



Go =GO

5 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

o Security **⊗** Code (436) O Quick 68 Fix ΑII 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot 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

Immediately dangling references

"pthread_mutex_t" should be unlocked in the reverse order they were locked

"pthread_mutex_t" should be properly

"pthread_mutex_t" should not be consecutively locked or unlocked

initialized and destroyed

should not be created

📆 Bug

📆 Bug

📆 Bug

📆 Bug

Keywords shall not be used as Analyze your code macros identifiers based-on-misra unpredictable pitfall In programming languages keywords have a special meaning and are reserved to the language. It is hence a bad idea to define macros with keywords as macro identifier as it can easily lead to undefined behavior: • The same object might be defined differently in different places, which violates the One Definition Rule • If you include any header from the standard library, it is undefined behavior to define such macros Additionally, it is very awkward for anyone reading the code to have a keyword that means something different. **Noncompliant Code Example** #define int some_other_type // Noncompliant #include <stdlib.h>; See • MISRA C:2012, 20.4 - A macro shall not be defined with the same name as a keyword Available In: sonarlint ⊖ | sonarcloud む | sonarqube |

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Privacy Policy

I
🖟 Bug
"std::move" and "std::forward" should not be confused
∰ 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
ਜ਼ਿ 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
n Bug
Destructors should be "noexcept"
🖟 Bug