Secrets

ABAP

Apex

C

C++

CloudFormation

COBOL

C#

CSS

Flex

Go

HTML

Java

JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

Swift

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML

C++ static code analysis

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

| All rules 578 | 🔒 Vulnerability 13 | 🐛 Bug 111 | 🔓 Security Hotspot 18 | ⊘ Code Smell 436 | ⚡ Quick Fix 68 |

Tags ⌄   Search by name... 🔍

"memset" should not be used to delete sensitive data

🔒 Vulnerability

POSIX functions should not be called with arguments that trigger buffer overflows

🔒 Vulnerability

XML parsers should not be vulnerable to XXE attacks

🔒 Vulnerability

Function-like macros should not be invoked without all of their arguments

🐛 Bug

The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist

🐛 Bug

Assigning to an optional should directly target the optional

🐛 Bug

Result of the standard remove algorithms should not be ignored

🐛 Bug

"std::scoped_lock" should be created 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 twice

A for loop shall contain a single loop-counter which shall not have floating type

[Analyze your code]

⊘ Code Smell   ⊘ Minor   ⊘   🏷 misra-c++2008

This rule is a strict implementation of a MISRA (Motor Industry Software Reliability Association) rule. MISRA defines best practices for developing safety-critical software. You can learn more about this rule in the MISRA documents referenced below.

If you are not concerned with MISRA compliance or with safety-critical software, you might consider using rule {rule:cpp:S2193} instead ; it targets the same kind of issue for general-purpose software.

See

- MISRA C++ 2008, 6-5-1 - A for loop shall contain a single loop-counter which shall not have floating type.

Available In:

sonarlint 😶 | sonarcloud ☁ | sonarqube 🔷 Developer Edition

🐛 Bug

"std::move" and "std::forward" should not be confused

🐛 Bug

A call to "wait()" on a "std::condition_variable" should have a condition

🐛 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

🐛 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

🐛 Bug

Destructors should be "noexcept"

🐛 Bug