

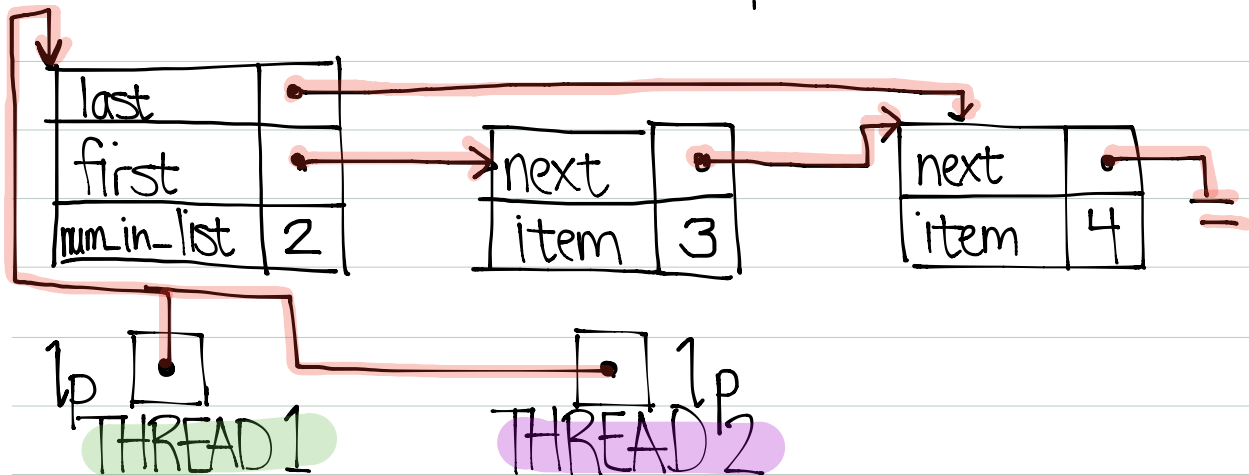
sysctl.conf - can change # of processors

mutual exclusion - only one thread at a time is allowed to access an object

critical section - where there are shared objects

atomic operation - indivisible: "happens or doesn't"

int list_remove_front(list* lp)



The keyword **volatile** will tell the compiler that there are other threads that could access and alter a variable. Used to declare shared variables.

If volatile is not used, the compiler will optimize the code such that some code is not run.

On a uniprocessor disabling interrupts will enable mutual exclusion.

Thread 0

flag[0] = true

turn = 1

while (flag[1] && turn == 1) { }

/* critical section */

flag[0] = false

Thread 1

flag[1] = true

turn = 0

while (flag[0] && turn == 0) { }

/* critical section */

flag[1] = false;