Why Multiprocessors?	
 Moore's Law predicted a doubling of processor performance every couple of years true until about 2000 	
Limits on the performance of a single processor: what are they?	
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Why Multiprocessors			
Lots of workload of Scientific comp Examples: Each proof Server workloa Example: a Many cond Processors Media workloa Processors Desktop worklo	uting/supercomputing weather simulation, aerodynamics, protein ssor computes for a part of the grid ds rline reservation database urrent updates, searches, lookups, querie handle different requests s compress/decompress different parts of i ads	s mage/frames	
What would you d	with a billion transistors on a chip? Or m CSE 471 - Multiprocessors	nore? 2	









