

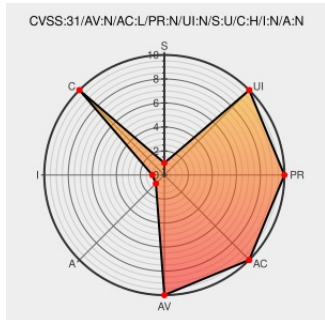


# CVE-2019-25005

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## CVE-2019-25005

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

Certain versions of [Chacha20](#) from [Chacha20 Project](#) contain the following vulnerability:

An issue was discovered in the chacha20 crate before 0.2.3 for Rust. A ChaCha20 counter overflow makes it easier for attackers to determine plaintext.

CVE-2019-25005 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    |
|------------------|------------------------|---------------------|---------------------|
| <b>NETWORK</b>   | <b>LOW</b>             | <b>NONE</b>         | <b>NONE</b>         |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>NONE</b>         | <b>NONE</b>         |

CVSS2 Score: **5 - MEDIUM**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>NETWORK</b>         | <b>LOW</b>        | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>PARTIAL</b>         | <b>NONE</b>       | <b>NONE</b>         |

## CVE References

| Description                               | Tags                                                                                             | Link                                                                                                                   |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| About RustSec › RustSec Advisory Database | <a href="#">Third Party Advisory</a><br><a href="#">rustsec.org</a><br><a href="#">text/html</a> | <a href="https://rustsec.org/advisories/RUSTSEC-2019-0029.html">MISC rustsec.org/advisories/RUSTSEC-2019-0029.html</a> |

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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                                           | <a href="#">Chacha20 Project</a> | <a href="#">Chacha20</a> | All     | All    | All     | All      |
| Application                                           | <a href="#">Chacha20 Project</a> | <a href="#">Chacha20</a> | All     | All    | All     | All      |
| cpe:2.3:a:chacha20_project:chacha20:*:*:*:*:rust:*:*: |                                  |                          |         |        |         |          |
| cpe:2.3:a:chacha20_project:chacha20:*:*:*:*:rust:*:*: |                                  |                          |         |        |         |          |

No vendor comments have been submitted for this CVE

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