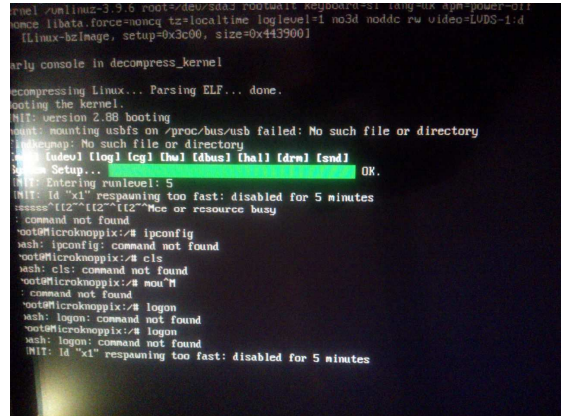
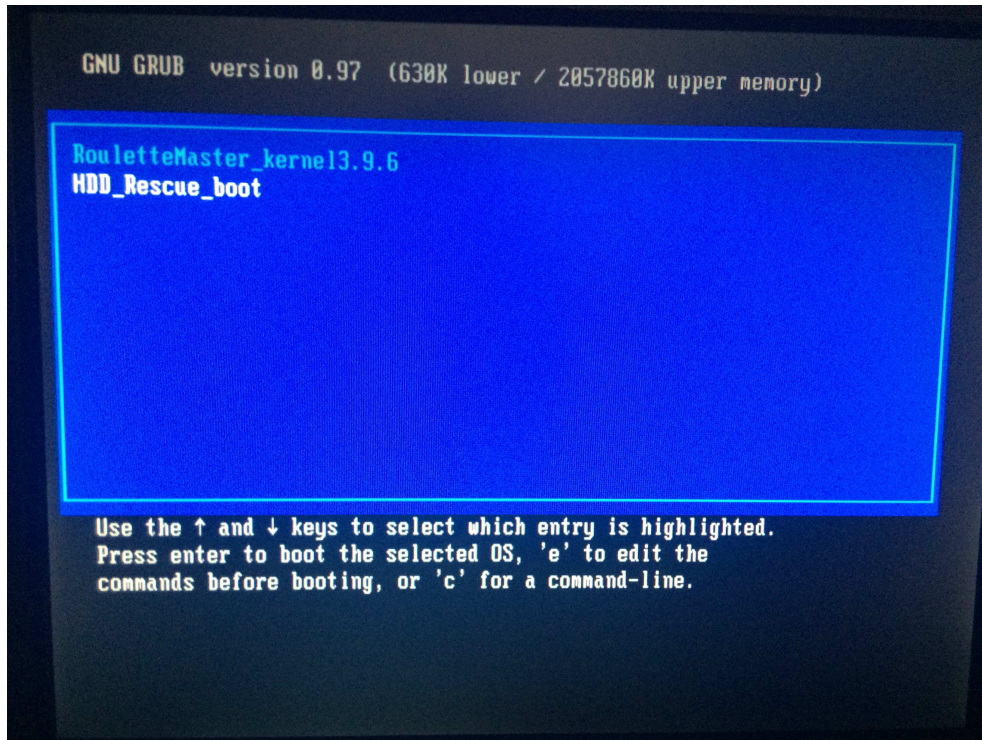


This procedure can sometimes recover a damaged filesystem on roulette. To avoid filesystem damage, you should NEVER TURN OFF the machine by unplugging power supply or by holding the power button for 5sec. For shutting down the machine please follow the instruction on how to correctly power off.



