

N1908  
Proposal for DR453

Blaine Garst  
2014-11-11

DR453 points out the use of *true* and *false* in 7.17.8 when the flag is defined to only have two values representing the *set* and *clear* states. Unfortunately, the terms *set* and *clear* have ambiguous meanings. This proposal attempts to resolve the DR by make references to the state of *set* or *clear* more explicit.

### **Suggested Technical Corrigendum**

In **7.17.8 Atomic flag type and operation** paragraph 1 replace

It has two states, set and clear.

with

it has two states, **set** and **clear**.

In **7.17.8.1 The atomic\_flag\_test\_and\_set functions** paragraph 2 replace

Atomically, sets the value pointed to by **object** to true.

with

Atomically, sets the value pointed to by **object** to the **set** state if it was previously **clear**.

In **7.17.8.1 The atomic\_flag\_test\_and\_set functions** paragraph 3 replace

Atomically, the value of the object immediately before the effects.

with

Atomically, returns false if the value of the object had been **clear** before the effects, true otherwise.

In **7.17.8.2 The atomic\_flag\_clear function** paragraph 2, replace

Atomically sets the value pointed to by object to false.

with

Atomically clears the value pointed to by object to the **clear** state.