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RUSTSEC-2020-0130

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Bunch unconditionally implements Send/Sync

Reported	November 12, 2020																
Issued	January 30, 2021 (last modified: October 19, 2021)																
Package	bunch (crates.io)																
Type	Vulnerability																
Categories	memory-corruption thread-safety																
Aliases	CVE-2020-36450																
Details	https://github.com/krl/bunch/issues/1																
CVSS Score	8.1 HIGH																
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>High</td></tr><tr><td>Integrity</td><td>High</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	High	Integrity	High	Availability	High
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Availability	High																
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H																
Patched	no patched versions																

Description

Affected versions of this crate unconditionally implements `Send` / `Sync` for `Bunch<T>`. This allows users to insert `T: !Sync` to `Bunch<T>`. It is possible to create a data race to a `T: !Sync` by invoking the `Bunch::get()` API (which returns `&T`) from multiple threads. It is also possible to send `T: !Send` to other threads by inserting `T` inside `Bunch<T>` and sending `Bunch<T>` to another thread, allowing to create a data race by inserting types like `T = Rc<_>`.

Such data races can lead to memory corruption.