MC48 Homework 5

Max Hailperin

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1. Do exercise 6.1 from page 445. However, use figure 6.19 on page 386 instead of figure 6.3 on page 370. You can also ignore the "as explained on page 402" and just use a descriptive label for the values.

2. Do exercise 6.2 from page 445.

3. Do exercise 6.3 from pages 445–446. You may want to ignore the book's hint. Also, when a control line has a multi-bit horizontal label on it, such as the 10 on the top line coming out of the control oval, the way to interpret it is that the leftmost bit will become the top bit once it is rotated to the vertical position. For example, that 10 will become a 1 on top and a 0 on bottom when it reaches the MEM/WB register, so the 1 goes to RegWrite and the 0 to MemtoReg. Finally, you may assume that the designer of the control circuit chose to use 0 for any X (don't care) control outputs.