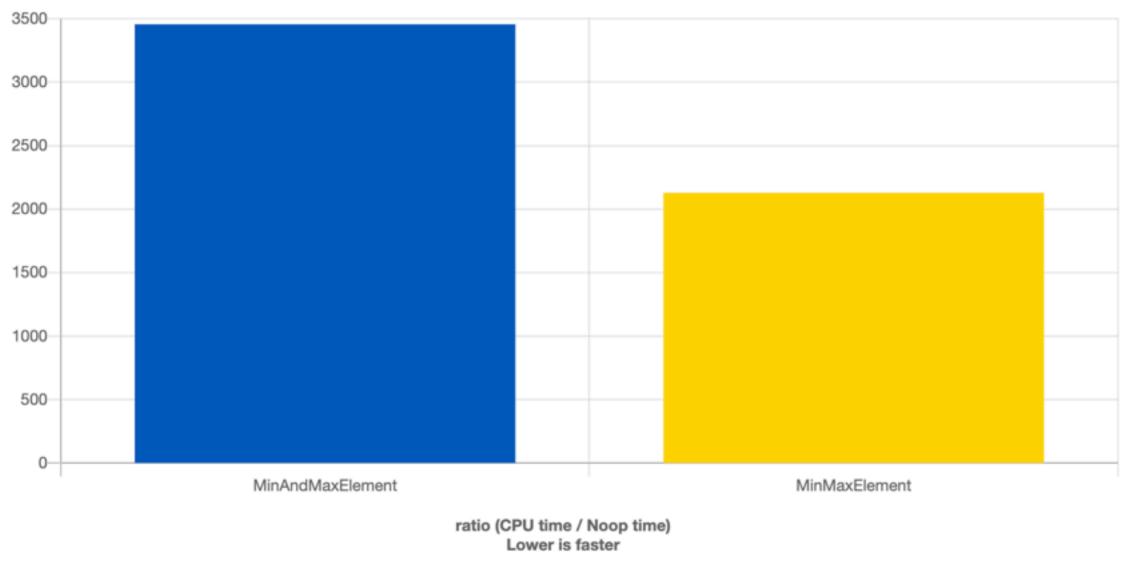
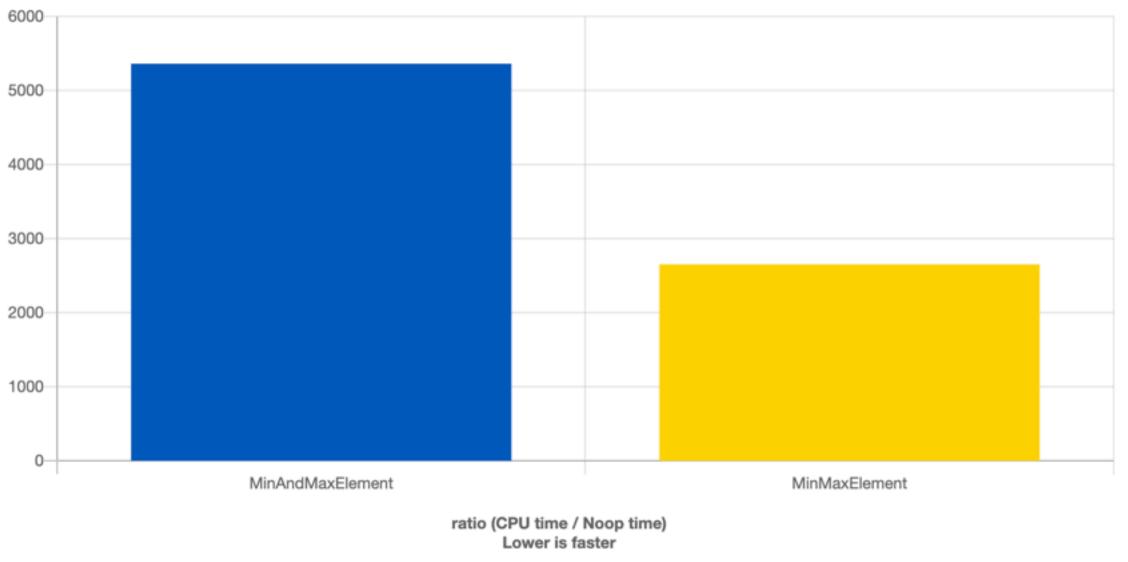
```
#include <algorithm>
const auto v = \{ 566, \dots \};
static void MinAndMaxElement(benchmark::State& state)
  for (auto : state)
    const auto min = std::min_element (begin(v), end(v));
    const auto max = std::max_element (begin(v), end(v));
    // Make sure the variable is not optimized away by compiler
    benchmark::DoNotOptimize(min);
    benchmark::DoNotOptimize(max);
// Register the function as a benchmark
BENCHMARK(MinAndMaxElement);
static void MinMaxElement(benchmark::State& state)
 for (auto : state)
    const auto [min, max] = std::minmax_element (begin(v), end(v));
    // Make sure the variable is not optimized away by compiler
    benchmark::DoNotOptimize(min);
    benchmark::DoNotOptimize(max);
// Register the function as a benchmark
BENCHMARK(MinMaxElement);
```

