

# CMSC 858S: Algorithms in Networking

Fall 2004

Hint for Ungraded Homework #1, Problem 5

Suppose you want to bound  $\mathbf{E}[A \cdot B]$  for two random variables  $A$  and  $B$  that lie in the interval  $[0, 1]$ . Then, you could try and use the inequality  $AB \leq (A + B)/2$ .