Rose-Hulman Institute of Technology
Computer Science and Software Engineering
Prof. Archana Chidanandan

Team _____1-6_____ Maximum Points : __9.5__/ 10

Grading criteria for Pre-Milestone 1

1. Completeness of assembly language instructions (7 points)
    a. Instructions to access memory (1 point)
        - Effective address (register indirect/direct/base-displacement)

        Ld and store.

    b. Instructions to do basic arithmetic (add, sub, logical) (1 point)
        - Number of operands
        - immediates
            - size of immediate field
        - memory operands (address calculation)

        addition and sub, but no shift.

    c. Instructions to conditionally branch (2 points)
        - MIPS-like "condition-code less"
        - Use of condition-codes
        - Effective address (register indirect/direct/base-displacement)
            - If register indirect/base-displacement, is there any way to load an entire address into the register
        - Size of address

        Bgt and beq.

    d. Instructions to un-conditionally branch (1 point)
        - Effective address (register indirect/direct/base-displacement)
            - If register indirect/base-displacement, is there any way to load an entire address into the register
        - Size of address

        Jp exists.

e. Instructions to handle procedures (1 point)
   - instruction to transfer control
   - instruction to return to calling procedure

   no jr. -1/2.

f. Other data movement instructions (1 point)
   - between registers
   - immediate value to register (size of immediate value)

   move, no ori or lui. Lui can be made from adc and move.

2. Program for Relatively prime value (3 points)
   a. Uses instructions from above-said list, not MIPS. (-3 if MIPS, don't continue.)
   b. Tests approximately ___100___ % of the above-listed instructions.
   c. Input values read from memory and output written to memory. (1 pt)

      Yep.

   d. Procedure used to determine the gcd using Euclid's algorithm as specified in the high-level language. (1 pt)

      Yeah, it looks like it.

   e. Use of conditional instructions in main/procedure. (1 pt)

      Yeah.

   f. Any conventions followed regarding parameter passing and returning values,
   g. Approximate number of registers the program uses.