

HPC Topics for Reading Quiz

cache	Moore's Law
FLOP	vectorization
pipelining	compiler Flags
object file	compiler
linker	library
makefile	git operations
superscalarity	SIMD
prefetching	profiling tools (gcov, gprof)
inlining	vector triad
storage order (C vs F90)	loop unrolling
loop strip mining	operation reduction
SISD/SIMD/MISD/MIMD	data dependence
Amdahl's Law	speedup curves
shared memory multiprocessing	distributed memory multiprocessing
pthreads coding strategy	MPI coding strategy
OpenMP directives	Identifying parallel regions
OpenMP shared and private variables	compiling/linking OpenMP and pthreads
compiling CUDA	compiling/running MPI
coarse grained vs fine grained parallelism	HPC Libraries
mutex variable	condition variables
deadlock	threadsafe