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RUSTSEC-2021-0046

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`misc::vec_with_size()` can drop uninitialized memory if clone panics

Reported February 17, 2021

Issued March 29, 2021 (last modified: October 19, 2021)

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

Type Vulnerability

Categories [memory-corruption](#)

Keywords [#memory-safety](#)

Aliases [CVE-2021-29937](#)

Details <https://github.com/Yoric/telemetry.rs/issues/45>

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

Description

`misc::vec_with_size` creates a vector of the provided `size` and immediately calls `vec.set_len(size)` on it, initially filling it with uninitialized memory. It then inserts elements using `vec[i] = value.clone()`.

If the `value.clone()` call panics, uninitialized items in the vector will be dropped leading to undefined behavior.