Lecture 3, April 5

Reading: [Bis11]¹, §29 Assignments due: Homework #1, due April 12, 2013

Discussion question. In 2003, Senato Orin Hatch said he wanted copyright holders to be able to use special-purpose hardware to prevent piracy. The following paragraph is quoted from the PoliTech mailing list, and is dated June 19, 2003, at 10:12AM:

Sen. Orrin Hatch, R-UT, said he was drafting legislation to require devices in PCs permitting the destruction of hardware used for widescale copyright infringement by sending a secret command to the remote computer. A copyright holder would be required to offer two warnings before the "kill switch" was activated and the computer destroyed or permanently disabled, Hatch said.

- 1. What are the arguments in favor of Sen. Hatch's proposal?
- 2. What are the arguments against Sen. Hatch's proposal?
- 3. If this proposal had been adopted, what safeguards should have been put into place to prevent unauthorized activation of the "kill switch"?

Lecture outline.

- 1. Greetings and felicitations!
 - a. If you have not completed the prerequisites *in an earlier term*, please fill out the wavier form and send it to me otherwise the department *will* drop you from the course!
- 2. Robust library
 - a. Interface
 - b. Internal structures
 - c. Tokens and their generation and analysis
 - d. Functions
- 3. Some common vulnerabilities
 - a. Insecure interactions among components
 - b. Risky resource management
 - c. Porous defenses

¹This is available in the Resources area of SmartSite; look in the folder "Handouts"