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RUSTSEC-2020-0038

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Memory safety issues in `compact::Vec`

Reported September 3, 2020

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

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

Type Vulnerability

Aliases [CVE-2020-35890](#)
[CVE-2020-35891](#)

Details <https://github.com/maciejhirs/ordnung/issues/8>

CVSS Score 7.5 HIGH

CVSS Details

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

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

Patched no patched versions

Description

`compact::Vec` contains multiple memory safety issues.

1. It mishandles large capacity and causes out-of-bound access in 32-bit / allocator layout mismatch in 64-bit.
2. `remove()` is not panic-safe and causes double-free when an index larger than the length is provided.