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ANSWERS TO EVEN-NUMBERED EXERCISES

2. Which command would you give to update all installed packages using yum?

```
# yum update
```

4. Suggest two advantages that rpm files have over source distributions.

Some advantages are automatic dependency resolution, fast installation, simple uninstall, ability to query the package database, and easier deployment. Also, many software packages with complicated configuration scripts examine the local system to determine which options to compile with, so you may end up with different executables on different systems. Using distribution binary packages keeps documentation consistent with installed programs and makes it possible for developers to reproduce bugs more easily.

6. What are some steps you should take before performing an upgrade on a mission-critical server? When should you use `rpm -i` instead of `rpm -U`?

Perform the upgrade on an identically configured spare system and see what breaks and how to fix it. In particular, look for `.rpmsave` files and see which configuration information needs to be changed manually. Before you begin the upgrade, make a complete backup copy of the server.

Use the `-i` option when you install a new kernel. The `-i` option installs a kernel that does not overwrite the old one as `-U` would. Having the old kernel gives you a backup in case the new kernel fails.