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RUSTSEC-2020-0088

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MPMCConsumer/Producer allows sending non-Send type across threads

Reported November 29, 2020
Issued December 7, 2020 (last modified: October 19, 2021)
Package [magnetic](#) ([crates.io](#))
Type Vulnerability
Categories [thread-safety](#)
Aliases [CVE-2020-35925](#)

Details <https://github.com/johnshaw/magnetic/issues/9>

CVSS Score 5.5 MEDIUM

CVSS Details

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

CVSS Vector CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

Patched `>=2.0.1`

Description

Affected versions of this crate unconditionally implemented `Sync` and `Send` traits for `MPMCConsumer` and `MPMCPProducer` types.

This allows users to send types that do not implement `Send` trait across thread boundaries, which can cause a data race.

The flaw was corrected in the 2.0.1 release by adding `T: Send` bound to affected `Sync/Send` trait implementations.