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RUSTSEC-2021-0072

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Task dropped in wrong thread when aborting `LocalSet` task

Reported July 7, 2021

Issued July 7, 2021 (last modified: November 6, 2021)

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

Type Vulnerability

Categories [memory-corruption](#)

Keywords [#race-condition](#) [#send](#)

Aliases [CVE-2021-38191](#)

Details <https://github.com/tokio-rs/tokio/issues/3929>

Patched

<code>>=1.5.1, <1.6.0</code>
<code>>=1.6.3, <1.7.0</code>
<code>>=1.7.2, <1.8.0</code>
<code>>=1.8.1</code>

Unaffected `<0.3.0`

Affected Functions	Version
<code>tokio::task::JoinHandle::abort</code>	<code><=1.8.0, >=0.3.0</code>

Description

When aborting a task with `JoinHandle::abort`, the future is dropped in the thread calling abort if the task is not currently being executed. This is incorrect for tasks spawned on a `LocalSet`.

This can easily result in race conditions as many projects use `Rc` or `RefCell` in their Tokio tasks for better performance.

See [tokio#3929](#) for more details.