



CVE-2015-20001

Published on: 04/11/2021 12:00:00 AM UTC

Last Modified on: 04/22/2021 02:54:00 PM UTC

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Rust](#) from [Rust-lang](#) contain the following vulnerability:

In the standard library in Rust before 1.2.0, BinaryHeap is not panic-safe. The binary heap is left in an inconsistent state when the comparison of generic elements inside sift_up or sift_down_range panics. This bug leads to a drop of zeroed memory as an arbitrary type, which can result in a memory safety violation.

CVE-2015-20001 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
collections: Make BinaryHeap panic safe in sift_up / sift_down by bluss · Pull Request #25856 · rust-lang/rust · GitHub	github.com text/html	MISC github.com/rust-lang/rust/pull/25856
BinaryHeap is not exception safe · Issue #25842 · rust-lang/rust · GitHub	github.com	MISC nithub.com/rust-

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Rust-lang	Rust	All	All	All	All

```
cpe:2.3:a:rust-lang:rust:*:*:*:*:*:*:
```

No vendor comments have been submitted for this CVE

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