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RUSTSEC-2020-0072

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GenericMutexGuard allows data races of non-Sync types across threads

Reported October 31, 2020

Issued November 19, 2020 (last modified: October 19, 2021)

Package [futures-intrusive](#) ([crates.io](#))

Type INFO Unsound

Categories [memory-corruption](#)
[thread-safety](#)

Keywords [#concurrency](#)

Aliases [CVE-2020-35915](#)

Details <https://github.com/Matthias247/futures-intrusive/issues/53>

CVSS Score 5.5 MEDIUM

CVSS Details

Attack vector	Local
Attack complexity	Low
Privileges required	Low
User interaction	None
Scope	Unchanged
Confidentiality	None
Integrity	None
Availability	High

CVSS Vector [CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H](#)

Patched `>=0.4.0`

Description

`GenericMutexGuard<T>` was given the `Sync` auto trait as long as `T` is `Send` due to its contained members. However, since the guard is supposed to represent an **acquired lock** and allows concurrent access to the underlying data from different threads, it should only be `Sync` when the underlying data is.

This is a soundness issue and allows data races, potentially leading to crashes and segfaults from safe Rust code.

The flaw was corrected by adding a `T: Send + Sync` bound for `GenericMutexGuard`'s `Sync` trait.

This bug is [similar to one](#) in `std::sync::Mutex`.