Tutorial—Linux Kernel Source Code Reading
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1. Background

I try to document the steps when I set up a environment for reading Linux Kernel Source Code. Hopefully next time when I need to do the same thing again I can reuse this documnet to do it effectivly. If it can also help others when performing the similar task, it will be great.

2. Steps Outline

Download Linux source code
Install ctags
Install ncurses
Install cscope
Re-install vim
Get file list of source code
Use ctags
Use cscope

2. Download Linux source code

2.1. Download Linux source code through git

1). Download Git from `http://git-scm.com/#download`.

2). Upload the installation file to the target directory and unzipped it as follows.

```
tar -zxvf file.name
```

3). Executing the following commands.

```
./configure
make
sudo make install
```

4). create file prepare.txt with the following content. echo $PATH; export PATH=$PATH:/home/oracle/exer/git-1.6.3.3/git-1.6.3.3/: echo $PATH;

5). execute the command to set the path every time.

. ./prepare.txt

6). execute command below to get the source code of linux. git-clone git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux-2.6.git linux-2.6

*Here linux-2.6 is the top folder for Linux source code.

2.2. Download Linux source code through http

git is blocked by firewall, instead I download the source code from `http://www.kernel.org/`.
click the "F" link, which stands for the Full Source Code.

2. install ctags

and add /usr/local/bin into the PATH

3. install ncurses.

4. install cscope.

5. Re-install vim.

6. Get file list of source code.

7. Use ctags in vim.

8. Use cscope in vim.

7. 4/3/2008 3:33PM cscope
cd /home/oracle/exer/linux/linux-2.6.30.1;
LNX='pwd';
echo $LNX;
find $LNX \
-path "$LNX/arch/*" ! -path "$LNX/arch/x86*" -prune -o \
-path "$LNX/firmware*" -prune -o \
-path "$LNX/Documentation*" -prune -o \
-path "$LNX/scripts*" -prune -o \
-path "$LNX/drivers*" -prune -o \
-path "$LNX/samples*" -prune -o \
-path "$LNX/sound*" -prune -o \
-path "$LNX/net*" -prune -o \
-name "*.[chxsS]" -print ¿/home/oracle/exer/linux/cscope.files