

# How to make X listen on port 6000

<http://gentoo.linuxhowtos.org/TipsTricks/qpkg.pdf>

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## Using qpkg

This tip demonstrates some basic uses of the "query package" (qpkg) which allows you to perform get information about installed or uninstalled packages on your system. It can be used to find package ownership of files, to find duplicate packages, to list the files installed by a package, and more.

To get qpkg you need to install app-portage/gentoolkit.

### Code Listing 1: Installing gentoolkit

```
# emerge app-portage/gentoolkit
```

Now that you have qpkg installed, you can start using it to examine your system. The first example is figuring out which package owns which file. This is done with the `--find-file` (or alternatively `--find-pattern` option).

Note: To get a complete list of packages and the version installed on your machine use the command `qpkg --installed --verbose`.

### Code Listing 2: Finding the package that owns a file

```
// Which package owns /etc/crontab?
% qpkg --find-file /etc/crontab
sys-apps/vcron *
```

  

```
// What version of vcron? (--verbose)
% qpkg --find-file --verbose /etc/crontab
sys-apps/vcron-3.0.1-r1 *
```

  

```
// Where's the ebuild for this file? (--verbose --verbose)
% qpkg --find-file --verbose --verbose /etc/crontab
  /var/db/pkg/sys-apps/vcron-3.0.1-r1/vcron-3.0.1-r1.ebuild
sys-apps/vcron-3.0.1-r1 *
```

To list all the files a package installed, use the `--list` option.

### Code Listing 3: Listing all the files installed by a package

```
% qpkg --list units
// Directories were snipped for brevity
app-sci/units-1.74 *
CONTENTS:
/usr/bin/units
/usr/share/doc/units-1.74
/usr/share/doc/units-1.74/README.gz
/usr/share/doc/units-1.74/NEWS.gz
/usr/share/doc/units-1.74/INSTALL.gz
/usr/share/doc/units-1.74/COPYING.gz
/usr/share/doc/units-1.74/ChangeLog.gz
/usr/share/man/man1/units.1.gz
/usr/share/info/units.info.gz
/usr/share/units/units.dat
```

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The last example shows you how to find which packages depend on a specified package using `--query-deps`.

## Code Listing 4: Finding dependencies

```
% qpkg --installed --query-deps mozilla
net-www/mozilla-1.4-r3 *
DEPENDED ON BY:
    net-mail/evolution-1.4.3
    net-www/galeon-1.3.9
```

Note: Not specifying `--installed` causes `qpkg` to look inside the entire Portage tree which is probably not what you want.

This should get you started with `qpkg`. For more options see `qpkg --help` or `man 1 qpkg`.

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