**COMPUTER SYSTEMS ARCHITECTURE**

**CENG356**

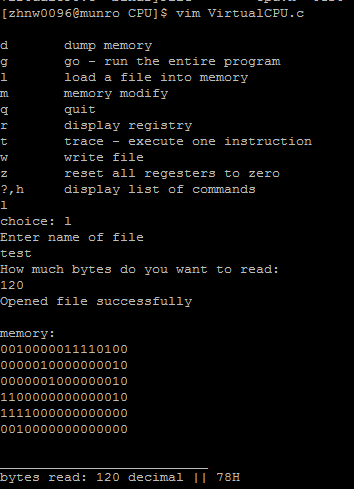
**Lab9**

Name: Wenzhong Zheng

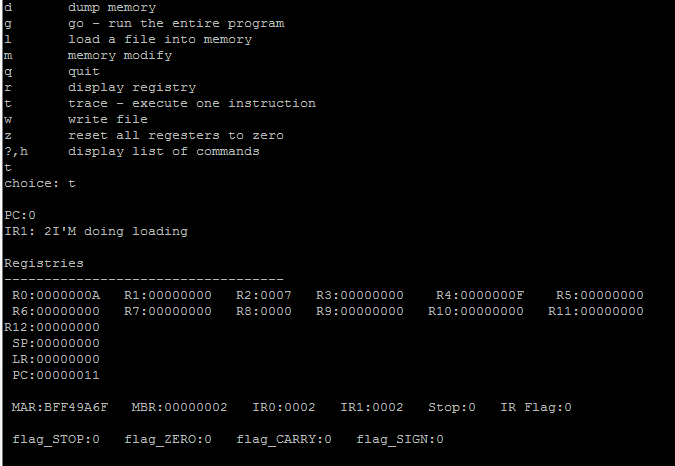
SID: 823-405-386

Instructor: Maryam Davoudpour

Load/Store instruction.

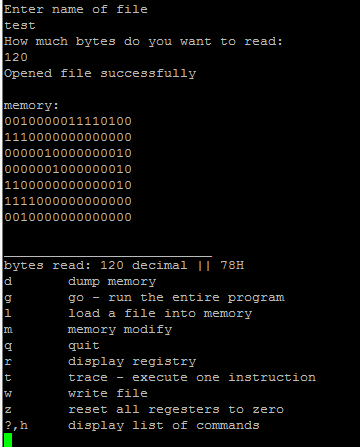


First load a binary file with a series of instructions, the first one says load F to R4

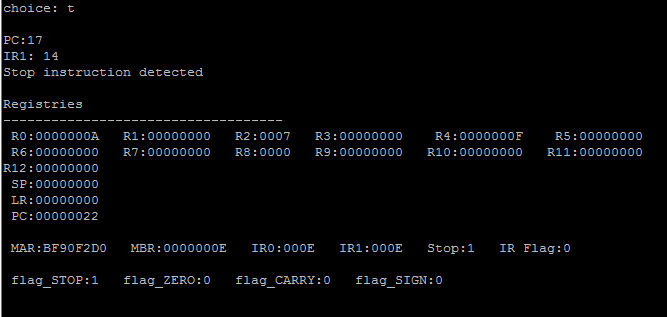


After I issue trace function, it execute the first instruction, which store the value F to R4

Stop instruction:



Load another file, with stop instruction on the second line.



It detects the stop instruction, and set stop flag to 1

Code fragment:

//IR1=2 is Load/Store

if(IR1==2){

printf("I'M doing loading");

int code=fourBits(p,PC+4);

int \*Rd= regNum(fourBits(p,PC+12));

int A=\*Rd;

int B = fourBits(p,PC+8);

\*Rd=B;

}

//IR1>=14 is stop instruction

if(IR1>=14){

printf("\nStop instruction detected");

flag\_STOP=1;

}

//Carry flag setting

int isCarry(int x)

{

return x>MAX?1:0;

}