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RUSTSEC-2020-0136

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CopyCell lacks bounds on its Send trait allowing for data races

Reported November 15, 2020

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

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

Type Vulnerability

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

Keywords [#concurrency](#)

Aliases [CVE-2020-36456](#)

Details <https://github.com/ratel-rust/toolshed/issues/12>

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

`CopyCell<T>` is a `Cell`-like type that is implemented for any type `T` that is `Copy` able. It's `Send` trait has no bounds on the contained type.

As not all `Copy` able types are thread safe, for example non-mutable references implement the `Copy` trait, it is possible to send references to types with interior mutability such as `cell` across threads and cause data races.