

PHP PL/I PL/SQL

Python

RPG Ruby

Scala

Swift

Terraform Text

TypeScript

T-SQL

VB.NET

VB6

XML



POSIX functions should not be called

Function-like macros should not be

The address of an automatic object

should not be assigned to another object that may persist after the first

Assigning to an optional should

Result of the standard remove

with constructor arguments

Objects should not be sliced

algorithms should not be ignored

"std::scoped_lock" should be created

directly target the optional

object has ceased to exist

invoked without all of their arguments

to XXE attacks

Vulnerability

₩ Bug

👬 Bug

Bug

👬 Bug

Bug

Bug

C++ static code analysis

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

⊗ Code O Quick Fix ΑII 578 Security 18 436 6 Vulnerability (13) **R** Bug (111) rules Hotspot Smell Tags Search by name. "memset" should not be used to delete Only standard forms of the sensitive data Analyze your code "defined" directive should be used 6 Vulnerability

with arguments that trigger buffer overflows The defined preprocessing directive is used in the context of #if and #elif ♠ Vulnerability expressions to see whether a given identifier has been defined as a macro. It returns a value of 0 (false) or 1 (true), and has two valid forms, defined IDENTIFIER and ${\tt defined}$ (${\tt IDENTIFIER}$). Since it is essentially a macro existence check, it XML parsers should not be vulnerable

cannot take expressions as arguments.

Note that since

#if defined AN_IDENTIFIER

is equivalent to

#ifdef AN_IDENTIFIER

defined is most useful when there are multiple arguments to check, E.G.

#if defined AAA || defined BBB

Noncompliant Code Example

#if defined (X > Y) // Noncompliant; expressions not allowe

based-on-misra bad-practice

Compliant Solution

#if defined X && defined Y && X > Y

- MISRA C:2004, 19.14 The defined preprocessor operator shall only be used in one of the two standard forms.
- MISRA C++:2008, 16-1-1 The defined preprocessor operator shall only be used in one of the two standard forms.

Available In:

Developer

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

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initialized and destroyed

in Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

in Bug

"std::move" and "std::forward" should not be confused

in Bug

A call to "wait()" on a "std::condition_variable" should have a