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What does atomic mean in programming? Stack Overflow.

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Original URL: <https://tools.orientwatchusa.com/atomic-booty-after-dark.pdf>

Aug 13 2015 Objects of atomic types are the only C++ objects that are free from data races that is if one thread writes to an atomic object while another thread reads from it the behavior is well defined

In addition accesses to atomic objects may establish inter thread synchronization and order non atomic memory accesses as specified by std memory_order May 8 2015 In the Effective Java book it states The language specification guarantees that reading or writing a variable is atomic unless the variable is of type long or double [JLS 17.4.7]

What do May 1 2013 You need atomic<bool> to avoid race conditions. A race condition occurs if two threads access the same memory location and at least one of them is a write operation

If your program contains race conditions the behavior is undefined The atomic thing in shared_ptr is not the shared pointer itself but the control block it points to. meaning that as long as you don't mutate the shared_ptr across multiple threads you are ok

do note that copying a shared_ptr only mutates the control block and not the shared_ptr itself Jul 29 2013 There are two atomicCAS operations in C++11 atomic_compare_exchange_weak and atomic_compare_exchange_strong

According to cplusplus The weak forms of the functions are allowed to fail spurio Jun 4 2014 The definition of atomic is hazy a value that is atomic in one application could be non atomic in another. For a general guideline a value is non atomic if the application deals with only a part of the value

Eg The current Wikipedia article on First Normal Form section Atomicity actually quotes from the introductory parts above Feb 26 2009 The last two are identical atomic is the default behavior note that it is not actually a keyword it is specified only by the absence of non_atomic atomic was added as a keyword in recent versions of LLVM Clang

Assuming that you are synthesizing the method implementations atomic vs. non atomic changes the generated code

If you are writing your own setter getters atomic non_atomic Oct 20 2014 Why the standard make that difference? It seems as both designate in the same way an atomic type Jul 17 2025 Background I'm building a cross platform atomic abstraction layer to support 64 bit and 128 bit atomic operations for the following types int64_t uint64_t __int128 on Clang platforms A custom Jan 6 2012 std::atomic is new feature introduced by C++11 but I can't find much tutorial on how to use it correctly

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