

Exercise Session 8

View Synchronous Communication

November 22, 2010

Problem 1

Give an algorithm that implements a view synchronous (VSC) abstraction such that a single consensus instance is used for every view change, and every process directly *vsDelivers* every message it *vsBroadcasts* or after the process first learns about the existence of the message.

Problem 2

The TRB-based view synchronous algorithm presented in the class is non-uniform in terms of message delivery. Can you make it uniform by replacing *Best Effort Broadcast* with *Uniform Reliable Broadcast*? Explain your answer.