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RUSTSEC-2020-0128

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Cache: Send/Sync impls needs trait bounds on `K`

Reported November 24, 2020

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

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

Type Vulnerability

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

Aliases [CVE-2020-36448](#)

Details <https://github.com/krl/cache/issues/1>

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

Affected versions of this crate unconditionally implement `Send/Sync` for `Cache<K>`. This allows users to insert `K` that is not `Send` or not `Sync`.

This allows users to create data races by using non-`Send` types like `Arc<Cell<T>>` or `Rc<T>` as `K` in `Cache<K>`. It is also possible to create data races by using types like `Cell<T>` or `RefCell<T>` (types that are `Send` but not `Sync`). Such data races can lead to memory corruption.