
Subject: Re: Question ISA BUS clock

Posted by [Sergey](#) on Tue, 02 Apr 2019 08:31:57 GMT

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Well, to make an RTC work in DOS you don't really need a BIOS extension. You'll need a clock device driver. It must be an example of that somewhere in the Interwebs.

Regarding microcontroller to PC interfacing, there are a few options:

1. Add a wait logic that would insert enough wait states for the microcontroller to input or output the data
 2. Use some kind of FIFO, e.g. CY7C421, a bit of an overkill probably.
 3. Add input/output flip-flops and buffers. E.g. use a 74*273 for storing the ND address or command/data that is written to the microcontroller. Use 74*244 for reading the data. 74*273 and 74*244 would be enabled by /CS AND /IORD, and /CS AND /IOWR respectively. If needed, the delays can be implemented in the software/driver.
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