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RUSTSEC-2020-0060

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`futures_task::waker` may cause a use-after-free if used on a type that isn't 'static

Reported September 4, 2020

Issued October 31, 2020 (last modified: October 19, 2021)

Package [futures-task](#) ([crates.io](#))

Type Vulnerability

Categories [code-execution](#)
[memory-corruption](#)

Keywords [#use-after-free](#) [#arbitrary-code-execution](#) [#memory-corruption](#) [#memory-management](#)

Aliases [CVE-2020-35906](#)

Details <https://github.com/rust-lang/futures-rs/pull/2206>

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 [>=0.3.6](#)

Unaffected [<=0.2.1](#)

Affected Functions [Version](#)

`futures_task::waker` [>=0.3.0](#)

Description

Affected versions of the crate did not properly implement a 'static lifetime bound on the `waker` function. This resulted in a use-after-free if `Waker::wake()` is called after original data had been dropped.

The flaw was corrected by adding 'static lifetime bound to the data `waker` takes.