

Operating Systems: Homework – 1

26th January 2009

Kernel Tracing

You should do your read-through the Linux source code available at <http://cs418.cs.jhu.edu:8080/source/> or <http://lxr.linux.no> for 2.6.23.15 version of the kernel. Note that the OpenGrok system on cs418 is local and may be faster. You should assume that the application has already done

```
fd = open("/dev/zero");
```

and is now doing

```
read(fd, buf, 4096);
```

Beginning at the entry to `sys_read()` in `fs/read_write.c`, line 357, construct an outline of every call and return. You should assume that you are tracing a kernel compiled for the i386, and that the kernel is NOT compiled for multiprocessing (SMP is not defined). If the execution path enters the `sleep()` function, you only need to trace that sub-system once.

Submission

- This homework is due at 10am on Monday, February 2nd.
- Submission must *only* be done electronically to: `cs418instructors@cs.jhu.edu`.