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CS 33003	Exam #4	CompOrg
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Wednesday 9 December 1998

1.	Compare	interrupts to	subroutines.	(12 points)
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a. In what ways are they similar?

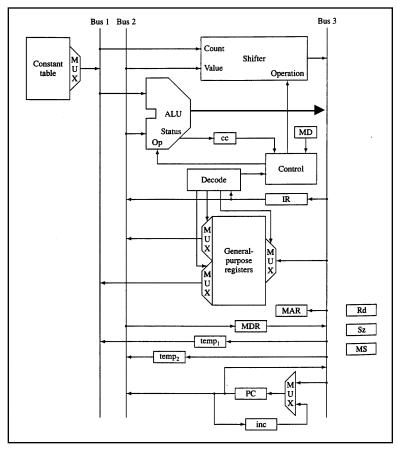
b. In what ways are they different?

- 2. Compare microprogrammed and hardwired control. (12 points)
 - a. Which is faster, and why?

b. Which is more flexible, and why?

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- 3. Given the figure of the Chapter 9 simple machine shown at the right, explain how it is used to do the following: (24 points)
 - a. Fetch an instruction



b. Execute an "add" instruction

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4.	How do the level 1 cache, level 2 cache, and main memory compare in terms of size and access time? (12 points)
5.	Briefly summarize one of the two methods for avoiding a write/read data hazard. (15 points)

7. One of the principle items supported by an operating system is the process. (15 points)

a. List some reasons why a process may be created.

b. How does a process compare to a program?