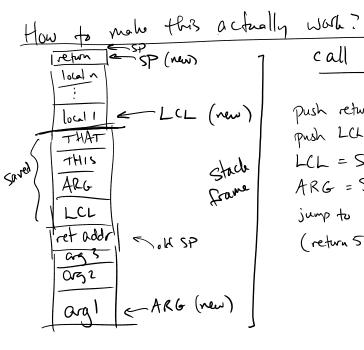
Hack VM, part 2!	
Branching instructions: label, &	sto, if-goto.
label name	(function_name \$ name)
goto name	O; TMP
if-goto rame = pop from stack. If	
true, Gump to nome. S JLT.	- chechs if 1st bit is 1.
Functions! Everything is a function name in # of are - call name in	Bootstrop code! SP = 256. Call "Sys. init" D Granutt Granuett Common setyp, coll main.
- return	/ how do they work @ the VM level?
- From POV of the celler	getern value 3 on skel. 3 "call f 3" — 3 Go To SLEEP — G
- From POV of the callee	and inchanged.
Stack is empty	- Stack empty - arg segment cutains args - local segment Alled w/ O's - Can do what we want w/ then, then, temp- - when clone, push return value on stock + Call 'return'.



call name

push return address @return 5 push LCL, ARG, HIIS, THAT LCL = SP ARG = SP - S - mjump to filename. functionname. (return 5)

VM - Assembly. ret = value @ (frame-5) (*(Pame-5)] Take @ eddress store O ARG. SP= ARG +1 THAT = value @ (frame -1) THI(= " @ (fame - ?) ... ARG LCL. jump to ret.