

Homework 5  
CS 670 Distributed Operating Systems Theory  
(Due on 4/12/04 in class)  
(5+1+4 points)

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1. Show that if a process crashes in Manivannan-Singhal checkpointing algorithm (ICDCS-99), it will not have to roll back beyond its latest local checkpoint for recovery.  
How about other processes? (Do some of them have to roll back beyond their latest checkpoints?)
2. Show that if every process takes a checkpoint after sending a message, the set of most recent checkpoints is always consistent.