

“Recipe” for Building a Kernel

CS 325

```
cd
mkdir build
cd linux-2.6.27.1
cp minimal.config ../build/.config
# In the menuconfig tool, select 'General setup' and then select 'Local
# version'. Change the local version string to something like _TPK_00 .
# Exit the tool, saving the new .config file.
make O=/home/kdev/build menuconfig
make O=/home/kdev/build
# Must first edit /etc/group and /etc/sudoers for sudo to work as intended.
sudo make O=/home/kdev/build modules_install install
```

Gaining root:

```
su -
```

Exiting root:

```
exit
```

Getting sudo to work:

As root, edit /etc/group. Find the line

```
wheel:x:10:root
```

and change it to:

```
wheel:x:10:root,kdev
```

Save the file. Now, again as root, edit /etc/sudoers. Find the lines

```
## Same thing without a password
# %wheel    ALL=(ALL)    NOPASSWD: ALL
```

(they're near the end of the file) and edit the second line so that it

reads

```
## Same thing without a password  
%wheel    ALL=(ALL)    NOPASSWD: ALL
```

(you've just un-commented that line). Exit root, exit the shell, and start a new shell. You should be able to successfully run

```
sudo ls /root
```

without the shell complaining. If not, logout completely and login again. If that still doesn't work, you did something wrong. Go back and double-check everything.