

# Laboratory Worksheet #7

## Crossbar Configuration

This worksheet will help you configure the crossbar for lab 3, part 1. Refer to the notes for information about the crossbar. Use the inside backcover of the manual to determine which port pins are reserved by the crossbar setting. Also refer to the Priority Crossbar Decode Table in the handout.

For Lab 3, you must enable the UART0, I2C (SMBus0), and at least two capture/compare modules (CCMs) associated with the PCA. You may be asked to enable additional items.

As an example of setting the crossbar and CCMs, configure the system enable UART0, SMBus, and UART1 and all five CCMs.

1) Based on the above, what is the initialization of XBR0?

XBR0 = \_\_\_\_\_

2) Which port pins will be assigned to the various peripherals mentioned?

TX0 = \_\_\_\_\_

RX0 = \_\_\_\_\_

SDA = \_\_\_\_\_

SCL = \_\_\_\_\_

CEX0 = \_\_\_\_\_

CEX1 = \_\_\_\_\_

CEX2 = \_\_\_\_\_

CEX3 = \_\_\_\_\_

CEX2 = \_\_\_\_\_

Fill this section in when the information is presented.

CAR

BLIMP

Used for: \_\_\_\_\_

Used for: \_\_\_\_\_

Used for: \_\_\_\_\_

Used for: \_\_\_\_\_

Used for: \_\_\_\_\_

When complete, insert Worksheet 4 in your laboratory notebook. Worksheets are required when the notebooks are graded. Perform any necessary calculations on the left page of the notebook where the worksheet is placed. Keep individual copies of the worksheet for your own records.