## **ANSWERS** TO EVEN-NUMBERED EXERCISES

2. What is the MBR?

The MBR is the master boot record. It is the boot loader that frequently resides on the starting sectors of a hard disk.

4. What does the /etc/init/rsyslog.conf file do? When does it stop? What does the respawn keyword in this file mean?

The /etc/init/rsyslog.conf file controls the rsyslogd service, which logs messages. The stop on runlevel [06] line stops the service when the system is being brought down (runlevel 0) and when it is being rebooted (runlevel 6). The respawn keyword causes init to restart logd if it stops at a point other than when the system enters runlevel 0 or 6.

6. What is a boot loader?

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

8. When it puts files in a **lost+found** directory, fsck has lost the directory information for the files and thus has lost the names of the files. Each file is given a new name, which is the same as the inode number for the file:

```
1s -1 lost+found
-rw-r--r-- 1 max pubs 110 06-10 10:55 51262
```

How can you identify these files and restore them?

Run file on the files in **lost+found**. View any readable file (e.g., text, C program, ASCII, shell script) using less or a text editor. Running strings on an executable file might help figure out which program it is. The **ls** –**l** command

displays the name of the owner of the file and the group it is associated with; gather additional information from users regarding which files are missing.

10. When a user logs in, you would like the system to first check the local /etc/passwd file for a username and then check NIS. How do you implement this strategy?

The /etc/nsswitch.conf file controls the order in which sources are consulted to fulfill a request from the system. The following entry in this file causes the system to check /etc/passwd first and NIS second:

passwd: files nis

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

\$ dmesg | grep -i adaptec