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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 All 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot

Tags

☼ Code Smell ♥ Minor ②

"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

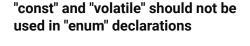
"pthread_mutex_t" should be unlocked in the reverse order they were locked

📆 Bug

"pthread_mutex_t" should be properly initialized and destroyed

📆 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked



Analyze your code

Search by name...

redundant since-c++11 clumsy

Since C++11, it's possible to declare the underlying type of an enum, and like any type deciration, enum declarations can contain the const or volatile specifier. But because enum values are named constants and cannot be re-assigned, those specifiers are ignored by the compiler, and are therefore useless.

This rule raises an issue if const or volatile is present in the declaration of the underlying type of an enum.

Noncompliant Code Example

```
enum class Color : const long int { // Noncompliant; Remove
 Red = 0xff0000,
 Green = 0x00ff00,
 Blue = 0x0000ff
};
enum class Size : volatile char { // Noncompliant; Remove th
 Small
         = 's',
 Big
         = 'b'
};
```

Compliant Solution

```
enum class Color : long int {
 Red = 0xff0000,
 Green = 0x00ff00,
  Blue = 0x0000ff
};
enum class Size : char {
  Small = 's',
         = 'b'
 Big
};
```

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