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Answers to Even-numbered Exercises

2. How would you display a list of all loaded modules in the current kernel?

   Give the command **lsmod**.

4. How would you display information from the kernel about the hard disk on the first IDE channel?

   The dmesg utility displays the kernel-ring buffer, where the kernel stores messages. The following command displays the lines from this buffer that contain the string **hda**, which refers to the first IDE disk:

   ```
   $ dmesg | grep hda
   ```

6. What is a boot loader?

   A boot loader is a very small program that the bootstrap process uses as it brings a computer from off or reset to a fully functional state. The boot loader frequently resides on the starting sectors of a hard disk called the master boot record (MBR).

8. You have just installed an Adaptec SCSI card. How can you find out whether it has been recognized and which entry in **/de**v represents it?

   ```
   $ dmesg | grep –i adaptec
   ```

10. How would you obtain a list of all network-related kernel parameters?

    The sysctl utility displays and configures kernel parameters at runtime. Give the following command to display network-related kernel parameters:

    ```
    $ /sbin/sysctl –a | grep net
    ```