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RUSTSEC-2020-0106

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Queues allow non-Send types to be sent to other threads, allowing data races

Reported	December 19, 2020																
Issued	January 20, 2021 (last modified: October 19, 2021)																
Package	multiqueue2 (crates.io)																
Type	INFO Unsound																
Categories	memory-corruption thread-safety																
Aliases	CVE-2020-36214																
Details	https://github.com/abychau/multiqueue2/issues/10																
CVSS Score	5.9 MEDIUM																
CVSS Details	<table><tr><td>Attack vector</td><td>Network</td></tr><tr><td>Attack complexity</td><td>High</td></tr><tr><td>Privileges required</td><td>None</td></tr><tr><td>User interaction</td><td>None</td></tr><tr><td>Scope</td><td>Unchanged</td></tr><tr><td>Confidentiality</td><td>None</td></tr><tr><td>Integrity</td><td>None</td></tr><tr><td>Availability</td><td>High</td></tr></table>	Attack vector	Network	Attack complexity	High	Privileges required	None	User interaction	None	Scope	Unchanged	Confidentiality	None	Integrity	None	Availability	High
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Availability	High																
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H																
Patched	>=0.1.7																

Description

Affected versions of this crate unconditionally implemented `Send` for types used in queue implementations (`InnerSend<RW, T>` , `InnerRecv<RW, T>` , `FutInnerSend<RW, T>` , `FutInnerRecv<RW, T>`).

This allows users to send non-Send types to other threads, which can lead to data race bugs or other undefined behavior.

The flaw was corrected in v0.1.7 by adding `T: Send` bound to to the `Send` impl of four data types explained above.