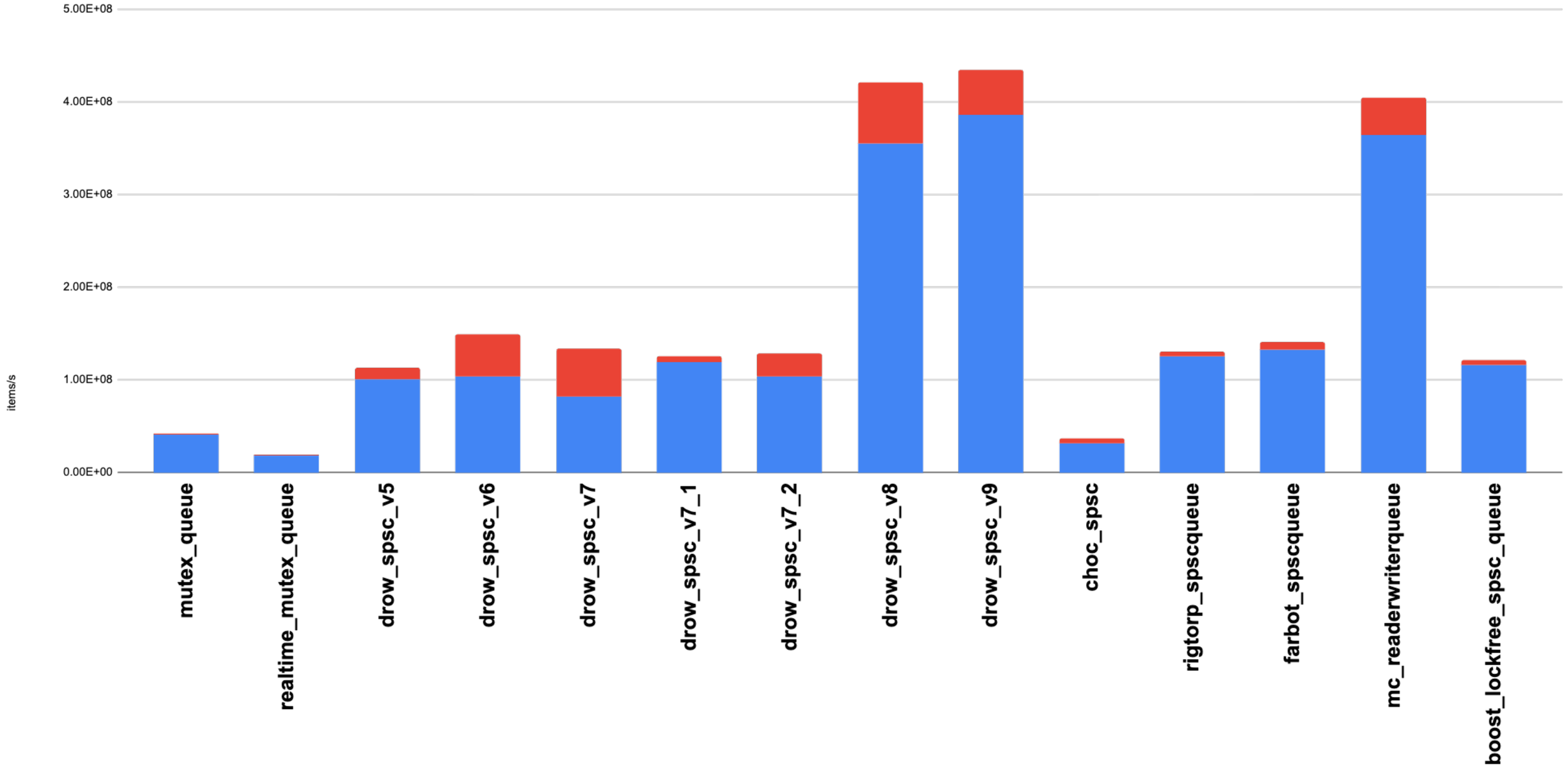
5.00E+08
4.00E+08
3.00E+08
2.00E+08
1.00E+08
0.00E+00
items/s
mutex_queue
realtime_mutex_queue
drow_spsc_v5
drow_spsc_v6
drow_spsc_v7
drow_spsc_v7_1
drow_spsc_v7_2
drow_spsc_v8
drow_spsc_v9
choc_spsc
rigtorp_spscqueue
farbot_spscqueue
mc_readerwriterqueue
boost_lockfree_spsc_queue


3.5x

5.00E+08
4.00E+08
3.00E+08
2.00E+08
1.00E+08
0.00E+00
3.5x
mutex_queue
realtime_mutex_queue
drow_spsc_v5
choc_spsc
rigtorp_spscqueue
farbot_spscqueue
mc_readerwriterqueue
boost_lockfree_spsc_queue

```cpp
template<typename T>
class drow_queue_v6
{
public:
    drow_queue_v6 (size_t capacity_)
        : capacity (std::bit_ceil (capacity_))
    {}

    bool try_push (const T&);
    bool try_pop (T&);

private:
    size_t capacity = 0;
    std::vector<T> data { std::vector<T> (capacity) };
    alignas(hardware_destructive_interference_size) std::atomic<size_t> head { 0 };
    alignas(hardware_destructive_interference_size) size_t cached_tail { 0 };
    alignas(hardware_destructive_interference_size) std::atomic<size_t> tail { 0 };
    alignas(hardware_destructive_interference_size) size_t cached_head { 0 };
};
```