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RUSTSEC-2020-0137

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AtomicBox lacks bound on its Send and Sync traits allowing data races

Reported November 10, 2020

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

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

Type Vulnerability

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

Keywords [#concurrency](#)

Aliases [CVE-2020-36457](#)

Details <https://github.com/vertexclique/lever/issues/15>

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 [>=0.1.1](#)

Description

`AtomicBox<T>` is a `Box` type designed to be used across threads, however, it implements the `Send` and `Sync` traits for all types `T`. This allows non-Send types such as `Rc` and non-Sync types such as `Cell` to be used across thread boundaries which can trigger undefined behavior and memory corruption.