

N1927

DR: Misleading Atomic library references to atomic types

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2015-04-12

Summary

The 7.17 atomic library section of the standard and the syntax for atomic types arose from different authors. The library section was adopted first and then amended when the syntax proposal was approved during the development of the C11 Standard. The syntax is constructive and applies, with a few exceptions, to all types, including floats and bitfields.

There are a few unfortunate phrasings remaining in the **7.17 Atomics <stdatomic.h>** section, however, that have caused a small degree of confusion and are worth fixing.

Suggested Technical Corrigendum

In **7.17.1 Introduction** p4 Replace

and several atomic analogs of integer types.

with

and atomic types declared with the `_Atomic` or `_Atomic()` construct.

In **7.17.1 Introduction** p5 replace

- An A refers to one of the atomic types.

with

- An A refers to an atomic type.

In **7.17.6 Atomic Integer Types** paragraph 2 replace

The semantics of the operations on these types are defined in 7.17.7

with

The semantics of the operations on atomic types are defined in 7.17.7