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RUSTSEC-2020-0141 $\mathsf{History} \cdot \mathsf{Edit}$

MvccRwLock allows data races & aliasing violations

Reported

Issued

Package noise_search (crates.io

Туре

Categories memory-corruption

thread-safety

Aliases CVE-2020-36461

Details https://github.com/pipedown/noise/issues/72

CVSS Score

CVSS Details

Attack vector

Attack complexity High Privileges required None User interaction Scope

Confidentiality

Integrity Availability

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

Patched

Description

Affected versions of this crate unconditionally implement Send/Sync for MYCCRWLOCK . This can lead to data races when types that are either !Send or !Sync (e.g. Ro<T> , Arc<Cell<_>>) are contained inside MvccRwLock and sent across thread boundaries. The data races can

Also, safe APIs of MvccRwLock allow aliasing violations by allowing &T and LockResult<MutexGuard<Box<T>>> to co-exist in conflicting lifetime regions. The APIs of MyccrwLock should either be marked as unsafe or MbccrwLock should be changed to private or pub(crate).