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RUSTSEC-2020-0052

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## Undefined Behavior in bounded channel

Reported	June 26, 2020
Issued	October 11, 2020 (last modified: January 4, 2021)
Package	<a href="#">crossbeam-channel</a> ( <a href="#">crates.io</a> )
Type	Vulnerability
Categories	<a href="#">memory-corruption</a>
Aliases	<a href="#">CVE-2020-35904</a> <a href="#">CVE-2020-15254</a> <a href="#">GHSA-v5m7-53cv-f3hx</a>
Details	<a href="https://github.com/crossbeam-rs/crossbeam/pull/533">https://github.com/crossbeam-rs/crossbeam/pull/533</a>
Patched	<code>&gt;=0.4.4</code>
Unaffected	<code>&lt;0.4.3</code>

### Description

The affected version of this crate's the `bounded` channel incorrectly assumes that `Vec::from_iter` has allocated capacity that same as the number of iterator elements. `Vec::from_iter` does not actually guarantee that and may allocate extra memory. The destructor of the `bounded` channel reconstructs `Vec` from the raw pointer based on the incorrect assumes described above. This is unsound and causing deallocation with the incorrect capacity when `Vec::from_iter` has allocated different sizes with the number of iterator elements.