

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

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2007-12/msg04278.html>

- *From:* "Largo" <clementine9NA@xxxxxxx>
 - *Date:* Mon, 31 Dec 2007 11:50:09 -0800
-

"donald" <Donald@xxxxxxxxxxxxxxxx> wrote in message
news:PYGdncyMN7NTq-TanZ2dnUVZ_oCvnZ2d@xxxxxxxxxxxxxxxx

Largo wrote:

"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

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

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.

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

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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.

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Now you say so. :-)

The type of questions you were asking and the BASIC52 part made it look like you were a noob.

Again, Google is your friend.

<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

Ok, using a soft SPI port is a good idea.

Check out the goolge links, I think you will find what your looking for.

Microchip has some app notes about soft SPI as well.
Working assemble code too.

good luck.

donald

Thank you. This got me thinking. One more question.

My PIC16F873 circuit has unused pins 5, 6, 7, 18, 23 and 24 which, according to data sheet 18, 23 and 24 used for SPI. Looks like pin 18 for CLK, pin 23 for data in and pin 24 data out to the MAX6969. Forget the 8051 board. If I prototype using my PIC ICD to these pins and sample .asm code from Microchip—if it works, could I just add this new code/module to existing PIC project (code)?

I think I need a new thread...

Largo

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