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RUSTSEC-2020-0061 $\mathsf{History} \cdot \mathsf{Edit}$

futures_task::noop_waker_ref can segfault due to dereferencing a NULL pointer

Reported May 3, 2020

Issued

Package futures-task (crates.io)

Туре

denial-of-service Categories

#NULL-pointer-dereference #memory-management Keywords

Aliases CVE-2020-35907

Details https://github.com/rust-lang/futures-rs/issues/2091

CVSS Score

CVSS Details

Attack vector

Attack complexity Low

Privileges required Low

User interaction

Scope

Confidentiality

Integrity

Availability

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

Patched >=0.3.5

Affected Functions futures_task::noop_waker_ref >=0.3.0

Description

Affected versions of the crate used a Unsafecell in thread-local storage to return a noop waker reference, assuming that the reference

This resulted in a segmentation fault crash if waker::wake_by_ref() was called on a waker returned from another thread due to it

The flaw was corrected by using a OnceCell::Lazy<> wrapper around the noop waker instead of thread-local storage.