## $\begin{array}{c} \text{CPSC 313} \\ 06\text{W Term 2} \\ \text{Problem Set } \#6 \text{ - Solution} \end{array}$

## 1. iaddl:

Stage	iaddl V, rB
Fetch	$icode:ifun \leftarrow M_1[PC]$
	$rA:rB \leftarrow M_1[PC + 1]$
	$valC \leftarrow M_4[PC + 2]$
	$valP \leftarrow PC + 6$
Decode	$valB \leftarrow R[rB]$
Execute	$valE \leftarrow valB + valC$
	setCC
Memory	
Write back	$R[rB] \leftarrow valE$
PC update	$PC \leftarrow valP$

## 2. leave:

Stage	leave
Fetch	$icode:ifun \leftarrow M_1[PC]$
	$valP \leftarrow PC + 1$
Decode	$valA \leftarrow R[ebp]$
	$valB \leftarrow R[ebp]$
Execute	$valE \leftarrow valB + 4$
Memory	$valM \leftarrow M_4[valA]$
Write back	$R[esp] \leftarrow valE$
	$R[ebp] \leftarrow valM$
PC update	$PC \leftarrow valP$

- 3. The solution to the copy\_block problem will not be provided.
- 4. The solution to the sequential simulator problem will not be provided.