

Optional Make-up Problem Set  
Due Sunday March 19, 11:59pm

1. Add support for containers to xv6. A container is an execution environment, such that no process running in a different container can affect the correctness of processes running in the first container. Hint: you may assume that processes do not depend on their rate of progress.
2. Add container-based processor allocation to xv6, to provide fair allocation of CPU time between containers.
3. Add container checkpoint/restart (e.g., so that containers can be migrated to other machines). Hint: what happens if a system call is in progress when the checkpoint starts? Lazy asynchronous system calls provide a possible solution.