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RUSTSEC-2021-0045

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FromIterator implementation for Vector/Matrix can drop uninitialized memory

Reported January 11, 2021

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

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

Type Vulnerability

Categories [memory-corruption](#)

Keywords [#memory-safety](#)

Aliases [CVE-2021-29936](#)

Details <https://github.com/charles-r-earp/adtensor/issues/4>

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

The `FromIterator<T>` methods for `Vector` and `Matrix` rely on the type parameter `N` to allocate space in the iterable.

If the passed in `n` type parameter is larger than the number of items returned by the iterator, it can lead to uninitialized memory being left in the `Vector` or `Matrix` type which gets dropped.