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RUSTSEC-2020-0023

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Lifetime boundary for `raw_slice` and `raw_slice_mut` are incorrect

Reported February 11, 2020

Issued October 2, 2020 (last modified: October 19, 2021)

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

Type Vulnerability

Aliases [CVE-2020-35879](#)

Details <https://github.com/AtheMathmo/rulinalg/issues/201>

CVSS Score 9.8 CRITICAL

CVSS Details

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

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

Patched no patched versions

Unaffected `<0.4.0`

Affected Functions	Version
<code>rulinalg::matrix::RowMut::raw_slice</code>	<code>>=0.4.0</code>
<code>rulinalg::matrix::RowMut::raw_slice_mut</code>	<code>>=0.4.0</code>

Description

The affected version of `rulinalg` has incorrect lifetime boundary definitions for `RowMut::raw_slice` and `RowMut::raw_slice_mut`. They do not conform with Rust's borrowing rule and allows the user to create multiple mutable references to the same location. This may result in unexpected calculation result and data race if both references are used at the same time.