#atomic heart porn# c++ What exactly is std atomic? Stack Overflow What does atomic mean in programming? Stack Overflow.

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

In addition accesses toatomicobjects may establish inter thread synchronization and order non atomicmemory 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 isatomicunless the variable is of type long or double [JLS 17.4.7]

What do Theatomic 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 twoatomicCAS operations in C++11 atomic_compare_exchange_weak andatomic_compare_exchange_strong

According to cppreference The weak forms of the functions are allowed to fail spurio May 1 2013 You needatomic<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 Jun 4 2014 The definition ofatomicis hazy a value that isatomicin one application could be non atomicin another. For a general guideline a value is non atomicif the application deals with only a part of the value

Eg The current Wikipedia article on First NF 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 nonatomic atomicwas added as a keyword in recent versions of llvm clang

Assuming that you are synthesizing the method implementations atomicvs. non atomicchanges the generated code

If you are writing your own setter getters atomic nonatomic Mar 27 2013 Can someone explain to me whats the difference betweenatomicoperations andatomictransactions? Its seems to me that these two are the same thing that correct? Oct 20 2014 Why the standard make that difference? It seems as both designate in the same way anatomictype Jul 17 2025 Background I m building a cross platformatomicabstraction layer to support 64 bit and 128 bitatomicoperations for the following types int64_t uint64_t __int128 on Clang platforms A custom.

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