CS230/330: Project 2.4
Yalnix: Judgement Day

(or how I learned to stop sleeping and love OS)

Handed out: Friday, May 21, 1999

Due: Friday, May 28, 1999, 11:59 p.m.

1 Assignment

Well, you are now on the home stretch. Fix all of the system calls and traps that didn't work in project 2.3. Also, try to get IPC working if you haven't yet done so.

2 Minimum Passing Requirements

To pass the project (and the course), your kernel must be able to run all of the programs in `/u0/yalnix/sample`. These programs are extremely simple and only exercise your kernel in the most minimal manner. To get an A on the project, your kernel must pass most of the tests for project 2.2, the tests in `/u0/yalnix/evil-tests`, and the IPC tests in `/u0/yalnix/ipc-tests`. Contrary to popular belief, it is still possible to get an A on the kernel project even if you didn't do so well on one of the early stages (such as 2.2).

3 Kernel Contest

Kernels that pass most of the tests, will be entered into a contest for the best kernel. Judging criteria will include, but is not limited to the following:

- Elegant coding style (ha!)
- Size of the kernel executable.
- Kernel memory utilization.
- Run-time performance (i.e., use of efficient data structures and algorithms within the kernel).
- Reliability and security.
- Class participation and stamina.
- Discretion of the instructor and your fearless TA.

The winner will get to implement the Yalnix file system for the final exam (a.k.a, "the project of victory"). Well, actually, that's not the real prize, but be rest assured–it is *almost* that good. Have fun (besides, who wants to go outside when there is kernel hacking to be done?)