OpenMP

- Portable code for shared-memory parallelism ("threading")
 - Multi-core workstations, HPC, etc.
 - Not frightening
- Often need to explicitly use a compiler flag to enable OpenMP support
 - GNU (Fortran/C/C++): gcc -fopenmp
 - IBM (Fortran/C/C++): xlc -qsmp=omp
 - Intel (Fortran/C/C++): icc -openmp
 - PGI (Fortran/C/C++): pgcc -mp
 - Cray:
 - LLVM/Clang (C/C++): OpenMP support is somewhat optional
 - Xcode (Mac OS X) does not seem to have OpenMP support
- Vectorization support is coming (#pragma omp simd) in OpenMP 4.0/4.1
 - GCC 4.9+
 - Intel 15+
 - LLVM/Clang 3.7+
- edison.nersc.gov:/project/projectdirs/lsst/apope/OpenMP

