

## Linux Kernel Fundamentals: Chapter 4, Examining Linux Kernel Source Code

1. Fetch the kernel source as an RPM.
2. Fetch the Ubuntu kernel source.
3. For your kernel, do make cscope and make tags.
4. Look at the first few lines of Makefile. What kernel version is it? Does it match `uname -r`? In the kernel Makefile, set `EXTRAVERSION` to `--<YOUR NAME>`. For example: `EXTRAVERSION = -kevin`.
5. Test the ctags facility of the `vi` text editor.
  - Look up the function in the Linux kernel called `sys_open()`. If you find macro definitions at first, do `:tn` to find the next definition, and until you find the function definition.
  - The `sys_open()` function makes use of other functions. Move your cursor to one of these functions and hit Ctrl-]. What happened?
  - Hit the key sequence Ctrl-T. What happened?
  - Use the `:tag` command to look up the tag `atomic_inc`. Use the `:tn` command. What did this do? What does the `:ts` command do?
  - Without changing directories, load the file `3c59x.c`.
  - Use the command `:tags`. What does this show?