All Atomic Operations

This lesson lists all the useful atomic operations which are quite handy while working with concurrency in C++.

To get the full picture, here is a list of all atomic operations depending on the atomic type.

Method	atomic_f lag	atomic <b< th=""><th>atomic<t *=""></t></th><th>atomic<i ntegral=""></i></th><th>atomic<u ser defined></u </th></b<>	atomic <t *=""></t>	atomic <i ntegral=""></i>	atomic <u ser defined></u
test_and _set	yes	no	no	no	no
clear	yes	no	no	no	no
is_lock_ free	yes	no	no	no	no
load	no	yes	yes	yes	yes
store	no	yes	yes	yes	yes
exchange	no	yes	yes	yes	yes
compare_ exchange_ strong compare_ exchange_ weak	no	yes	yes	yes	yes

fetch_ad d, +=	no	no	yes	yes	no
<pre>fetch_su b, -=</pre>					
<pre>fetch_or , = fetch_an d, &= fetch_xo r, ^=</pre>	no	no	no	yes	no
++,	no	no	yes	yes	no