Module 1   Due the day after module 1 is completed in class.

1.   **Functional Units**
      a.   How many functional units can perform an ADD? Name them.

      b.   Which functional units support memory loads and stores?

2.   **Conditional Code**
      a.   Which registers can be used as conditional registers?

      b.   Which instructions can be conditional?

3.   **Performance**
      a.   What is the 'C6201 instruction cycle time?

      b.   How can the 'C6201 execute 1600 MIPS?

      c.   How many MIPS can the 'C6202 execute?

4.   **Coding Problems, write the code to perform the following:**
      a.   Move contents of A0 to A1.

      b.   Clear register A5.

      c. $A2 = A0^2 + A1$.

      d.   If $(B1 \neq 0)$ then B2 = B5 * B6

      e.   Load an *unsigned* 16-bit constant, 9ABCh into register A6.

      f.   Load A7 with the contents of mem1 and post increment the selected pointer.