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RUSTSEC-2021-0048

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StackVec::extend can write out of bounds when size_hint is incorrect

Reported February 19, 2021

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

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

Type Vulnerability

Categories [memory-corruption](#)

Aliases [CVE-2021-29939](#)

Details <https://github.com/Alexhuszagh/rust-stackvector/issues/2>

CVSS Score 7.3 HIGH

CVSS Details

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

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

Patched [>=1.0.9](#)

Description

`StackVec::extend` used the lower and upper bounds from an Iterator's `size_hint` to determine how many items to push into the stack based vector.

If the `size_hint` implementation returned a lower bound that was larger than the upper bound, `StackVec` would write out of bounds and overwrite memory on the stack. As mentioned by the [size_hint](#) documentation, `size_hint` is mainly for optimization and incorrect implementations should not lead to memory safety issues.