



**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) O Quick 68 Fix ΑII 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot Tags Search by name... "memset" should not be used to delete All "if ... else if" constructs shall be sensitive data Analyze your code terminated with an "else "clause Vulnerability ☼ Code Smell ♥ Minor ② misra-c++2008 POSIX functions should not be called with arguments that trigger buffer overflows This rule is a strict implementation of a MISRA (Motor Industry Software Reliability

Association) rule. MISRA defines best practices for developing safety-critical software. You can learn more about this rule in the MISRA documents referenced below.

If you are not concerned with MISRA compliance or with safety-critical software, you might consider using rule ElselfWithoutElse instead; it targets the same kind of issue for general-purpose software.

See

• MISRA C++2008, 6-4-2

Available In:

sonarlint 😔 | sonarcloud 🖒 | sonarqube

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective

owners. All rights are expressly reserved.

**Privacy Policy** 

♠ 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

I
🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> 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
<b>ਜ਼ਿ</b> 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
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug