O Quick 68 Fix

Q





PHP

PL/I

PL/SQL

Python

**RPG** 

Ruby

Scala

Swift

Text

T-SQL

**VB.NET** 

VB6

XML

Terraform

**TypeScript** 



ΑII

rules

578

Objective C

with constructor arguments

🖷 Bug

Objects should not be sliced

📆 Bug

Immediately dangling references should not be created

📆 Bug

"pthread\_mutex\_t" should be unlocked in the reverse order they were locked

📆 Bug

"pthread\_mutex\_t" should be properly initialized and destroyed

📆 Bug

"pthread\_mutex\_t" should not be consecutively locked or unlocked



6 Vulnerability 13

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C++ code

**R** Bug (111)

• Security

Tags

Hotspot

"memset" sensitive o	should not be used to delet data
<b>6</b> Vulnera	ability
	nctions should not be called ments that trigger buffer
<b>6</b> Vulnera	ability
XML parse to XXE atta	ers should not be vulnerable acks
6 Vulnera	ability
	ike macros should not be ithout all of their arguments
👬 Bug	
should not object tha	ess of an automatic object t be assigned to another t may persist after the first s ceased to exist
🙀 Bug	
	to an optional should rget the optional
<table-of-contents> Bug</table-of-contents>	
	the standard remove s should not be ignored
🕕 Bug	
"ctd::coop	ed lock" should be created

```
"volatile" should not be used to
                                                   Analyze your code
qualify objects for which the
meaning is not defined
🙀 Bug 🛛 Oritical 🕝
volatile can be used to qualify many objects in C and C++, but only a few of the
possible places have a well-defined meaning (global variables and local variables for
instance). There is no well-defined meaning to the use of volatile to qualify a function
return type or a function parameter. Furthermore, for structured bindings, the volatile
qualifier appertains to the decomposed object which cannot be referred to. Since
C++20, these uses are deprecated, but even before you should not use volatile in
those places.
This rule raises an issue for a volatile qualified function return type, function
parameter, and structured binding (available in C++ since C++17).
Noncompliant Code Example
  int volatile f(int volatile i); // Noncompliant, both for the
  void g() {
    auto volatile [a, b] = getPair(); // Noncompliant
 sonarlint 😁 | sonarcloud 🟡 | sonarqube | Developer Edition
```

**⊗** Code (436)

Search by name...

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🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> Bug
A call to "wait()" on a  "std::condition_variable" should have a  condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
🖟 Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug