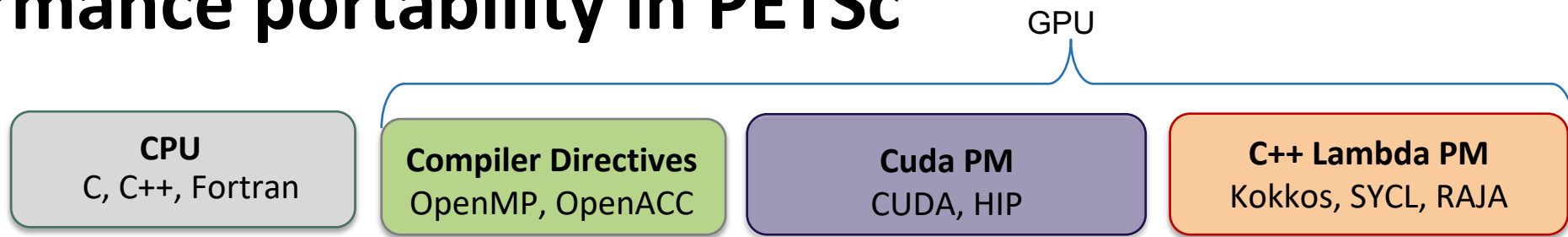


Performance portability in PETSc



Application code

Using PETSc API

Front-end PETSc vector and matrix arrays
are shared with user programming language/model

PETSc computation kernels

CPU: Use compiler options and vendor libraries for performance

GPU: Chosen for either speed of development or highest performance. Use GPU vendor libraries

Back-end PETSc Vector and Matrix
implementations

