

Outline for April 2, 2008

Reading: Text, §1

1. Greetings and felicitations!
 - a. Reminder: discussion section today, 2:10–3:00 PM, in 1204 Haring
2. Third generation (integrated circuits)
continued from last lecture
 - a. Protection, traps, fence registers, privileges, system calls, time sharing
 - b. Virtual machines: levels of abstraction; example: THE system
 - i. Level 0: hardware
 - ii. Level 1: segment controller process
 - iii. Level 2: operator console (message interpreter)
 - iv. Level 3: I/O handlers
 - v. Level 4: user processes
 - c. Customer service, compatibility
3. Fourth generation (VLSI)
 - a. Minicomputers: rise of the UNIX operating system
 - b. Microcomputers: workstations, personal computers, open operating systems
4. Networked and distributed operating systems
5. Operating system I/O functions
 - a. Read data: polling, interrupts*to be continued*