

## Security Bulletin

# Multiple vulnerabilities in HDFgroup

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## List of changes

Version	Date	Description
0.1	2025/09/26	Initial Eviden version

## Executive summary

### CVE-2025-6269

A vulnerability classified as critical was found in HDF5 up to 1.14.6. Affected by this vulnerability is the function `H5C__reconstruct_cache_entry` of the file `H5Cimage.c`. The manipulation leads to heap-based buffer overflow. Attacking locally is a requirement. The exploit has been disclosed to the public and may be used.

### CVE-2025-6270

A vulnerability, which was classified as critical, has been found in HDF5 up to 1.14.6. Affected by this issue is the function `H5FS__sect_find_node` of the file `H5FSsection.c`. The manipulation leads to heap-based buffer overflow. It is possible to launch the attack on the local host. The exploit has been disclosed to the public and may be used.

### CVE-2025-6750

A vulnerability, which was classified as problematic, has been found in HDF5 1.14.6. Affected by this issue is the function `H5O__mtime_new_encode` of the file `src/H5Omtime.c`. The manipulation leads to heap-based buffer overflow. Attacking locally is a requirement. The exploit has been disclosed to the public and may be used.

### CVE-2025-6816

A vulnerability classified as problematic was found in HDF5 1.14.6. This vulnerability affects the function `H5O__fsinfo_encode` of the file `/src/H5Ofsinfo.c`. The manipulation leads to heap-based buffer overflow. It is possible to launch the attack on the local host. The exploit has been disclosed to the public and may be used.

### CVE-2025-6817

A vulnerability, which was classified as problematic, has been found in HDF5 1.14.6. This issue affects the function `H5C__load_entry` of the file `/src/H5Centry.c`. The manipulation leads to resource consumption. The attack needs to be approached locally. The exploit has been disclosed to the public and may be used.

## Vulnerability Info

CVE No.	CVSS Score	Type of Vulnerability
CVE-2025-6269	4.8	CWE-122 - Heap-based Buffer Overflow
CVE-2025-6270	4.8	CWE-122 - Heap-based Buffer Overflow
CVE-2025-6750	4.8	CWE-119 - Improper Restriction of Operations within the Bounds of a Memory Buffer

CVE-2025-6816	4.8	CWE-122 - Heap-based Buffer Overflow
CVE-2025-6817	4.8	CWE-404 - Improper Resource Shutdown or Release

Eviden is investigating the exact nature of these vulnerabilities to provide validated remediation.

## Affected Components

Products	Fixed version	Status	Comments
HDF5	up to 1.14.6	Fixed	

Although Eviden tries to provide accurate and complete information, Eviden shall not be liable if the above table is incomplete or erroneous. During its vulnerability analysis process, the information in this document is subject to change without notice to reflect new results of this analysis.

TBD (to be defined) indicates that a new version fixing the vulnerabilities is under study.

Unpatched means that the vulnerability is presumably present, but there is no plan to provide a fix. This can be investigated on demand.

## List of HPC Management products

Products	Fixed version	Status	Remaining vulnerabilities
SLURM	2.18	Fixed	Vulnerability fixed with Slurm 2.18, but older versions are still potentially affected.

## Recommendations

Eviden recommends applying its Technical States upgrade on its servers as soon as they are made available.

## Available Vendor Patches

No validated patch is available at the time. Eviden is working with its suppliers to distribute updates as soon as possible.

## Available Workarounds

No workaround is available.

## Available Mitigations

No mitigation identified.

## Available Exploits/PoC

Eviden is not aware of any exploitation of the reported vulnerabilities.

## References

1. <https://vuldb.com/?id.313273>
2. <https://github.com/HDFGroup/hdf5/issues/5580>
3. <https://vuldb.com/?submit.592587>
4. <https://nvd.nist.gov/vuln/detail/CVE-2025-6269>
5. <https://nvd.nist.gov/vuln/detail/CVE-2025-6270>
6. <https://access.redhat.com/security/cve/CVE-2025-6750>
7. <https://access.redhat.com/security/cve/CVE-2025-6816>
8. <https://access.redhat.com/security/cve/CVE-2025-6817>
9. <https://nvd.nist.gov/vuln/detail/CVE-2025-6750>
10. <https://nvd.nist.gov/vuln/detail/CVE-2025-6816>
11. <https://nvd.nist.gov/vuln/detail/CVE-2025-6817>
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## Glossary of terms

Term	Description
Mitigation	Refers to a setting, common configuration, or general best-practice, existing in a default state that could reduce the severity of exploitation of a vulnerability
Neutralization	The neutralization phase is the decision-making process during which the risk posed by an incident is evaluated.
PoC	Proof of Concept
Remediation	The remediation phase ends with the delivering of a qualified solution/update fixing the vulnerability without regression.
TI	Threat Intelligence
TLP	Traffic Light Protocol (TLP) FIRST Standards Definitions and Usage Guidance — Version 2.0. <a href="https://www.first.org/tlp/">https://www.first.org/tlp/</a>
Workaround	Refers to a setting or configuration change that does not correct the underlying vulnerability but would help block known attack vectors before you apply the update

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