

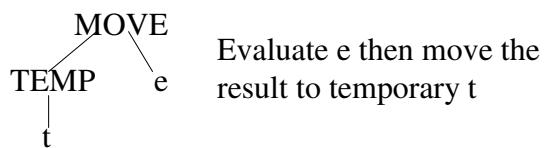
IR Trees – Expressions 1/2

CONST i	Integer constant i
NAME n	Symbolic constant n
TEMP t	Temporary t - a register
MEM m	Contents of a word of memory starting at m

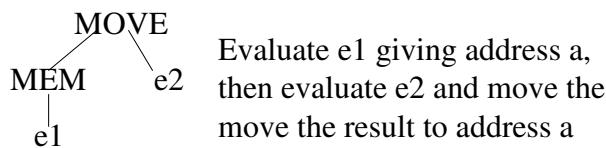
IR Trees – Expressions 2/2

BINOP op e1 e2	e1 op e2 - Binary operator Evaluate e1, then e2, then apply op to e1 and e2
CALL f (e1....en)	Procedure call: evaluate f then the arguments in order, then call f
ESEQ s e	Evaluate s for side effects then e for the result

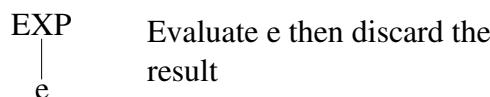
IR Trees – Statements 1/2



Evaluate e then move the result to temporary t

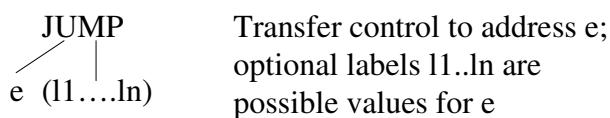


Evaluate e1 giving address a, then evaluate e2 and move the move the result to address a

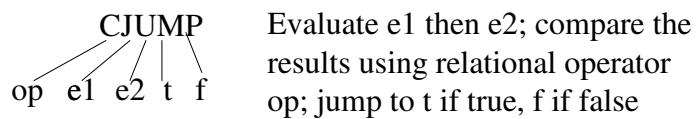


Evaluate e then discard the result

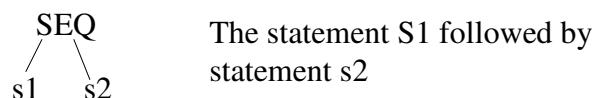
IR Trees – Statements 2/2



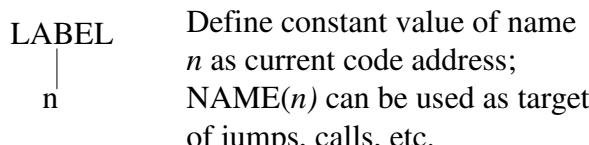
Transfer control to address e; optional labels l1..ln are possible values for e



Evaluate e1 then e2; compare the results using relational operator op; jump to t if true, f if false



The statement S1 followed by statement s2



Define constant value of name n as current code address; NAME(n) can be used as target of jumps, calls, etc.