



C++

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COBOL

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Flex

Go =GO

HTML 5

Java

JavaScript

Kotlin

Kubernetes

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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) Quick 68 Fix ΑII 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot

Tags

"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

"pthread_mutex_t" should be properly

"pthread_mutex_t" should not be consecutively locked or unlocked

initialized and destroyed

📆 Bug

📆 Bug

Declarations of functions defined outside of the class should not be marked as "inline"

Analyze your code

Search by name...

It is a best practice in the public part of a class body, to describe only information relevant for reusers of this class, without implementation details like inline

clumsy

For inline member function defined outside of the class body, this rule verifies that inline is set on the definition and not on the declaration of the function.

Noncompliant Code Example

```
class Foo {
 public:
    inline void method(); // Noncompliant
};
void Foo::method() {
  // ...
}
```

Compliant Solution

```
class Foo {
    void method();
    // ...
inline void Foo::method() {
  // ...
```

See

• https://isocpp.org/wiki/faq/inline-functions#where-to-put-inline-keyword

Available In:

sonarlint 😔 | sonarcloud 🔂 | sonarqube γ

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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