



© C++

CloudFormation

COBOL COBOL

C# C#

CSS

⊠ Flex

-co Go

5 HTML

🐇 Java

Js JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG RPG

Ruby

Scala

Swift

Terraform

■ Text

Ts TypeScript

T-SQL

VB VB.NET

VB6 VB6

XML XML



C static code analysis

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

Tags

"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

Bug

🖷 Bug

"atof", "atoi" and "atol" from Analyze your code <stdlib.h> should not be used 👬 Bug 🛛 Critical 🕝 hased-on-misra cert <stdlib.h>'s atof, atoi, and atol functions, which convert strings to numbers, have undefined behavior when the strings cannot be converted, and should therefore Noncompliant Code Example int converter (const char * numstr) { return atoi(numstr); // Noncompliant **Compliant Solution** int converter (const char * numstr) { return strtol(numstr, NULL, 10); See . MISRA C:2004, 20.10 - The library functions atof, atoi and atol from library <stdlib.h> shall not be used. MISRA C++:2008. 18-0-2 - The library functions atof, atoi and atol from library <cstdlib> shall not be used. • MISRA C:2012, 21.7 - The atof, atoi, atol and atoll functions of <stdlib.h> shall not he used • CERT, ERR34-C. - Detect errors when converting a string to a number Available In: sonarlint ⊕ | sonarcloud ♦ | sonarqube | Developer Edition

Search by name.

© 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

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