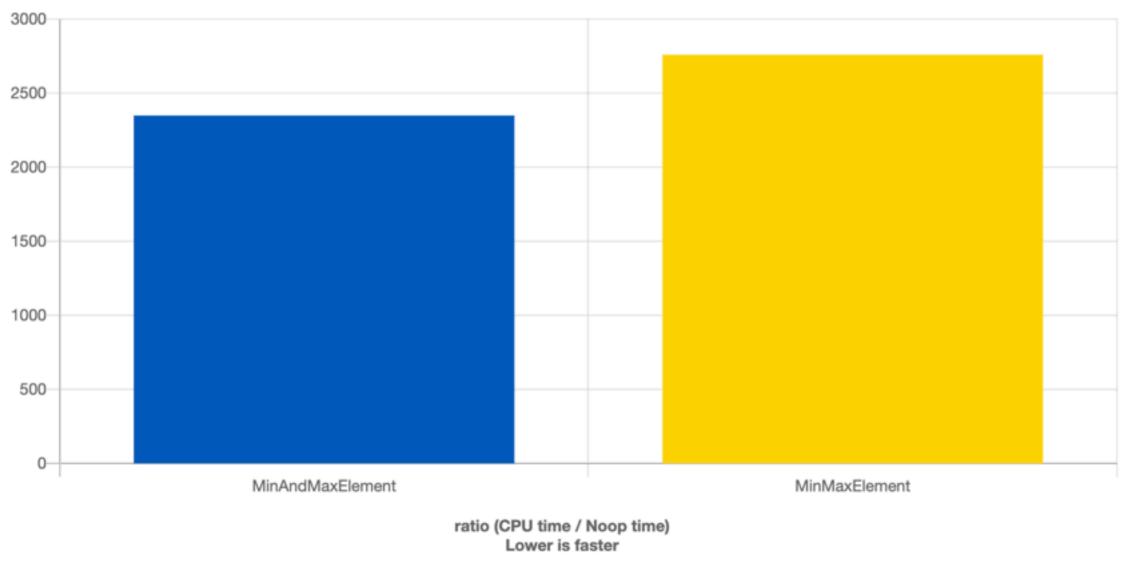


GCC 12.2/libstdc++



Clang 15/libstdc++

https://quick-bench.com/q/QnasARJ8vPBHjkdkCUpxW-4m5f0

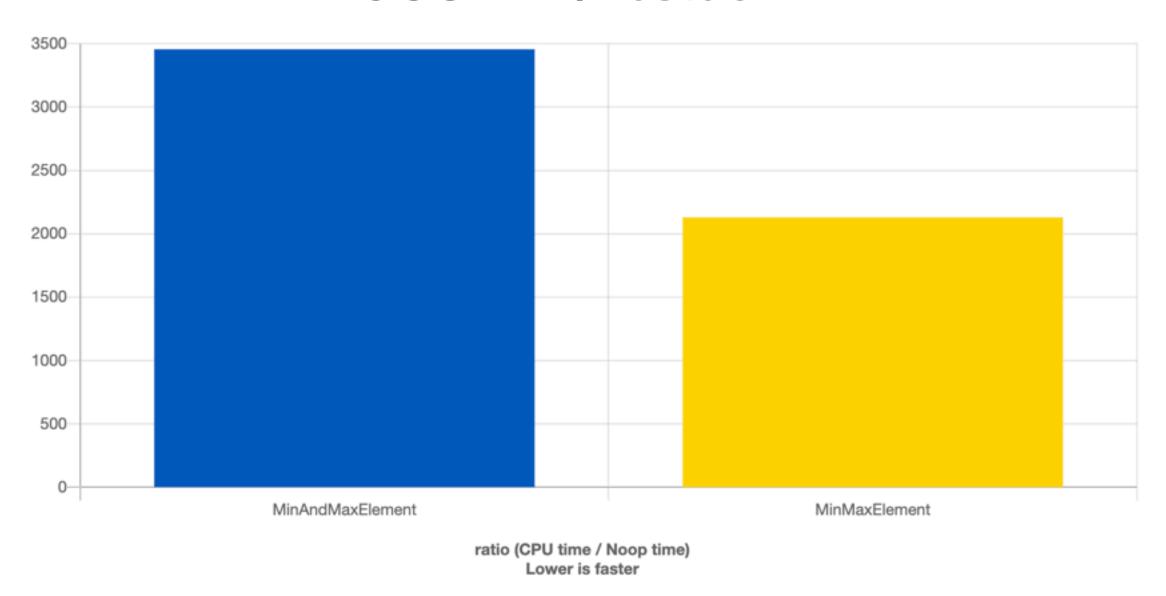


Clang 14/libc++

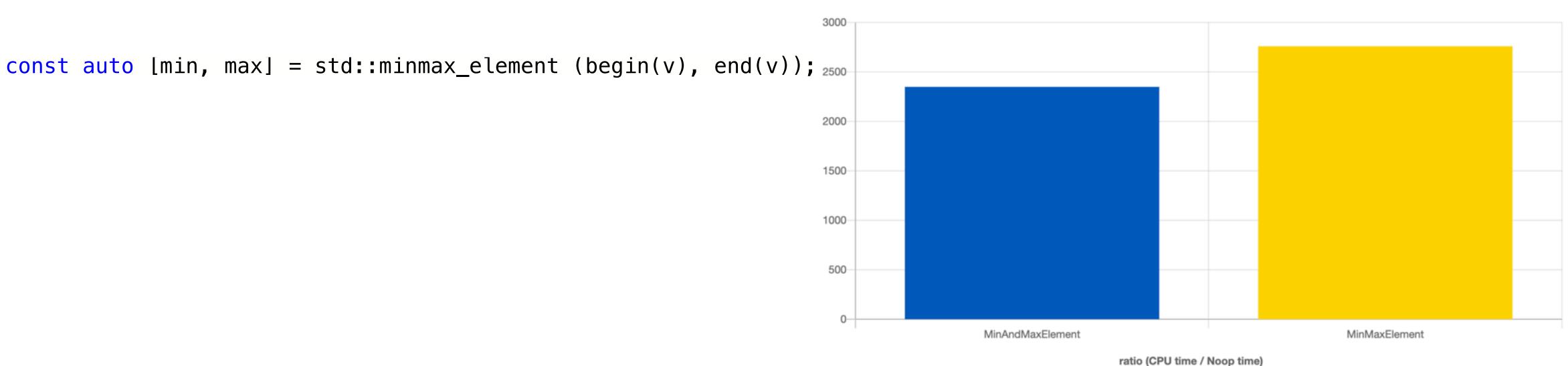
```
#include <algorithm>
const auto v = { 566, ... };

const auto min = std::min_element (begin(v), end(v));
const auto max = std::max_element (begin(v), end(v));
```

GCC 12.2/libstdc++



Clang 14/libc++



Lower is faster

Techniques for Optimisation

3. Reducing algorithmic complexity