LECTURE NOTES

(1) Introduction, mpi-greetings.c, openmp-hello.c
(2) Introduction to MPI Code
(3) Collective communications I Code
(4) Caching Code
(5) Interconnection networks
(6) Communication cost
(7) Scalability
(8) Collective communications II
(9) Nonblocking communications Code
(10) Understanding communications Code
(11) Parallel program design. Tasks, critical path
(12) Introduction to parallel program analysis
(13) Example: odd-even transposition sort
(14) OpenACC. Part I, code
(15) OpenACC. Part II
(16) Data decomposition techniques
(17) Array distribution schemes
(18) Parallel N body
(19) Topologies Code
(20) Communicators and topologies: Fox’s Algorithm
(21) Parallel quicksort
(22) Distributed shortest paths
(23) Advanced point-to-point communications Code
(24) OpenMP
(25) Recursive doubling