



# CVE-2018-7638

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## CVE-2018-7638

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

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

An issue was discovered in Cimg v.220. A heap-based buffer over-read in load\_bmp in Cimg.h occurs when loading a crafted bmp image, a different vulnerability than CVE-2018-7588. This is in a "256 colors" case, aka case 8.

CVE-2018-7638 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.8 - HIGH**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>LOCAL</b>     | <b>LOW</b>             | <b>NONE</b>         | <b>REQUIRED</b>     |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **6.8 - MEDIUM**

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

## CVE References

| Description                                  | Tags                                                          | Link                                                                                              |
|----------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| [SECURITY] [DLA 1934-1] cimg security update | <a href="#">lists.debian.org</a><br><a href="#">text/html</a> | <a href="#">MLIST [debian-lts-announce] 20190928 [SECURITY] [DLA 1934-1] cimg security update</a> |
| [SECURITY] [DLA 2421-1] cimg security update | <a href="#">lists.debian.org</a><br><a href="#">text/html</a> | <a href="#">MLIST [debian-lts-announce] 20201030 [SECURITY] [DLA 2421-1] cimg security update</a> |

other testcases lead to heap overflow by loading crafted images · Issue #185 · dtschump/CImg · GitHub

MISC [github.com/dtschump/CImg/issues/185](https://github.com/dtschump/CImg/issues/185)

## Exploit

### Third Party Advisory

[github.com](https://github.com)

text/html

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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                         | Cimg   | Cimg    | .220    | All    | All     | All      |
| Application                         | Cimg   | Cimg    | .220    | All    | All     | All      |
| cpe:2.3:a:cimg:cimg:.220:*:*:*:*:*: |        |         |         |        |         |          |
| cpe:2.3:a:cimg:cimg:.220:*:*:*:*:*: |        |         |         |        |         |          |

No vendor comments have been submitted for this CVE

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