Unique Lock Exercises

std::unique_lock

 What are the main differences between std::lock_guard and std::unique_lock?

Output Example using std::unique_lock

 Rewrite the program from the previous lecture to use std::unique_lock

std::unique_lock vs std::lock_guard

 We could also have avoided the problem with std::lock_guard by writing the code like this: for (int i = 0; i < 5; ++i) { // Put the std::lock_guard object in an inner scope std::lock_guard<std::mutex> lck_guard(task_mutex); // Critical section std::cout << str[0] << str[1] << str[2] << std::endl; // End of critical section } // Calls ~std::lock guard std::this thread::sleep for(50ms);

Is there any advantage to using std::unique_lock?

std::unique_lock vs std::lock_guard