



ABAP

Apex Apex

C C

© C++

CloudFormation

COBOL COBOL

C# C#

E CSS

GO 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.NET

VB6 VB6

XML XML



sensitive data

6 Vulnerability

♠ Vulnerability

to XXE attacks

Vulnerability

₩ Bug

👬 Bug

Bug

Bua

Bug

₩ Bua

🖷 Bug

should not return

with no padding

overflows

C static code analysis

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

All 311 vulnerability 13

"memset" should not be used to delete

POSIX functions should not be called with arguments that trigger buffer

XML parsers should not be vulnerable

Function-like macros should not be

The address of an automatic object

object that may persist after the first

"pthread_mutex_t" should be unlocked

in the reverse order they were locked

"pthread_mutex_t" should be properly

"pthread_mutex_t" should not be consecutively locked or unlocked

Functions with "noreturn" attribute

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

initialized and destroyed

should not be assigned to another

object has ceased to exist

invoked without all of their arguments

∰ Bug **74**

Security Hotspot

Tags

⊗ Code 206 Smell

O Quick 14 Fix

18

Analyze your code

Search by name.

or with the "&" operator

Function names should be used

either as a call with a parameter list

based-on-misra suspicious

Using a "bald" function name is likely a bug. Rather than testing the return value of a function with a void parameter list, it implicitly retrieves the address of that function in memory. If that's truly what's intended, then it should be made explicit with the use of the & (address-of) operator. If it's not, then a parameter list (even an empty one) should be added after the function name.

Noncompliant Code Example

Compliant Solution

Exceptions

Callback functions are a common occurrence and are usually not passed with a preceding &. There is however little ambiguity so this rule ignores function identifiers when used as a parameter of a function call.

```
void foo() {
   // ...
}
registerEvent(AnEvent, foo);
```

See

- MISRA C:2004, 16.9 A function identifier shall only be used with either a
 preceding &, or with a parenthesized parameter list, which may be empty.
- MISRA C++:2008, 8-4-4 A function identifier shall only be used to call the

Stack allocated memory and nonowned memory should not be freed

Bug

Closed resources should not be
accessed

Bug

Dynamically allocated memory should
be released

Freed memory should not be used

👬 Bug

function or it shall be preceded by &.

Available In:

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