CS460 LAST Assignment Help

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1. sdimage: An EXT2 file system /
                               ---bin : commands
                               ---dev : specail files
                               ---etc : passwd
                               ---user: user home dirs
2. Wanix Kernel:
                 Process
                            I/O buffer | Device
                Management | EXT2 FS | Drivers
3. Wanix Start:
  ts.s : initialize SVC, IRQ, and other modes stacks;
          copy vector table to PA 0;
          make page table for PO, enable MMU for VA->PA mapping
          call main() in t.c
  main(): initialize IRQ handlers, I/O devices using interrupts;
          kernel init: initialize kernel data structures;
                      create and run P0;
          mount root: mount the root file system on sdimage
          PO creates P1 by kfork("init"): load init as the Umode image of P1
          PO switch to run P1 in Umode
  P1: run init in Umode:
      fork() P2, P3, P4 to run login on different terminals;
      P1 waits for ZOMBIE child;
  P2: run login /dev/tty0
  P3: run login /dev/ttyS0
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P2: login on /dev/tty0 (console=LCD, keyboard)
     open OWN terminal as 0, 1, 2
     login:
     password:
   After user login, becomes the user's process;
                    exec to sh.
sh: loop:
     Ask for user input line: cmd arg1 arg2 ... argn
     Simple commands: fork() a child to execute cmd;
                     wait for child termination;
                     repeat loop
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