

# Slackware System

Useful system level notes.

## Listing Packages

Simply list files in /var/log/packages (This 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
```

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 mylshell repo)

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

Find installation log for standard packages

```
slackfull=slackware64-15.0 ; slacktree=/home/share/slackware/$slackfull ;  
for pkg in $(find $slacktree/ -name "*.txz" | sort) ; do  
    base=$(basename $pkg) ;  
    name=${base%.*} ;  
    test="/var/log/packages/$name" ;  
    [ -f "$test" ] && continue ;  
    echo "*** Cannot find file for $test" ;  
done
```

To list currently installed packages (to be used in myl1ive)

- get all installed packages

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

- sort based on software sets

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

- remove those already selected for myllive

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

- rename pkgs.txt to myllive list (e.g. XXmore.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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