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RUSTSEC-2020-0145

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Use-after-free when cloning a partially consumed `Vec` iterator

Reported November 2, 2020

Issued February 27, 2021 (last modified: October 19, 2021)

Package [heapless](#) ([crates.io](#))

Type INFO Unsound

Categories [memory-corruption](#)
[memory-exposure](#)

Keywords [#use-after-free](#)

Aliases [CVE-2020-36464](#)

Details <https://github.com/japaric/heapless/issues/181>

CVSS Score 7.5 HIGH

CVSS Details

Attack vector	Network
Attack complexity	Low
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	None
Integrity	None
Availability	High

CVSS Vector [CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H](#)

Patched `>=0.6.1`

Affected Functions Version

`heapless::vec::IntoIter::clone` `<=0.6`

Description

The `IntoIter clone` implementation clones the whole underlying `Vec`. If the iterator is partially consumed the consumed items will be copied, thus creating a use-after-free access.

A proof of concept is available in the original bug report.