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RUSTSEC-2020-0094

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Unsound: can make `ARefss` contain a `!Send`, `!Sync` object.

Reported December 1, 2020

Issued January 6, 2021 (last modified: October 19, 2021)

Package [refers](#) ([crates.io](#))

Type INFO Unsound

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

Keywords [#concurrency](#)

Aliases [CVE-2020-36203](#)

Details <https://github.com/diwic/refers-rs/issues/7>

CVSS Score 4.7 MEDIUM

CVSS Details

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

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

Patched `>=0.6.1`

Description

`ARefss<'a, V>` is a type that is assumed to contain objects that are `Send + Sync`.

In the affected versions of this crate, `Send / Sync` traits are unconditionally implemented for `ARefss<'a, V>`.

By using the `ARefss::map()` API, we can insert a `!Send` or `!Sync` object into `ARefss<'a, V>`. After that, it is possible to create a data race to the inner object of `ARefss<'a, V>`, which can lead to undefined behavior & memory corruption.

The flaw was corrected in commit 6dd7ca0 (<https://github.com/diwic/refers-rs/commit/6dd7ca0d50f2464df708975cdafcfabeeb6d41c66>) by adding trait bound `V: Send + Sync` to `ARefss::map()` API.