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RUSTSEC-2020-0101

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conquer-once's OnceCell lacks Send bound for its Sync trait.

Reported	December 22, 2020																
Issued	January 20, 2021 (last modified: October 19, 2021)																
Package	conquer-once (crates.io)																
Type	Vulnerability																
Categories	memory-corruption thread-safety																
Keywords	#concurrency																
Aliases	CVE-2020-36208																
Details	https://github.com/oliver-giersch/conquer-once/issues/3																
CVSS Score	7.8 HIGH																
CVSS Details	<table><tr><td>Attack vector</td><td>Local</td></tr><tr><td>Attack complexity</td><td>Low</td></tr><tr><td>Privileges required</td><td>Low</td></tr><tr><td>User interaction</td><td>None</td></tr><tr><td>Scope</td><td>Unchanged</td></tr><tr><td>Confidentiality</td><td>High</td></tr><tr><td>Integrity</td><td>High</td></tr><tr><td>Availability</td><td>High</td></tr></table>	Attack vector	Local	Attack complexity	Low	Privileges required	Low	User interaction	None	Scope	Unchanged	Confidentiality	High	Integrity	High	Availability	High
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	>=0.3.2																

Description

Affected versions of `conquer-once` implements `Sync` for its `OnceCell` type without restricting it to `Send` able types.

This allows non- `Send` but `Sync` types such as `MutexGuard` to be sent across threads leading to undefined behavior and memory corruption in concurrent programs.

The issue was fixed by adding a `Send` constraint to `OnceCell`.