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RUSTSEC-2020-0150

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RingBuffer can create multiple mutable references and cause data races

Reported	December 17, 2020																
Issued	March 30, 2021 (last modified: February 21, 2022)																
Package	disrustor (crates.io)																
Type	Vulnerability																
Categories	memory-corruption thread-safety																
Aliases	CVE-2020-36470																
Details	https://github.com/sklose/disrustor/issues/1																
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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Scope	Unchanged																
Confidentiality	None																
Integrity	None																
Availability	High																
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H																
Patched	>=0.3																

Description

The `RingBuffer` type retrieves mutable references from the `DataProvider` in a non-atomic manner, potentially allowing the creation of multiple mutable references. `RingBuffer` also implements the `Send` and `Sync` traits for all types `T`.

This allows undefined behavior from the aliased mutable references as well as data races.