

WHY PARALLELIZE?

- CPU clocks not going up; becoming multiprocessor/multicore
- Need to harness power of CPUs
 - Traditional serial code = boring & slow



WHAT IS OPENMP?

- API for parallel programming in C and C++
 - Supported by GCC "-fopenmp"
- Supports most processor architectures, OS
- Simple, flexible interface for developing parallel apps



HOW DOES IT WORK?

- Implicit fork/join model
- Regions of code where instructions shared
 - Loops
 - Nested loops
- Use "#pragma omp parallel" directive
 - Other directives on Reference Card



