mrProb1

MizzouRisc exercises Problem set 1

1. For the following write the assemble instruction that performs the function requested

Write the instruction such that r1 contains the following hex numbers

F400,

10000,

FACE,

AFACE.

2 Form the instruction that produces

r3 = r1 –r2,

ra = r1 and r4,

rb =rc or rd,

a branch on a zero result to loop

Assemble the following instructions

load l#1000, r1

load (r1), r2

sto r2, (8#r3)

end : branch(alw), end

load l#00CC, r3

Register R1 contains the value 10000, R2 contains 3ECE(H). Place the value 3ECE(H) in memory location 1000C. I did this in one instruction.

Write the instructions that sums C012 and 12AB. I did this in 3 instructions.

Write the instructions that store the value FACE into location 3000.

What is the result of the following MizzouRisc program fragment?

LOAD l # ABAB, R1

LOAD l # 1111, R2

LOAD h # 0001, R3

AND R1, R2, R4

STORE R4, (R3)