

# Republishing a package after modifying its manifest

To keep this concrete, we will use the example of removing some symbolic links from the `developer/gcc-3` package. That places symlinks to itself in `/usr/bin`, something we do not want, since a newer version of `gcc` is preferred in OI, and we want symlinks to that version to reside in `/usr/bin`.

First, we use `pkgrecv` to retrieve the package so that we can modify it.

```
herzen@oi:~/tmp$ pkg list -afv gcc-3
FMRI                                IFO
pkg://openindiana.org/developer/gcc-3@3.4.3,5.11-0.151.1:20110912T022602Z  -
herzen@oi:~/tmp$ mkdir IPS_raw
herzen@oi:~/tmp$ pfexec pkgrecv -s http://pkg.openindiana.org/dev-1l -d IPS_raw --raw pkg://openindiana.org
/developer/gcc-3@3.4.3,5.11-0.151.1:20110912T022602Z
herzen@oi:~/tmp:$ cd IPS_raw
```

We now have a directory `developer/gcc-3` with a directory `3.4.3%2C5.11-0.151.1%3A20110912T022602Z` in it, which is the raw IPS package. In the latter directory, we edit `manifest` to remove the symlinks we do not want from it. So, for example, we delete the line

```
link path=usr/bin/gcc target=../sfw/bin/gcc
```

Also, we need to remove the timestamp from the FMRI defined in the top line of the manifest. So we change

```
set name=pkg.fmri value=pkg://openindiana.org/developer/gcc-3@3.4.3,5.11-0.151.1:20110912T022602Z
```

to

```
set name=pkg.fmri value=pkg://openindiana.org/developer/gcc-3@3.4.3,5.11-0.151.1
```

Finally, we use `pkgsend` to republish the modified package to the local file-based `repo.in /export/repo`.

```
herzen@oi:~/tmp$ pfexec pkgsend -s /export/repo publish -d 3.4.3%2C5.11-0.151.1%3A20110912T022602Z --fmri-in-
manifest 3.4.3%2C5.11-0.151.1%3A20110912T022602Z/manifest
```

You can now install our new `gcc-3` after finding out its FMRI by doing `pfexec pkg list -afv gcc-3`. (We run that as root to allow `pkg` to refresh its list of packages.)