COEN 11 - Fall 2017 - Practice VIII

Solutions on Wednesday

1. Splitting the data -- write a thread function to initialize int array x so that each element receives its index in the array: x[i] = i, and each thread initializes its portion of the array. Note that i relates to the entire array. The size of the array is N, and your program will execute with nthreads (which is a global value). Assume N is a multiple of nthreads.

2. Splitting the data -- write a thread function to initialize int 2D array x (NxN) so that each thread initializes its portion with i+j in each slot. Note that i and j relate to the entire array. Each thread operates on a strip independently, and your program will execute with nthreads (which is a global value). Assume N is a multiple of nthreads.

3. Splitting the work -- calculate the sum of a 1-d array x.