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RUSTSEC-2020-0151

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Generators can cause data races if non-Send types are used in their generator functions

Reported November 16, 2020

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

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

Type Vulnerability

Categories [memory-corruption](#)

Keywords [#concurrency](#)

Aliases [CVE-2020-36471](#)

Details <https://github.com/Xudong-Huang/generator-rs/issues/27>

CVSS Score 5.9 MEDIUM

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

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

Patched [>=0.7.0](#)

Description

The `Generator` type is an iterable which uses a generator function that yields values. In affected versions of the crate, the provided function yielding values had no `Send` bounds despite the `Generator` itself implementing `Send`.

The generator function lacking a `Send` bound means that types that are dangerous to send across threads such as `Rc` could be sent as part of a generator, potentially leading to data races.

This flaw was fixed in commit [f7d120a3b](#) by enforcing that the generator function be bound by `Send`.