26.5. LABS



Exercise 26.1: Kernel Modules

- 1. List all currently loaded kernel modules on your system.
- 2. Load a currently unloaded module on your system.

If you are running a distribution kernel, this is easy to find; you can simply look in the <code>/lib/modules/<kernel-version>/kernel/drivers/net</code> directory and grab one. (Distribution kernels come with drivers for every device, filesystem, network protocol etc. that a system might need.) However, if you are running a custom kernel you may not have many unloaded modules compiled.

- 3. Re-list all loaded kernel modules and see if your module was indeed loaded.
- 4. Remove the loaded module from your system.
- 5. Re-list again and see if your module was properly removed.

Solution 26.1

- 1. \$ 1smod
- 2. In the following, substitute whatever module name you used for 8139too. Either of these methods work but, of course, the second is easier.
 - \$ sudo insmod /lib/modules/\$(uname -r)/kernel/drivers/net/ethernet/realtek/8139too.ko
 - \$ sudo /sbin/modprobe 8139too
- 3. \$ 1smod | grep 8139too
- 4. Once again, either method works.
 - \$ sudo rmmod 8139too
 - \$ sudo modprobe -r 8139too
- 5. \$ 1smod | grep 8139too

LFS201: V_2018-12-25

