

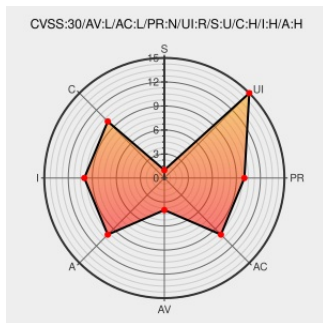


# CVE-2017-12453

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## CVE-2017-12453

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

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

The `_bfd_vms_slurp_eem` function in `libbfd.c` in the Binary File Descriptor (BFD) library (aka `libbfd`), as distributed in GNU Binutils 2.29 and earlier, allows remote attackers to cause an out of bounds heap read via a crafted vms alpha file.

CVE-2017-12453 has been assigned by [M](#) [cve@mitre.org](mailto: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    |
|---------------|------------------------|---------------------|---------------------|
| LOCAL         | LOW                    | NONE                | REQUIRED            |
| Scope         | Confidentiality Impact | Integrity Impact    | Availability Impact |
| UNCHANGED     | HIGH                   | HIGH                | HIGH                |

CVSS2 Score: **6.8 - MEDIUM**

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

## CVE References

| Description                                       | Tags                                                                                                                                                           | Link                                                                                                                   |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 21813 – Additional undefined behavior and crashes | <a href="#">Issue Tracking</a><br><a href="#">Patch</a><br><a href="#">Third Party Advisory</a><br><a href="#">sourceware.org</a><br><a href="#">text/html</a> | <a href="https://sourceware.org/bugzilla/show_bug.cgi?id=21813">MISC sourceware.org/bugzilla/show_bug.cgi?id=21813</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="#">Gnu</a> | <a href="#">Binutils</a> | All     | All    | All     | All      |
| cpe:2.3:a:gnu:binutils:*:*:*:*:*: |                     |                          |         |        |         |          |

No vendor comments have been submitted for this CVE

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