

External resources

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Hardware abstraction

- [Paper by Andreas Herten](#) – *Many Cores, Many Models: GPU Programming Model vs. Vendor Compatibility Overview*

Kokkos

- [Documentation](#)
- [Tutorials](#)
- [Video lectures](#)

Lattice Boltzmann

- [Paper by Andreas Greiner and Lars Pastewka](#) – *HPC with Python: An MPI-parallel implementation of the Lattice Boltzmann Method*
- [Reference implementation](#)

High-performance computing (HPC)

- [Lecture by William Gropp \(UIUC\)](#) – *Designing and building applications for extreme scale systems*
- [Lawrence Livermore National Laboratory \(LLNL\)](#) – *Introduction to Parallel Computing Tutorial*
- [bwHPC training platform](#)
- [MPI standardization documents](#)

Unix

- [Software Carpentry](#) – *The Unix Shell*