- 1. In the top-level kernel source directory, copy the config file for your current kernel from /boot, and call it .config. You will start with that. The file name should be something like /boot/config-<kernel version>.
- 2. Use make menuconfig or make xconfig to configure the kernel.

Some parameters to make sure to select:

General setup

Kernel .config support

General loadable module support

Enable loadable module support.

Module unloading

Forced module unloading

Device drivers

Network device support

Your system's network driver (as a module, try ethtool -i eth0 # or maybe eno1. The command "ip addr show" will list your interfaces )

File systems

DOS/FAT/NT filesystems

MSDOS fs (as a module)

VFAT (as a module)

Kernel hacking

Kernel debugging

Tracers

Kernel function graph tracer

- 3. Compile the kernel to a bootable bzImage format with make. What files were added to your current directory? What files were added to arch/x86/boot?
- 4. Install the modules with make modules install.
- 5. Copy the bzImage file to the /boot directory. You can accomplish these on most systems with just "make install". On Ubuntu, you may need to do some extra steps after make install. For example, create a new initramfs with the command mkinitramfs