm bitbanging, I don't try to center the clock, as a rule. I put my data up, then immediately toggle a clock pulse. Next data bit, toggle again. Repeat as necessary, as long as that's within the manufacturer's timing specs.

When I'm reading, I read the data as soon as I detect the appropriate clock transition.

So far, it's worked.

BTW – when reading, make sure you understand the data sheet. You'll find yourself seeing the first data bit present before the first clock pulse. If you don't prepare yourself for that condition, you'll be chasing your tail.

The data sheet is your friend!

Good luck,

Tom

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