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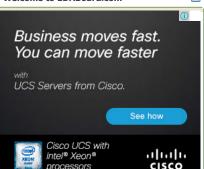
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FvM (35129), alexan_e (11851), keith1200rs (10878), bigdogguru (9730), BradtheRad (9189)

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Shifted Resonant Frequency between HFSS simulation and PCB antenna (59)

What would be the easiest way to get the rpms of a bicycle tire? (9)

Inductor & capacitor design for automatic voltage regulator (0)

Frequency Response using LTSPICE (0) TDA2030 active cross over circuit; Transistor getting heated up (2)

Unbuffered OPAMP and OTA (0)

Problem with LCD(JHD162A) interfacing with PIC18f25K22 microcontroller (3)

[moved] subtracting vecotr form each row a

of a matrix in each clock cycle in Verilog (2) What's the name of this capacitor? (10)

Error in Cadence Virtuoso DRC (1)

Power factor measurement using

PIC18f4520 (260)

13.56MHz 10watt Power Amplifier (7)

DIY high frequency Vpp meter (3)

Do you use the UVM? then how to make your testbench? (1)

How oscillations start in the oscillator? (12) CD4007 experiment to build a push pull (12) Clicking sound in CRT TV, any speculations of what's the problem? (2)

source for transformers like in 1\$ fake

iPhone Chargers (1)

Need a design of an GHZ oscillator (5)

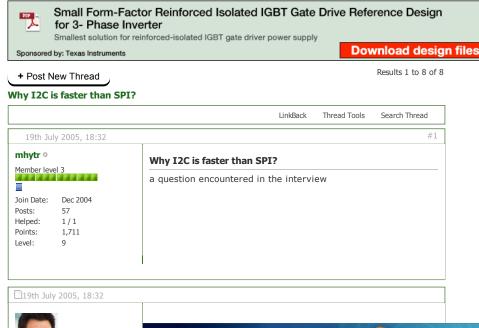
dual circuit series parallel RLC (4)

Li-ion charging / balancing (1) VHDL - (real Data type : error 10414) (10)

Vital glitches, many input changes (2)

spread of clock pulse in vhdl (2) how to insert alph stable (impulsive) noise

into a random data? (0)



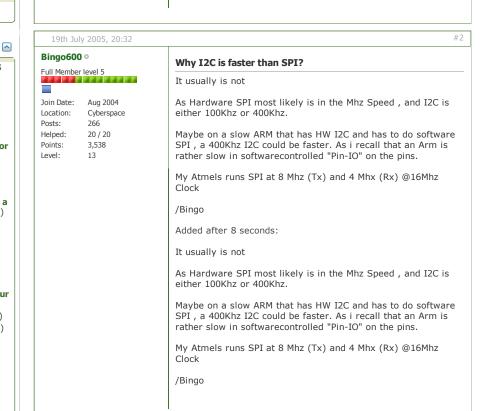
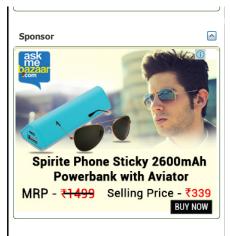


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for your FPGA or ASIC design

#3 19th July 2005, 20:52 Mr_Programmer o Re: Why I2C is faster than SPI?



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FvM (207264), IanP (160151), bigdogguru (67607), betwixt (54256), tsb_nph (53644)

Full Member level 3

Join Date: Feb 2002 Posts: 153 9/9 Helped: 3,130 Points: Level: 13

Hi mhytr.

I2C isn't faster then SPI. As far as I know the I2C Fast-Mode specification says 400kHz, if we ignore start and stop conditions we will have 400000 bits each second.

With the SPI interface you can transmit date with several MHz clock and in some applications also in full duplex mode. You see SPI is faster...

Regards...

19th July 2005, 20:52



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Business moves fast. You can move faster

with UCS Servers from Cisco.

#4

#5

#6

22nd July 2005, 02:09

nemolee o

Full Member level 3

Join Date: Dec 2004 Posts: 152 Helped: 2/2 Points: 2,958 Level: 12

Re: Why I2C is faster than SPI?

I don't know the max. speed of SPI. But the I2C max. speed is 3.4MHz, not 400KHz. (Please reference I2C spec. V2.1)

30th July 2005, 14:41

bpu o

Junior Member level 3

altalta

CISCO

loin Date: Jul 2005 Posts: 31 Helped: 7/7

Points: 1,673 Level: 9

Why I2C is faster than SPI?

[nemolee]

many of the I2C devices can work only with 400kHz or low SCL signal.

for example, in my design i use the 256K flash AT24C256. this flash are 1 MHz (5V), 400 kHz (2.7V) and 100 kHz (1.8V) compatibility.

my digital design use 3.3V and low voltages ->i can read this flash only with 400kHz or low SCL signal

30th July 2005, 18:15

Gorilla o

Member level 5





Join Date: Jan 2003 Posts: 89 9/9 Helped: Points: 3,715 Level: 14

Re: Why I2C is faster than SPI?

The fastest serial memory devices are SPI. ST for example has 50 MHz SPI interfaces on their serial flash memory.

See http://www.st.com/stonline/books/ascii/docs/10027.htm.

1st August 2005, 12:27

dBUGGER o



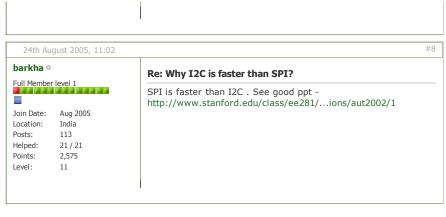
Join Date: Apr 2005 Location: Milky Way Posts: 108 13 / 13 Helped: Points: 2,220 Level: 10

Re: Why I2C is faster than SPI?

SPI is faster and simpler than I2C. Just check out this link. Very clearly explained......

http://embedded.com/showArticle.jhtml?articleID=9900483

Best Regards,



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