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## RUSTSEC-2020-0149

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Data race and memory safety issue in [Index](#)

**Reported** November 15, 2020

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

**Package** [appendix](#) ([crates.io](#))

**Type** Vulnerability

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

**Aliases** [CVE-2020-36469](#)

**Details** <https://github.com/krl/appendix/issues/6>

**CVSS Score** 5.9 MEDIUM

### CVSS Details

<b>Attack vector</b>	Network
<b>Attack complexity</b>	High
<b>Privileges required</b>	None
<b>User interaction</b>	None
<b>Scope</b>	Unchanged
<b>Confidentiality</b>	None
<b>Integrity</b>	None
<b>Availability</b>	High

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

**Patched** no patched versions

### Description

The `appendix` crate implements a key-value mapping data structure called `Index<K, V>` that is stored on disk. The crate allows for any type to inhabit the generic `K` and `V` type parameters and implements `Send` and `Sync` for them unconditionally.

Using a type that is not marked as `Send` or `Sync` with `Index` can allow it to be used across multiple threads leading to data races.

Additionally using reference types for the keys or values will lead to the segmentation faults in the crate's code.