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## RUSTSEC-2021-0049 $\mathsf{History} \cdot \mathsf{Edit}$

through and through\_and causes a double free if the map function panics

Reported

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

Package through (crates.io

Туре

Categories memory-corruption

#memory-safety #double-free Keywords

Aliases CVE-2021-29940

Details https://github.com/gretchenfrage/through/issues/1

CVSS Score

CVSS Details

Attack vector

Attack complexity Privileges required None User interaction

Confidentiality Integrity Availability

CVSS Vector CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

Patched

Scope

## Description

through and through\_and take a mutable reference as well as a mapping function to change the provided reference. They do this by calling ptr::read on the reference which duplicates ownership and then calling the mapping function.

If the mapping function panics, both the original object and the one duplicated by ptr::read get dropped, causing a double free.