# Slackware System

Useful system level notes.

## Listing Packages

Simply list files in /var/log/packages (path is actually a link to `/var/lib/pkgtools/packages/`).

```
# ls -l /var/log/packages/
```

List full package name (with version) only

```
# for that in $(ls /var/log/packages/) ; do echo $that ; done | sort
```

List installed package name only

```
# list=$(ls /var/log/packages/) ; for that in $list ; do that=${that%-*} ;
that=${that%-*} ; that=${that%-*} ; echo $that ; done
```

Find installed packages that are not in Slackware tree

```
slackfull=slackware64-15.0 ; slacktree=/home/share/slackware/$slackfull ;
for pkg in $(ls /var/log/packages/) ; do
    pkgf=$(find $slacktree/ -name "${pkg}.txz") ;
    [ -f "$pkgf" ] && continue ;
    echo "** Package '$pkg' is alien!" ;
done
```

This can also be done using `slackview` script (in my1shell repo)

```
# slackview find --alien
```

View information on specific package

```
# slackview find [pkg_name]
```

To list all official packages without DE

```
for pack in a d k l n ap t tcl x xap ; do
  slackview file --name pkgs.txt --insert --pack $pack ;
done
```

To list currently installed packages (to be used in my1live)

- get all installed packages into *pkgs.txt*

```
# slackview file --name pkgs.txt --insert --installed
```

- sort packages in *pkgs.txt* based on software sets

```
# slackview file --name pkgs.txt --sort
```

- remove those already in *pkgs.txt*

```
slackview file --name pkgs.txt --dups curr.list
```

# Building Custom Kernel

- run shell script (getlinux)
- select version, download source
- extract at `/usr/src/` (e.g. linux-4.4.199)
- copy a config from `/boot`

```
# cp /boot/config-generic? > .config
```

- use that config

```
# make oldconfig
```

- configure build

```
# make menuconfig
```

- build the kernel

```
# make -j4 bzImage
```

- build/install modules

```
# make -j4 modules && make modules_install
```

  - `modules_install` requires root, obviously!
- copy (as root) kernel

```
cp arch/x86/boot/bzImage /boot/vmlinuz-generic-4.14.12
cp System.map /boot/System.map-generic-4.14.12
cp .config /boot/config-generic-4.14.12
```

- generate initrd if using generic

```
mkinitrd -c -k 4.14.12 -f ext4 -r /dev/sda3 -m ext4 -u -o
/boot/initrd.gz
```

  - a useful initrd generator script IS available
  - run `/usr/share/mkinitrd/mkinitrd_command_generator.sh`
  - then run the generated/recommended command
  - checkout the `-P` option if required

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