

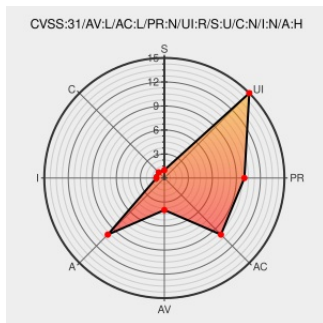


# CVE-2019-20051

Published on: 12/27/2019 12:00:00 AM UTC

Last Modified on: 01/20/2023 04:21:00 PM UTC

## CVE-2019-20051

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

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

A floating-point exception was discovered in `PackLinuxElf::elf_hash` in `p_lx_elf.cpp` in `UPX 3.95`. The vulnerability causes an application crash, which leads to denial of service.

CVE-2019-20051 has been assigned by [M](#) [cve@mitre.org](mailto:cve@mitre.org) to track the vulnerability - currently rated as **MEDIUM** severity.

CVSS3 Score: **5.5 - MEDIUM**

| 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>NONE</b>            | <b>NONE</b>         | <b>HIGH</b>         |

CVSS2 Score: **4.3 - MEDIUM**

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

## CVE References

| Description                                                                            | Tags                                                                 | Link                                          |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|
| [SECURITY] Fedora 31 Update: upx-3.96-2.fc31 - package-announce - Fedora Mailing-Lists | <a href="#">lists.fedoraproject.org</a><br><a href="#">text/html</a> | <a href="#">FEDORA FEDORA-2020-67590fbf08</a> |
| [SECURITY] Fedora 30 Update: upx-3.96-1.fc30 - package-announce - Fedora Mailing-Lists | <a href="#">lists.fedoraproject.org</a><br><a href="#">text/html</a> | <a href="#">FEDORA FEDORA-2020-20cf0743f5</a> |

Floating-point exception abort (DoS) in PackLinuxElf::elf\_hash() of  
p\_lx\_elf.cpp:4569 · Issue #313 · upx/upx · GitHub

Exploit

Issue Tracking

Third Party Advisory

github.com

text/html

MISC

github.com/upx/upx/issues/313

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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 |
|----------------------------------------------|-------------------------------|------------------------|---------|--------|---------|----------|
| Operating System                             | <a href="#">Fedoraproject</a> | <a href="#">Fedora</a> | 30      | All    | All     | All      |
| Operating System                             | <a href="#">Fedoraproject</a> | <a href="#">Fedora</a> | 31      | All    | All     | All      |
| Application                                  | <a href="#">Upx Project</a>   | <a href="#">Upx</a>    | 3.95    | All    | All     | All      |
| Application                                  | <a href="#">Upx Project</a>   | <a href="#">Upx</a>    | 3.95    | All    | All     | All      |
| cpe:2.3:o:fedoraproject:fedora:30:*:*:*:*:*: |                               |                        |         |        |         |          |
| cpe:2.3:o:fedoraproject:fedora:31:*:*:*:*:*: |                               |                        |         |        |         |          |
| cpe:2.3:a:upx_project:upx:3.95:*:*:*:*:*:    |                               |                        |         |        |         |          |
| cpe:2.3:a:upx_project:upx:3.95:*:*:*:*:*:    |                               |                        |         |        |         |          |

No vendor comments have been submitted for this CVE

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