Assignment 7: April 1 through April 8

For Lecture, Wednesday, April 1 (L 15: Authorization)

In preparation for this lecture, read the second section (pp 6-16 to 6-29) of "The protection of information in computer systems" by Saltzer and Schroeder (#25).

For Recitation, Thursday, April 2 (R 15: More security)

To prepare for recitation read Appendix 6.A from "The protection of information in computer systems" by Saltzer and Schroeder (pp 6-34 to 6-55).

For Lecture, Monday, April 6 (L 16: Certification)

The last lecture on security. No specific reading assignment for today, but you might want to get going on the reading and assignment for tomorrow.

For Recitation, Tuesday, April 7 (R 16: Safe-Tcl)

Each year we construct a handout on "Recent Issues Regarding Security and Privacy". This year's handout will be distributed in recitation on March 31. It contains three papers; the first is also available online.

- J. Ousterhout, J. Levy, B.Welch. The Safe-Tcl Security Model, Draft, March 26, 1997.
- L. Gong. Java Security: Present and Near Future. *IEEE Micro*, 17(3):14-19, May/June 1997
- L. Gong, R. Schemers. Implementing Protection Domains in the Java Development Kit 1.2. In *Proceedings of the Internet Society Symposium on Network and Distributed Security*, San Diego, CA, March 1998

Answer the question below for this week's assignment:

> "The Safe-Tcl Security Model" by Ousterhout, Levy, and Welch explains how Safe-Tcl allows different security policies for different applets rather then adopting a single security policy for all applets. Discuss the main benefit and the main risk of Safe-Tcl's approach.

See the course secretary, Neena Lyall, in NE43-523 if you didn't get one.

For Lecture, Wednesday, April 8 (L 17: Fault Tolerance)

This lecture begins a new topic of fault-tolerant computing systems. In preparation, read "Chocolate" by

Plauger (#27) and "Engineering: history and failure" by Petroski (#26). These two papers are very short, but provide you with some good insights.

System aphorism of the week

The unavoidable price of reliability is simplicity. (C.A.R. Hoare)
