3. How expensive are threads? Write a program that times how long it takes to create and then join 1000 threads, where each thread simply calls thread_exit(0) as soon as it starts running.

5. Write a program that uses threads to perform a parallel matrix multiply. To multiply two matrices, $C = A * B$, the result entry $C_{(i,j)}$ is computed by taking the dot product of the $i$th row of $A$ and the $j$th column of $B$: $C_{i,j} = \Sigma_{k=0}^{N-1} A_{(i,k)} B_{(k,j)}$. We can divide the work by creating one thread to compute each value (or each row) in $C$, and then executing those threads on different processors in parallel, as shown in Figure 4.19.