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C++ static code analysis

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

All 578 6 Vulnerability (13) rules

R Bug (111)

o Security Hotspot

⊗ Code (436)

Quick 68 Fix

Tags

Search by name...

based-on-misra cert unused

"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 **Unused function parameters** should be removed

Analyze your code

the behavior will be the same. There are some cases when you want to have an unused parameter (usually because

Unused parameters are misleading. Whatever the values passed to such parameters,

the function has to conform to a fixed prototype, because it is virtual or it is going to be called from a template). In this case, and if the parameter is never used, an accepted practice is to leave it unnamed. If it is only sometimes used (for instance, depending on conditional compilation), you may, since C++17, use the [[maybe_unused]] attribute to be explicit about it.

```
void f([[maybe unused]] int i) {
  assert(i < 42); // In optimized mode, this assert will be r
```

In case of Objective-C it is acceptable to have unused parameters if the method is supposed to be overridden.

Noncompliant Code Example

```
void doSomething(int a, int b) { // Noncompliant, "b" is unus
  compute(a);
```

Compliant Solution

```
void doSomething(int a) {
  compute(a);
```

See

- MISRA C++:2008, 0-1-11 There shall be no unused parameters (named or unnamed) in nonvirtual functions.
- MISRA C:2012, 2.7 There should be no unused parameters in functions
- CERT, MSC12-C. Detect and remove code that has no effect or is never
- C++ Core Guidelines F.9 Unused parameters should be unnamed

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