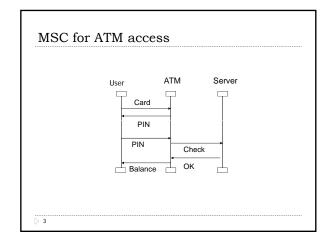
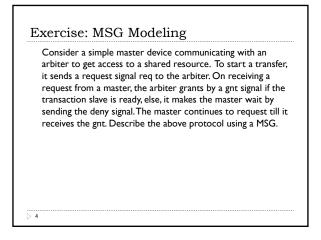
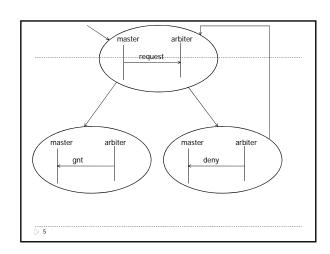
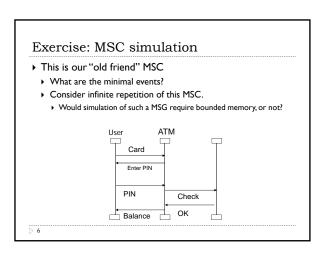
CS4271 Critical Systems & their Verification Review Questions and Revision Exercises Conducted by Abhik Roychoudhury January 26, 2011 Ack: A Banerjee for some exercises

Exercise: ATM access Consider the scenario of an user accessing an ATM machine. Describe a successful access scenario (card entry / PIN request / PIN entry / PIN authentication / Account Balance request / Balance detail) using a set of messages on a MSC. Can you identify any incomparable events in the MSC?









Exercise: MSC simulation

- Can you develop a "sufficient" condition to check whether an MSG requires unbounded memory for simulation under asynchronous concatenation.
 - Your sufficient condition should be correct any MSG you pass should indeed take up only bounded memory for simulations.
 - Your sufficient condition should be liberal it should not fail too many MSGs which actually require bounded memory.

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