

atomic design by brad frost

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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

I understand that `std::atomic<>` is an atomic object. But atomic to what extent? To my understanding an operation can be atomic. What exactly is meant by making an object atomic? For example if

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.

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...

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...

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.

c++ - Why does g++ still require -latomic - Stack Overflow

In 29.5 Atomic types of the C++ Standard November 2014 working draft it states: There is a generic class template `atomic`. The type of the template argument `T` shall be trivially copyable (3.9). [

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.]