O Quick 14





Apex

C C

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VB.NET

VB6

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C static code analysis

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

Tags

ΑII 311 Security 18 6 Vulnerability (13) **₩** Bug (74) rules Hotspot

"memset" should not be used to delete sensitive data 6 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 "pthread_mutex_t" should be unlocked in the reverse order they were locked "pthread_mutex_t" should be properly initialized and destroyed # Bua "pthread_mutex_t" should not be consecutively locked or unlocked # Bug

Functions with "noreturn" attribute

"memcmp" should only be called with pointers to trivially copyable types

should not return

with no padding

₩ Bua

🖷 Bug

"for" loop counters should not have Analyze your code essentially floating type 👬 Bug 🕚 Minor 🕝 hased-on-misra cert When using a floating-point for loop counter, an accumulation of rounding errors may result in a mismatch between the expected and actual number of iterations. Even if floating-point loop counters appears to behave correctly on one implementation, it may give a different number of iterations on another implementation. Noncompliant Code Example for (float counter = 0.0f; counter < 1.0f; counter += 0.001f)</pre> } Compliant Solution for (int counter = 0; counter < 1000; ++counter) {</pre> See • MISRA C:2004, 13.4 - The controlling expression of a for statement shall not contain any objects of floating type. • MISRA C++:2008, 6-5-1 - A for loop shall contain a single loop-counter which shall not have floating type. • MISRA C:2012, 14.1 - A loop counter shall not have essentially floating type. • CERT, FLP30-C. - Do not use floating-point variables as loop counters Available In: sonarlint ⊖ sonarcloud ☆ sonarqube Develop

Search by name.

Smell

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Stack allocated memory and nonowned memory should not be freed

R
Bug

Closed resources should not be
accessed
Bug

Dynamically allocated memory should
be released
Bug

Freed memory should not be used