

- Secrets
- ABAP
- Apex
- С
- C++
- CloudFormation
- COBOL
- C#
- **CSS**
- Flex
- 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

ΑII 578 **6** Vulnerability 13 € rules

R Bug (111)

• Security Hotspot ⊗ Code (436)

Quick 68 Fix

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

📆 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 Condition-specific "catch" handlers should not be used after the ellipsis (catch-all) handler

Analyze your code

The catch-all handler should come last in a chain of catch or @catch statements because it catches everything, and any more-specific catch/@catch that comes after it will never be used, even when the relevant condition occurs.

unused misra-c++2008 🖣

This C++ code sample is very similar to the Objective-C equivalent with @try and @catch.

Noncompliant Code Example

🙀 Bug 🔷 Major 🕝

```
void f1()
  trv
  catch (...)
    // Handle all exception types
  catch (std::exception const &e) // Noncompliant - handler
  {
  }
```

Compliant Solution

```
void f1()
  try
  catch (std::exception const &e) // Compliant
    // Handle standard exceptions
  catch (...)
                     // Compliant catch-all handler
  {
    // Handle all other exception types
}
```

See

• MISRA C++:2008, 15-3-7 - Where multiple handlers are provided in a single trycatch statement or function-try-block, any ellipsis (catch-all) handler shall occur

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📆 Bug "std::move" and "std::forward" should not be confused 👬 Bug A call to "wait()" on a "std::condition_variable" should have a condition 📆 Bug A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast 📆 Bug Functions with "noreturn" attribute should not return 📆 Bug RAII objects should not be temporary 📆 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 📆 Bug Destructors should be "noexcept"

📆 Bug

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