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RUSTSEC-2020-0142

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Send bound needed on T (for Send impl of `Bucket2`)

Reported November 29, 2020

Issued February 2, 2021 (last modified: October 19, 2021)

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

Type Vulnerability

Categories [memory-corruption](#)

Aliases [CVE-2020-36462](#)

Details https://github.com/Chopinsky/byte_buffer/issues/2

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 [>=0.1.6](#)

Description

Affected versions of this crate unconditionally implements `Send` for `Bucket2` . This allows sending non-`Send` types to other threads.

This can lead to data races when non `Send` types like `Cell<T>` or `Rc<T>` are contained inside `Bucket2` and sent across thread boundaries. The data races can potentially lead to memory corruption (as demonstrated in the PoC from the original report issue).

The flaw was corrected in commit 15b2828 by adding a `T: Send` bound to the `Send` impl of `Bucket2<T>` .