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RUSTSEC-2020-0140

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Shared can cause a data race

Reported November 10, 2020

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

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

Type INFO Unsound

Categories [thread-safety](#)

Aliases [CVE-2020-36460](#)

Details <https://github.com/spacejam/model/issues/3>

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

`Shared` data structure in `model` crate implements `Send` and `Sync` traits regardless of the inner type. This allows safe Rust code to trigger a data race, which is undefined behavior in Rust.

Users are advised to treat `Shared` as an unsafe type. It should not be used outside of the testing context, and care must be taken so that the testing code does not have a data race besides a race condition that is expected to be caught by the test.

Check [the Rustonomicon](#) for the difference between a data race and a general race condition.