Phase 3: Updates

Updates

11/18/2014
1. Please download the SPIM from https://github.com/ostrichjockey/spim-keepstats.

Instructions on installation:
1) clone the code base using the following command:
    git clone https://github.com/ostrichjockey/spim-keepstats
2) change to SPIM directory:
    cd spim-keepstats/spim
3) build and install spim using the following command:
    make
    sudo make install
4) test your installation:
    spim -keepstats -f ../helloworld.s
   [sample output]
   Hello WorldStats -- #instructions : 13
     #reads : 2 #writes 0 #branches 2 #other 9

Note: With -keepstats flag, you are able to get information on the total number of instructions (#instructions), the number of load instructions (#reads), the number of store instructions (#writes), the number of jump instructions (#branches), and the number of the other instructions (#other).
Please report those statistics in your final report.

2. We will be implementing **fixedpt** base type as **float** type supported in SPIM.
Note: no checking for overflow or underflow is to be implemented. In other words, **fixedpt** type is exactly equal to **float** type.

3. Syntax and usage of system calls:
```
Print_int(k); /* prints integer k to the output */
m = Read_int(); /* returns input in register $v0 which should then be assigned to m */
Print_float(k); /* prints float k to the output */
n = Read_float(); /* returns input in register $f0 which should then be assigned to n */
```
Please refer to the following links for mapping between system calls and corresponding MIPS instructions.
http://oucsace.cs.ohiou.edu/~avinashk/classes/ee461a/SPIM_instr.pdf
http://www.cs.uic.edu/~troy/spring04/cs366/float.html