

Re: bit banged Basic52 code for 4-wire serial interface

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2007-12/msg04257.html>

- *From:* "Largo" <clementine9NA@xxxxxxx>
 - *Date:* Mon, 31 Dec 2007 10:13:37 -0800
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"donald" <Donald@xxxxxxxxxxxxxxxx> wrote in message
news:ur2dnXW5u9Bmu-TanZ2dnUVZ_uSgnZ2d@xxxxxxxxxxxxxxxx

Largo wrote:

"donald" <Donald@xxxxxxxxxxxxxxxx> wrote in message
news:p5Odnf4I5K9gyeXanZ2dnUVZ_sKqnZ2d@xxxxxxxxxxxxxxxx

Largo wrote:

Hi,
Can someone site location or post example code for a MAX6969 LED driver for 8052 project? I have the Max chip for driving LED's prototyping on a 8052 development board. It uses "industry standard" 4-wire serial interface (SPI?). I have BASIC code for a I2C interface.

Largo

Please clarify what you are asking for !

C-code, assembly code, basic code for which basic compiler.

<http://www.google.com/search?hl=en&q=8051+i2c>

This gives you 152,000 hits, there has to be something in there for you.

Once you know what you want/need.

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good luck

donald

Donald'

I have a 8052 development board. So I can use basic52 code for prototyping the MAX6969 circuitry first. Once this is perfected, the prototype will go over to a PIC micro add on/modification. The PIC code is in assembler. Otherwise, if I use assembly language for the 8051, how different is this from the PIC 16F873 op code?

If I said to you, can I run PC software on a MAC, what would you say ??

(have you looked at the data sheets for these chips)

Donald,

I meant conceptually as in flow chart.

Do you have a PIC board available ??

I built a PIC ZIF programmer using MPLAB compatible ICD. The one from Olimex.

Why are you trying to develop on basic52, then try to run on a PIC ???

Maybe better to use the PIC programmer then 8051 board.

What development tools for the PIC do you have available ??

A proof of concept is one thing, writing code for two such different processors is just nuts.

Oh, I2C and SPI are also two different animals.

There is tons of examples of software SPI code for PICs all over the net.

There is a hardware SPI port in the 16F873, are you not going to use that?

There is? Okay, 16F873 datasheet says Pin 15 is SPI port. And it's already used in this existing circuit.

Again, Google is your friend.

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<http://www.google.com/search?q=SPI+PIC+code>

Is this your first PIC project ??

I did the PIC project from existing assembler code and used the ICD to program. Works okay. Although I wish I could use the existing PIC's SPI port to add the MAX chip added functionality. As noted above, that pins already in use. What do I do now?

Thanks for insight on this. Any more suggestions?

Largo

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