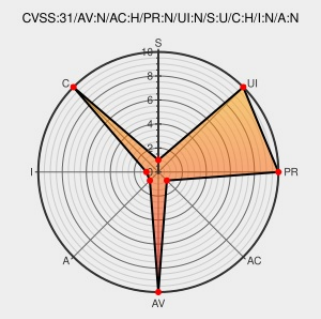
# CVE-2021-37588

Published on: 07/27/2021 12:00:00 AM UTC

Last Modified on: 08/09/2021 06:35:00 PM UTC

## CVE-2021-37588

Source: Mitre | Source: Nist | Print: PDF




Certain versions of Charm from Jhu contain the following vulnerability:

In Charm 0.43, any two users can collude to achieve the ability to decrypt YCT14 data.

CVE-2021-37588 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

### CVSS3 Score: 5.9 - MEDIUM

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

### CVSS2 Score: 4.3 - MEDIUM

| Access Vector | Access Complexity | Authentication |
|---|---|---|
| NETWORK | MEDIUM | NONE |
| **Confidentiality Impact** | **Integrity Impact** | **Availability Impact** |
| PARTIAL | NONE | NONE |

### CVE References

| Description | Tags | Link |
|---|---|---|
| | www2.hci.uni-hannover.de<br>application/pdf | MISC www2.hci.uni-hannover.de/papers/Tan2019.pdf |
| No Description Provided | eprint.iacr.org<br>text/html | MISC eprint.iacr.org/2020/460 |

| | | |
|---|---|---|
| Broken schemes in last release · Issue #276 · JHUISI/charm · GitHub | github.com text/html | MISC github.com/JHUISI/charm/issues/276 |
| charm/abenc_yct14.py at dev · JHUISI/charm · GitHub | github.com text/html | MISC github.com/JHUISI/charm/blob/dev/charm/schemes/abenc/abenc_yct14.py |

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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 | Jhu | Charm | 0.43 | All | All | All |

cpe:2.3:a:jhu:charm:0.43:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

## Social Mentions

| Source | Title | Posted (UTC) |
|---|---|---|
| @CVEreport | CVE-2021-37588 : In Charm 0.43, any two users can collude to achieve the ability to decrypt YCT14 data.... cve.report/CVE-2021-37588 | 2021-07-27 23:42:36 |

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