

- Secrets
- ABAP
- Apex
- C**
- C++
- CloudFormation
- COBOL
- C#
- CSS
- Flex
- Go
- HTML
- Java
- JavaScript
- Kotlin
- Kubernetes
- Objective C
- PHP
- PL/I
- PL/SQL
- Python
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- 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

All rules **311**

Vulnerability **13**

Bug **74**

Security Hotspot **18**

Code Smell **206**

Quick Fix **14**

Tags

Search by name...



"memset" should not be used to delete sensitive data

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

Bug

"pthread_mutex_t" should be properly initialized and destroyed

Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

Bug

Functions with "noreturn" attribute should not return

Bug

"memcpy" should only be called with pointers to trivially copyable types with no padding

Bug

Obsolete POSIX functions should not be used

Analyze your code

Code Smell Major obsolete cert

To ensure future code portability, obsolete POSIX functions should be removed. Those functions, with their replacements are listed below:

Obsolete	Use Instead
asctime	strftime
asctime_r	strftime
bcmp	memcmp
bcopy	memmove memcpy
bsd_signal	sigaction
bzero	memset
ctime	strftime
ecvt	sprintf
fcvt	sprintf
ftime	no replacement function
gcvt	sprintf
getcontext	Rewrite to use POSIX threads.
gethostbyaddr	getnameinfo
gethostbyname	getaddrinfo
getwd	getcwd
index	strchr
makecontext	Rewrite to use POSIX threads.
mktemp	mkstemp
pthread_attr_getstackaddr	pthread_attr_getstack
pthread_attr_setstackaddr	pthread_attr_setstack
rand_r	rand
rindex	strrchr
scalb	scalbln, 'scalblnf' or 'scalblnl' instead of this function
swapcontext	Rewrite to use POSIX threads.
ualarm	'timer_create', 'timer_delete', 'timer_getoverrun', 'timer_gettime', or 'timer_settime' instead of this function
usleep	'nanosleep' or 'setitimer' function
utime	utimensat
vfork	fork
wcswcs	wcsstr

Available In:

sonarlint

sonarcloud

sonarqube

Developer Edition

Stack allocated memory and non-owned memory should not be freed

 Bug

Closed resources should not be accessed

 Bug

Dynamically allocated memory should be released

 Bug

Freed memory should not be used