

AND $DR \leftarrow \text{AND}(SR1, SR2)$
BR $PC \leftarrow PC + \text{SEXT}([IR8:0])$
JMP $PC \leftarrow (\text{BaseReg})$
JSR $R7 \leftarrow PC$
 $PC \leftarrow PC + \text{SEXT}(IR[10:0])$
JSRR $R7 \leftarrow PC$
 $PC \leftarrow (\text{BaseReg})$
LD $DR \leftarrow \text{Mem}[PC + \text{SEXT}(IR[8:0])]$
LDI $DR \leftarrow \text{Mem}[\text{Mem}[PC + \text{SEXT}(IR[8:0])]]$
LDR $DR \leftarrow \text{Mem}[\text{BaseReg} + \text{SEXT}(IR[5:0])]$
LEA $DR \leftarrow PC + \text{SEXT}(IR[8:0])$
NOT $DR \leftarrow \text{NOT}(SR)$
RET $PC \leftarrow R7$
ST $\text{Mem}[(PC) + \text{SEXT}(IR[8:0])] \leftarrow SR$
STI $\text{Mem}[\text{Mem}[PC + \text{SEXT}(IR[8:0])]] \leftarrow SR$
STR $\text{Mem}[(\text{BaseReg}) + \text{SEXT}(IR[5:0])] \leftarrow SR$
TRAP $R7 \leftarrow PC$
 $PC \leftarrow \text{Mem}[\text{ZEXT}(IR[7:0])]$