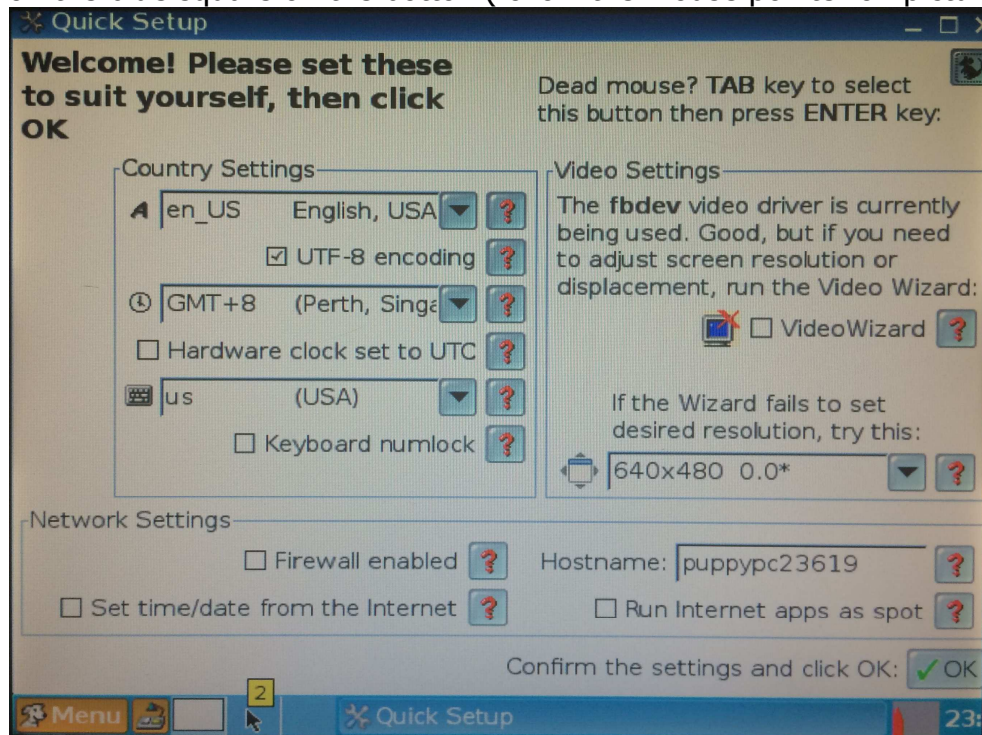
Step 1: Reboot master computer into rescue mode

Just after computer restart keep pressing buttons UP/DOWN on your keyboard. A boot menu should show up right after bios screen. Select HDD_Rescue_boot and press ENTER. Wait for the operating system to boot.

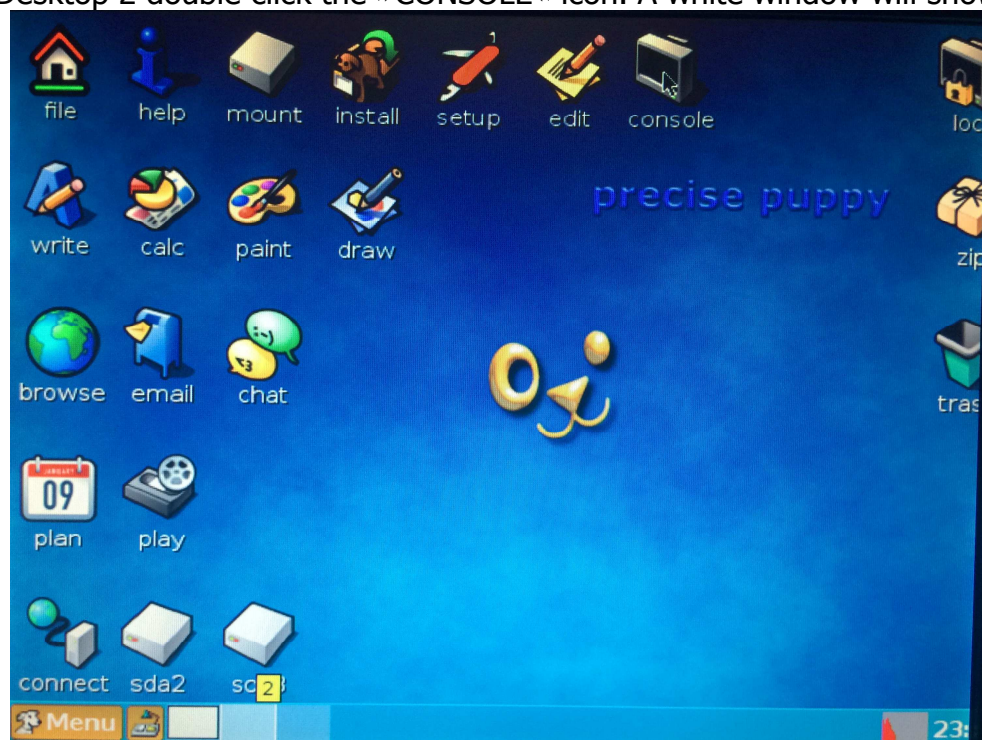


Step 2: Start console from desktop

When os finishes booting, you will see the following screen. Select Desktop 2, by clicking on the blue square on the bottom(follow the mouse pointer on picture).



