



Slackware Software Packaging: How and Where To Start

How many of you are aware of the steps in creating Slackware packages

Pritvi Jheengut

13 March 2015





- 1 Introduction
- 2 What is a Package?
- 3 Preparation For Building
- 4 The End



- 1 Introduction



Shell

- Some basic shell programming skills
- GNU Coreutils

Example

GNU Coreutils

- mkdir
- cat
- Is



- tar

- tar
- install

- tar
- install
- cp/mv

- tar
- install
- cp/mv
- chmod/chown





tgz gzip



tgz gzip

tbz bzip2



tgz gzip

tbz bzip2

txz xz/lzma



- pkgtool The Package Manager





- pkgtool The Package Manager
- http://tukaani.org/pkgtools/ an old forked version





- pkgtool The Package Manager
- installpkg





- pkgtool The Package Manager
- installpkg
- removepkg





- pkgtool The Package Manager
- installpkg
- removepkg
- upgradepkg





- pkgtool The Package Manager
- installpkg
- removepkg
- upgradepkg
- explodepkg





- pkgtool The Package Manager
- installpkg
- removepkg
- upgradepkg
- explodepkg
- makepkg The Package Creator/Maker





- pkgtool The Package Manager
- installpkg
- removepkg
- upgradepkg
- explodepkg
- makepkg The Package Creator/Maker
- slackbuild scripting





- 1 Introduction
- 2 What is a Package?
- 3 Preparation For Building
- 4 The End





A Package

Definition: An archive format with/out instructions used for the installation of files on a system

Example

- t?7
- deb
- rpm



- 1 Introduction
- 2 What is a Package?
- 3 Preparation For Building
- 4 The End



mktmp
cd /tmp/\$"The_Temporary_File_Just_Created"

mktmp

Create temporary files/directoies that are predictable, safe and to avoid possible race conditions.

/tmp

The /tmp directory is assumed to cleaned regularly, sometimes assumed a tmpfs is mount over tmp

Prepare The Build Directory Populating The Build Directory



Dump The Source Code

copy the source code archive into the tmp dir afterwards extract files into the 'mktmp' directory

```
cp ${old path}/${source code archive} .
OR
wget/curl protocol://url/
    ${source code archive}
mkdir build
cd build
tar -xvvf ../"${source_code_archive}"
unzip ../"${source_code_archive}"
```





Example





- 1 Introduction
- 2 What is a Package?
- 3 Preparation For Building
- 4 The End

Goal

- slack the hard way
- sip some beer
- Take over the world
- Relax...





LaTeX Beamer

http://latex-beamer.sourceforge.net/



KDE Presentations

http://www.kde.org/kdeslides/





Questions?

Pritvi Jheengut z.coldplayer@gmail.com

