

List of Topics for Final Exam		
Slide #	Page #	Topic
1	4	Computer Systems
1	7	Assembly Language
3	8	Observations
3	9	Amdahl's Law
4	2	Memory Hierarchy
4	4	Memory
4	5	Cache Matters
5	3	Standards
6	2	Data Types/Sizes
6	7	Bit-level operations
6	8	Logical operations
6	9	Shift operations
9	3	ISA
9	9	Moore's law
12	2	Three types of machine instructions
15	3	SRAM vs DRAM
15	9	Locality
16	7	3 types of cache misses
17	6	Writing memory
18	5	Why virtual memory?
18	8	Page tables
19	2	Instruction Pipelining
20	6	Parallelism
21	5-6	Loop unrolling