On Desktop 2 double click the »CONSOLE« icon. A white window will show up.

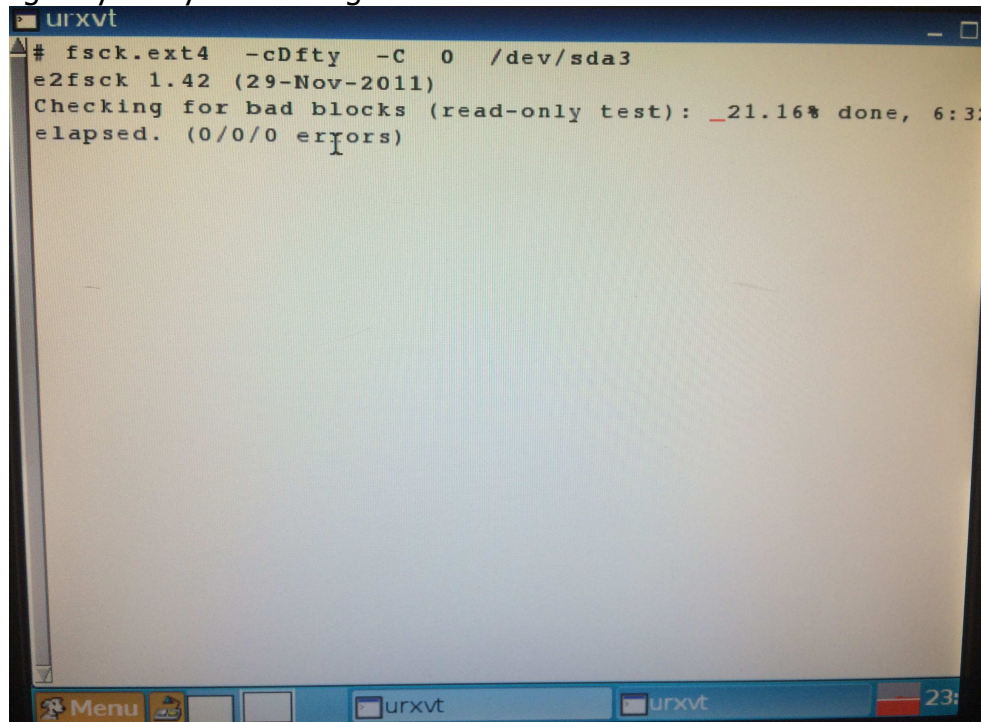


Step 3: Enter the command to start the scan process

Into CONSOLE input the following command and press ENTER to start the process:

