TIVA LIBRARY-I2C

C:\ti\TivaWare\_C\_Series-2.2.0.295\examples\peripherals\i2c

master\_slave\_loopback

 // Indicate the direction of the data.

 //

 UARTprintf("Tranferring from: Master -> Slave\n");

 //

 // Send 3 peices of I2C data from the master to the slave.

 //

 for(ui32Index = 0; ui32Index < NUM\_I2C\_DATA; ui32Index++)

 {

 //

 // Display the data that the I2C0 master is transferring.

 //

 UARTprintf(" Sending: '%c' . . . ", pui32DataTx[ui32Index]);

 //

 // Place the data to be sent in the data register

 //

 I2CMasterDataPut(I2C0\_BASE, pui32DataTx[ui32Index]);

 //

 // Initiate send of data from the master. Since the loopback

 // mode is enabled, the master and slave units are connected

 // allowing us to receive the same data that we sent out.

 //

 I2CMasterControl(I2C0\_BASE, I2C\_MASTER\_CMD\_SINGLE\_SEND);

 //

 // Wait until the slave has received and acknowledged the data.

 //

 while(!(I2CSlaveStatus(I2C0\_BASE) & I2C\_SLAVE\_ACT\_RREQ))

 {

 }

 //CODE STUCK ABOVE

 // Read the data from the slave.

 //

 pui32DataRx[ui32Index] = I2CSlaveDataGet(I2C0\_BASE);

 //

 // Wait until master module is done transferring.

 //

 while(I2CMasterBusy(I2C0\_BASE))

 {

 }

 //

 // Display the data that the slave has received.

 //

 UARTprintf("Received: '%c'\n", pui32DataRx[ui32Index]);

 }

 I2C INTERRUPT MASK REGISTERS NOT CHANGING



