

# atomic model by democritus

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## What does "atomic" mean in programming? - Stack Overflow

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...

## c++ - What exactly is std::atomic? - Stack Overflow

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.

## atomic operations and atomic transactions - Stack Overflow

Can someone explain to me, whats the difference between atomic operations and atomic transactions? It seems to me that these two are the same thing. Is that correct?

## c++ - How to implement an atomic counter - Stack Overflow

Fortunately, the value initializing constructor of an integral atomic is constexpr, so the above leads to constant initialization. Otherwise you'd want to make it -say- a static member of a class that is wrapping this and put the initialization somewhere else.

## What are atomic types in the C language? - Stack Overflow

I remember I came across certain types in the C language called atomic types, but we have never studied them. So, how do they differ from regular types like int, float, double, long etc., and what are...

## c++ - How to use std::atomic efficiently - Stack Overflow

std::atomic is new feature introduced by c++11 but I can't find much tutorial on how to use it correctly. So are the following practice common and efficient? One practice I used is we have a buff...

## Is there a difference between the \_Atomic type qualifier and type ...

Why the standard make that difference? It seems as both designate, in the same way, an atomic type.

## **sql - What is atomicity in dbms - Stack Overflow**

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 NF (Normal Form) section Atomicity actually quotes from the introductory parts above.

## **linux - Is rename () atomic? - Stack Overflow**

But rename() is still atomic in a very important sense: if you use it to overwrite a file, then you will end up with either the old or the new version and nothing else. [update: but as @jonas-wielicki points out in the comments, you need to make sure the file you are renaming actually has up-to-date contents, using fsync() and friends.]

## **In C#, what does "atomic" mean? - Stack Overflow**

I read this in the book C# 6.0 and the .NET 4.6 framework: "assignments and simple arithmetic operations are not atomic". So, what does it exactly mean?