

Rusty Green Kernel

Fast Green's function evaluations taking advantage of SIMD instructions and parallel multithreading

Rusty Translation

Trait based library for algebraic and analytical potential translation operators.

Rusty Compression

Randomised techniques for high performance low rank compression

Rusty Tree

MPI accelerated adaptive octrees for data partitioning with automated load balancing.

Rusty FMM

MPI accelerated Kernel
Independent FMM, with composable translation operators.

Rusty Inverse

MPI accelerated algorithms for approximating the matrix inverse of rank structured matrices using fast algorithms.

Local



Cluster



Cloud



Rusty Fast Solvers

Common fast algorithm interface.
Easy deployment on any platform with wrappers to user friendly high-level languages.