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RUSTSEC-2020-0138

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ReaderResult should be bounded by Sync

Reported November 10, 2020

Issued January 30, 2021 (last modified: October 19, 2021)

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

Type Vulnerability

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

Aliases [CVE-2020-36458](#)

Details <https://gitlab.com/nathanfaucett/rs-lexer/-/issues/2>

CVSS Score 8.1 HIGH

CVSS Details

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

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

Patched no patched versions

Description

Affected versions of this crate implements `Sync` for `ReaderResult<T, E>` with the trait bound `T: Send, E: Send`.

Since matching on the public enum `ReaderResult<T, E>` provides access to `&T` & `&E`, allowing data race to a non-Sync type `T` or `E`. This can result in a memory corruption when multiple threads concurrently access `&T` or `&E`.

Suggested fix for the bug is change the trait bounds imposed on `T` & `E` to be `T: Sync, E: Sync`.