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RUSTSEC-2020-0103

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`impl Random` on arrays can lead to dropping uninitialized memory

Reported December 31, 2020

Issued January 20, 2021 (last modified: October 19, 2021)

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

Type Vulnerability

Categories [memory-corruption](#)

Aliases [CVE-2020-36210](#)

Details <https://github.com/mersinvald/autorand-rs/issues/5>

CVSS Score 7.8 HIGH

CVSS Details

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

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

Patched `>=0.2.3`

Description

Affected versions of this crate had a panic safety issue to drop partially uninitialized array of `T` upon panic in a user provided function `T::random()`. Dropping uninitialized `T` can potentially cause memory corruption or undefined behavior.

The flaw was corrected in commit 565d508 by using `MaybeUninit<T>` to avoid possible dropping of uninitialized memory upon panic.