

Exercise 7.1 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 /lib/modules/<kernel-version>/kernel/drivers/net 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 7.1

- 1. \$ 1smod
- 2. In the following, substitute whatever module name you used for 3c59x. Either of these methods work but, of course, the second is easier.
 - \$ sudo insmod /lib/modules/\$(uname -r)/kernel/drivers/net/3c59x.ko
 \$ sudo /sbin/modprobe 3c59x
- 3. \$ 1smod | grep 3c59x
- 4. Once again, either method works.

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$ sudo rmmod 3c59x
$ sudo modprobe -r 3c59x
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5. \$ 1smod | grep 3c59x

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