

# I2C Start condition generated - then...

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dparisi 5 posts since

Apr 27, 2009

Hi there,

I have a problem with a m32c micro ... Im implementing an i2c master,

and when I generate the start condition, as soon as I write stpsel back to 0 (otherwise, I cannot write to the bus)

the lines SDA and SCL are pulled up for a while until I write to the u2tbl register ... this causes my part to think

that a clock/data was coming, which is wrong ...

Here is the code. Any help? What am I doing wrong? Thanks.

```
void i2c_start(void)
{
    unsigned int dly_tmr;
    dly_tmr = ta2;
    stpsel_u2smr4 = 0;
    while((dly_tmr - ta2) < _1ms ); // delay
    stareq_u2smr4 = 1;          // Start condition generate bit
    dly_tmr = ta2; while((dly_tmr - ta2) < _1ms ); // delay
    stpsel_u2smr4 = 1;        // SCL, SDA output select bit - set
    dly_tmr = ta2; while((dly_tmr - ta2) < _1ms ); // delay
    stpsel_u2smr4 = 0;        // SCL, SDA output select bit - reset
}
```

```
main{
```

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...

```
te_u2c1 = 1;           // transmit data (enable bit)
while(!ti_u2c1);      // wait for tx buffer to be empty
ir_s2ric = 0;         // reset reception interrupt bit
ir_s2tic = 0;         // reset transmission interrupt bit
```

```
i2c_start();
u2tbl = Dev;          // transmit data
```

...

```
}
```

Tags: i2c, start, condition



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Mar 16, 2009 1. **Re: I2C Start condition generated - then lines are pulled up !** Apr 28, 2009 4:37 AM

Did you check the I2C sample code from the Renesas homepage?

[http://documentation.renesas.com/eng/products/mpumcu/apn/rej05b0145\\_m16cap.pdf](http://documentation.renesas.com/eng/products/mpumcu/apn/rej05b0145_m16cap.pdf)



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Apr 27, 2009 2. **Re: I2C Start condition generated - then lines are pulled up !** Apr 28, 2009 10:31 AM

Yes I did that ...

I think the documentation is a bit messy, regards how to use/configure the i2c master mode!

Any sample of reliable code???

Thanks very much,

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David.



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Mar 16, 2009 3. **Re: I2C Start condition generated - then lines are pulled up !** Jun 16, 2009 10:53 AM

The source code for a working project is also on the website:

<http://www.renesas.com/sensitivity.do?downloadId=D1014009>