



# OpenEXR: Shift exponent overflow in `readVariableLengthInteger()` (`ImfIDManifest.cpp`)

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

## Summary

<b>CVE</b>	CVE-2026-42217
<b>State</b>	PUBLISHED
<b>Assigner</b>	GitHub_M
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-05-07 04:16:34 UTC
<b>Updated</b>	2026-05-08 17:01:46 UTC
<b>Description</b>	OpenEXR provides the specification and reference implementation of the EXR file format, an image storage format for the r

## Risk And Classification

**Primary CVSS:** v4.0 6.3 MEDIUM from security-advisories@github.com

CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/SI:N/SA:N/E:X/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

**EPSS:** 0.000400000 probability, percentile 0.119580000 (date 2026-05-12)

**Problem Types:** CWE-190 | CWE-190 CWE-190: Integer Overflow or Wraparound

Version	Source	Type	Score	Severity	Vector
4.0	security-advisories@github.com	Secondary	6.3	MEDIUM	CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N
4.0	CNA	DECLARED	6.3	MEDIUM	CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N
3.1	nvd@nist.gov	Primary	9.8	CRITICAL	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

## CVSS v4.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Attack Requirements

Present

Privileges Required

None

User Interaction

None

Confidentiality

Low

Integrity

None

Availability

None

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:L/VI:N/VA:N/SC:N/SI:N/SA:N/E:X/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

### CVSS v3.1 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

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

### NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Openexr	Openexr	All	All	All	All

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CVE	Openexr	Openexr	1.0.0 - 1.0.0	All

CNA	<a href="#">AcademySoftwareFoundation</a>	<a href="#">Openexr</a>	affected >= 3.0.0, < 3.2.9	Not specified
CNA	<a href="#">AcademySoftwareFoundation</a>	<a href="#">Openexr</a>	affected >= 3.3.0, < 3.3.11	Not specified
CNA	<a href="#">AcademySoftwareFoundation</a>	<a href="#">Openexr</a>	affected >= 3.4.0, < 3.4.11	Not specified

## References

Reference	Source	Link	Tag
<a href="https://github.com/AcademySoftwareFoundation/openexr/security/advisories/GHSA-3c...">github.com/AcademySoftwareFoundation/openexr/security/advisories/GHSA-3c...</a>	security-advisories@github.com	<a href="#">github.com</a>	Explo
<a href="https://github.com/AcademySoftwareFoundation/openexr/commit/21eaa33bcbbb0c83a5fc...">github.com/AcademySoftwareFoundation/openexr/commit/21eaa33bcbbb0c83a5fc...</a>	security-advisories@github.com	<a href="#">github.com</a>	Patc
<a href="https://github.com/AcademySoftwareFoundation/openexr/pull/2378">github.com/AcademySoftwareFoundation/openexr/pull/2378</a>	security-advisories@github.com	<a href="#">github.com</a>	Issu
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canc
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	canc

No vendor comments have been submitted for this CVE.

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

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