



# HDF5 H5Fint.c H5F\_\_addr\_encode\_\_len heap-based overflow

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#) 

## Summary

<b>CVE</b>	CVE-2025-2923
<b>State</b>	PUBLISHED
<b>Assigner</b>	VulDB
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2025-03-28 19:15:24 UTC
<b>Updated</b>	2026-04-29 01:00:01 UTC
<b>Description</b>	A vulnerability, which was classified as problematic, has been found in HDF5 up to 1.14.6. Affected by this issue is the func

## Risk And Classification

**Primary CVSS:** v4.0 1.9 LOW from cna@vulldb.com

CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

**Problem Types:** CWE-119 | CWE-122 | CWE-787 | CWE-122 Heap-based Buffer Overflow | CWE-119 Memory Corruption

Version	Source	Type	Score	Severity	Vector
4.0	cna@vulldb.com	Secondary	1.9	LOW	CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P/C...
4.0	CNA	DECLARED	4.8	MEDIUM	CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P
3.1	cna@vulldb.com	Secondary	3.3	LOW	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L
3.1	CNA	DECLARED	3.3	LOW	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L/E:P/RL:X/RC:R
3.0	CNA	DECLARED	3.3	LOW	CVSS:3.0/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L/E:P/RL:X/RC:R
2.0	cna@vulldb.com	Secondary	1.7		AV:L/AC:L/Au:S/C:N/I:N/A:P
2.0	CNA	DECLARED	1.7		AV:L/AC:L/Au:S/C:N/I:N/A:P/E:POC/RL:ND/RC:UR

## CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

Attack Requirements

None

Privileges Required

Low

User Interaction

None

Confidentiality

None

Integrity

None

Availability

Low

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MS:C:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

None

Availability

Low

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L

CVSS v3.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

None

Availability

Low

CVSS:3.0/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:L/E:P/RL:X/RC:R

### NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Hdfgroup	Hdf5	All	All	All	All

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	HDF5	affected 1.14.0	Not specified
CNA	Na	HDF5	affected 1.14.1	Not specified
CNA	Na	HDF5	affected 1.14.2	Not specified
CNA	Na	HDF5	affected 1.14.3	Not specified
CNA	Na	HDF5	affected 1.14.4	Not specified
CNA	Na	HDF5	affected 1.14.5	Not specified
CNA	Na	HDF5	affected 1.14.6	Not specified

### References

Reference	Source	Link	Tags
vuldb.com	cna@vuldb.com	<a href="#">vuldb.com</a>	Permissions Required, VDB Entry
vuldb.com	cna@vuldb.com	<a href="#">vuldb.com</a>	Third Party Advisory, VDB Entry
github.com/HDFGroup/hdf5/issues/5381	cna@vuldb.com	<a href="#">github.com</a>	Exploit, Issue Tracking, Vendor Advisory
vuldb.com	cna@vuldb.com	<a href="#">vuldb.com</a>	Third Party Advisory, VDB Entry
CVE Program record	CVE.ORG	<a href="#">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="#">nvd.nist.gov</a>	canonical, analysis

## Vendor Comments And Credit

### Discovery Credit

**CNA:** Chen Lihai (en)

## Additional Advisory Data

Source	Time	Event
CNA	2025-03-28T00:00:00.000Z	Advisory disclosed
CNA	2025-03-28T01:00:00.000Z	VulDB entry created
CNA	2025-07-24T11:44:56.000Z	VulDB entry last update

There are currently no legacy QID mappings associated with this CVE.

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