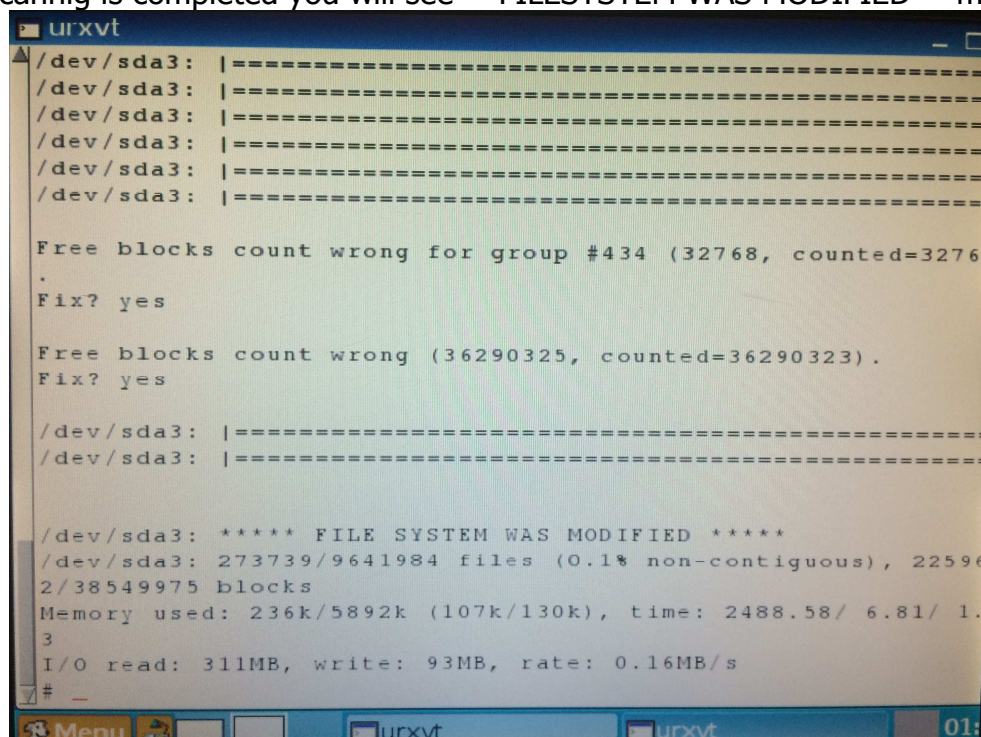
fsck.ext4 -cDfty -C 0 /dev/sda3

Please mind uppercase/lowercase letters and spaces in the command. The command has to be inserted exactly as is. Process may take more than 1 hour to complete, depending on your system configuration.



```
urxvt
# fsck.ext4 -cDfty -C 0 /dev/sda3
e2fsck 1.42 (29-Nov-2011)
Checking for bad blocks (read-only test): 21.16% done, 6:32
elapsed. (0/0/0 errors)
```

