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RUSTSEC-2020-0113

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AtomicOption should have Send + Sync bound on its type argument.

Reported October 31, 2020

Issued January 20, 2021 (last modified: October 19, 2021)

Package [atomic-option](#) ([crates.io](#))

Type Vulnerability

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

Aliases [CVE-2020-36219](#)

Details <https://github.com/reem/rust-atomic-option/issues/4>

CVSS Score 5.9 MEDIUM

CVSS Details

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

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

Patched no patched versions

Description

In the affected versions of this crate, `AtomicOption<T>` unconditionally implements `Sync`.

This allows programmers to move non-`Sync` types across thread boundaries (e.g. `Rc<T>`, `Arc<Cell<T>>`), which can lead to data races and undefined behavior. It is also possible to send non-`Send` types like `std::sync::MutexGuard` to other threads, which can lead to undefined behavior.