

# Boost



The most widely used collection of high quality, peer-reviewed C++ libraries on the planet

## Input/output

- JSONJSON parsing, serialization, and DOM
- SerializationData structure persistence and marshalling
- ProgramOptionsCommand-line argument parsing

## Data structures

- UnorderedFast regular and concurrent hashmaps
- MultIndexContainers with several view-like access interfaces
- IntrusiveIntrusive containers and algorithms
- GraphGeneric graph data structures and algorithms

## Networking

- AsioNetworking and other low-level I/O
- BeastHTTP, WebSocket, and network operations with Asio
- URLURL parsing and manipulation

## System utilities

- InterprocessProcess-shared resources and communication
- MPIMessage passing for parallel applications
- ProcessPortable process creation and management

## Metaprogramming

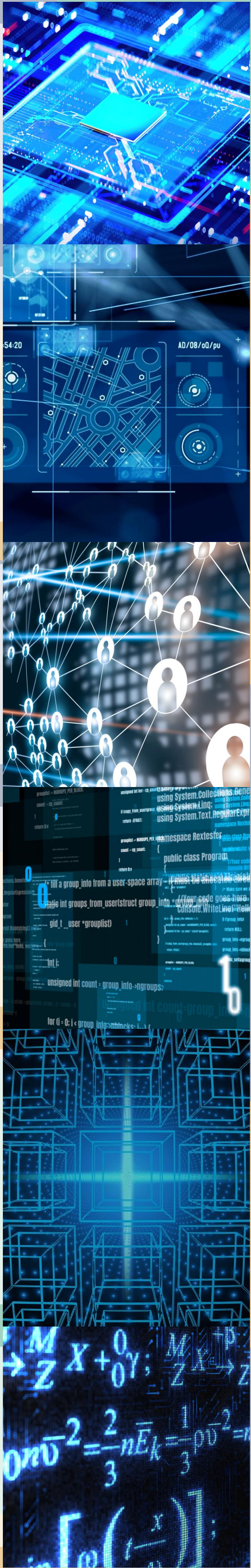
- DescribeC++14 reflection through simple annotation macros
- Mp11Easy and fast C++11 type metaprogramming
- HanaMetaprogramming with heterogeneous sequences
- PFRBasic reflection for user-defined types

## Math and Numerics

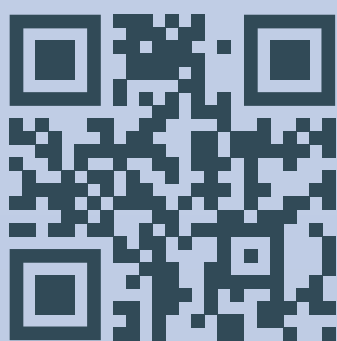
- MathSpecial functions, numerical algorithms and more
- GeometryGeometric algorithms, primitives and spatial index
- HistogramFast multi-dimensional histogram

## ...and more!

- 150+ libraries and growing
- BSL 1.0: the most permissive SW license in the market. No binary attribution required!
- Available for self installation and on your system package managers, vcpkg and Conan
- CMake support



We are working on a new website for Boost! Check it out at [preview.boost.org](http://preview.boost.org)



[www.boost.org](http://www.boost.org)

