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## 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

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

Analyze your code

Bug Blocker cwe based-on-misra preprocessor

This is a constraint error, but preprocessors have been known to ignore this problem. Each argument in a function-like macro must consist of at least one preprocessing token otherwise the behaviour is undefined.

See

- MISRA C:2004, 19.8 - A function-like macro shall not be invoked without all of its arguments.
- [MITRE, CWE-628](#) - Function Call with Incorrectly Specified Arguments

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initialized and destroyed

 Bug

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

 Bug

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

 Bug

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