

1-7/	assign mapped all vare to mem		
	regallox map some vars to regs and some to mem		
	big vars, mem - (smull vegs)		
lx	naive: all mem		
lωx	less name: first Registers get reg, e	se mem	
10000×	better: some because pairs of variables don	Loverlappin usefulnes	5,
	So, they can share registers	entered to the second to the s	
30000 x	best: range-splitting (move a lightly us	sed variable to mem	
	when lightly used)		
	Liveness = when a variable is needed		
and the second s	a range of program points	1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Interference = when two variables are needed at once		
	an overlapping of ranges (i.e. her	ig in the same libeross-s	se t
	Spilled = avariable not in a register		
		writes-to	
	L; = the liveness set of instruction i	W; instr > Vars	
	La: = liveness before i	R: instr -> vars	
	Lbi = liveness after i' nefore	, enc - Han	
	Lb0 = \ La0 = \ La,14 = \ \		
	La, K = Lb, K+1		
	$L_{b,k} = (L_{a,k} - W(k)) \cup R(k)$		
	$W(addg sd) = {d}$ $W(movg sd) = {d}$		
depoint and decisions			
	$R(addg s d) = \{s,d\}$ whole $s d) = \{s\}$		

4-3/

Interferences = live at same time

u interfere with v iff

in the same time

u interfere with v iff

7.

for Q = 0 to N variables for V = UH to N variables for i = 0 to eop (13) if $U \in L(i) \land V \in L(i)$ m[u][V] = 1break = 0

Interference graph I = (Vars, E) Euv iff underformith for i = 0 to EoP(13)match instr i with $(movg \ s \ L) = 7 \ \forall \ v \in L(i)$, add (d,v) to Erespectively. $(addg \ s \ d) \Rightarrow \forall v \in L(i)$, add (d,v) to Esubgraphs

 $0.0 \times 10^{-1} \times 10^{-1}$

reag is like add but who s