When scanning is completed you will see ****FILESYSTEM WAS MODIFIED**** message:



```
urxvt
/dev/sda3: |=====
/dev/sda3: |=====
/dev/sda3: |=====
/dev/sda3: |=====
/dev/sda3: |=====
/dev/sda3: |=====

Free blocks count wrong for group #434 (32768, counted=3276
.
Fix? yes

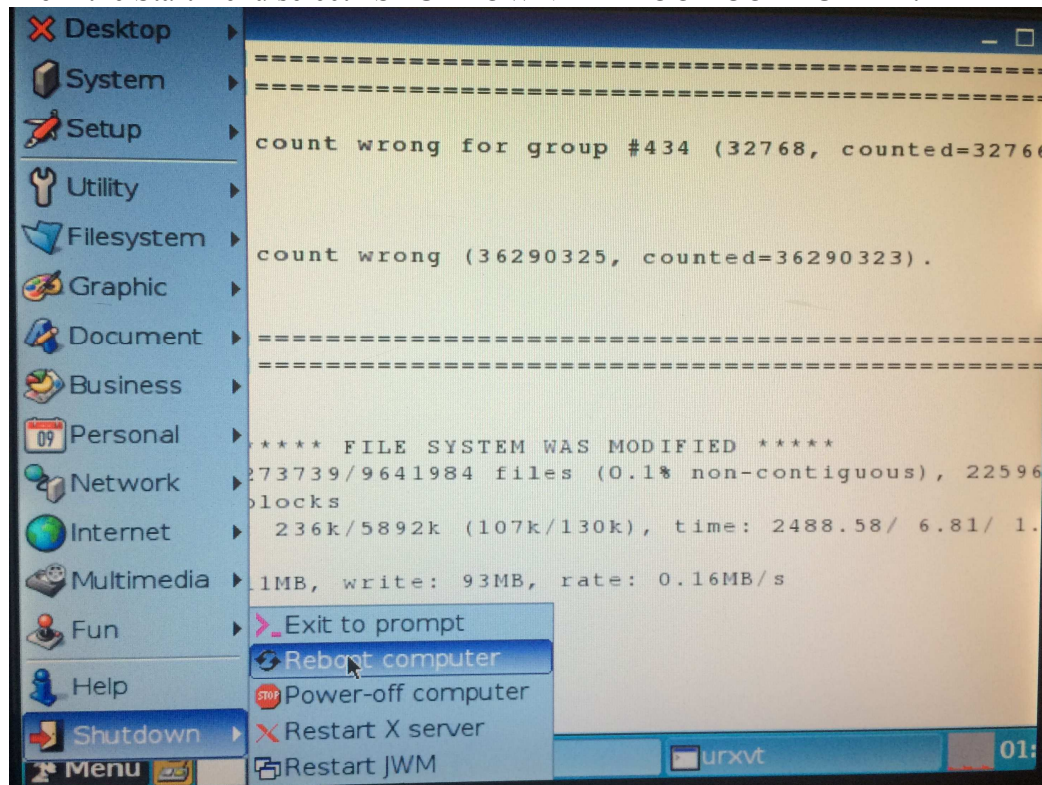
Free blocks count wrong (36290325, counted=36290323).
Fix? yes

/dev/sda3: |=====
/dev/sda3: |=====

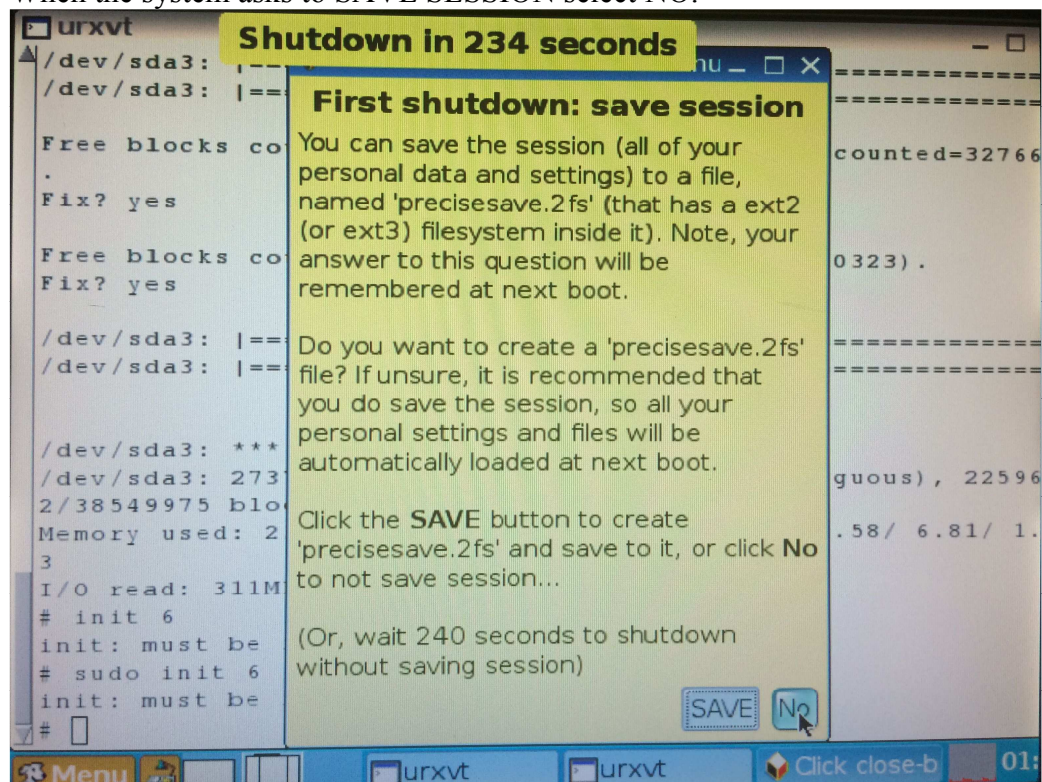
/dev/sda3: ***** FILE SYSTEM WAS MODIFIED *****
/dev/sda3: 273739/9641984 files (0.1% non-contiguous), 22596
2/38549975 blocks
Memory used: 236k/5892k (107k/130k), time: 2488.58/ 6.81/ 1.
3
I/O read: 311MB, write: 93MB, rate: 0.16MB/s
#
```


Step 4: Reboot recoveryOperatingSystem

From the StartMenu select »SHUTDOWN->REBOOT COMPUTER«.



When the system asks to SAVE SESSION select NO.



Step5: Boot the Roulette Operating System

After restart just leave the boot process to continue as usual. No user input is necessary. I hope this instruction were usefull, and that the roulette system will boot normally from now on.

