



=GO

Go HTML 5

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

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

"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

📆 Bug

📆 Bug

📆 Bug

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

Tags Search by name... Init-declarator-lists and memberdeclarator-lists should consist of Analyze your code single init-declarators and member-declarators respectively convention based-on-misra Code Quick Minor Smell cert Where multiple declarators appear in the same declaration the type of an identifier may not meet developer expectations. **Noncompliant Code Example** int i1; int j1; // Compliant, but not preferred int i2, *j2; // Noncompliant int *i3, &j3 = i2; // Noncompliant **Compliant Solution** int i1; int j1; int i2; int *j2; int *i3; int &j3 = i2;See • MISRA C++:2008, 8-0-1 - An init-declarator-list or a member-declarator-list shall consist of a single init-declarator or member-declarator respectively • CERT, DCL52-J. - Do not declare more than one variable per declaration • CERT, DCL04-C. - Do not declare more than one variable per declaration • C++ Core Guidelines - ES.10 - Declare one name (only) per declaration Available In: sonarlint 😊 | sonarcloud 🙆 | sonarqube | Developer Edition

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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