RUSTSEC-2020-0050

VecCopy allows misaligned access to elements

Reported	September 27, 2020
Issued	October 2, 2020 (last modified: October 19, 2021)
Package	dync (crates.io)
Type	INFO Unsound
Aliases	CVE-2020-35903
Details	https://github.com/elrnv/dync/issues/4
CVSS Score	5.5 MEDIUM

CVSS Details

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

CVSS Vector	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H
Patched	`>=0.5.0`

Description

`VecCopy::data` is created as a Vec of u8 but can be used to store and retrieve elements of different types leading to misaligned access.

The issue was resolved in v0.5.0 by replacing data being stored by `Vec<u8>` with a custom managed pointer. Elements are now stored and retrieved using types with proper alignment corresponding to original types.