Homework 8 Foundations of Computational Science 1 Fall 2001

Due date: 5pm Friday 11/30/2001

Write and demonstrate a program that implements dynamic scheduling (with a chunk size) and static scheduling of a parallel do loop without using the OPENMP directives PARALLEL DO/END PARALLEL DO, BARRIER, or DO/END DO. You may only use the PARALLEL/END PARALLEL directive pair to start/end the parallel thread group, the CRITICAL SECTION/END CRITICAL SECTION directives, and the synchronization routines associated with lock variables.

Note that you must implement the starting of the parallel loop, the scheduling mechanisms, and the completion of the parallel loop (including the barrier synchronization operation required by the standard.)